WASHINGTON SUBURBAN SANITARY COMMISSION

AGENDA
REGULAR MEETING
WEDNESDAY, SEPTEMBER 17, 2025

ITEM	TIME

Call to Order - 10:00 AM

Pledge of Allegiance

Mission/Vision Statements

1. **Approval of Agenda**
   Vote

2. **Approval of Minutes**
   Vote
   A. **July 16, 2025 Open Session Minutes**
      Vote

3. **Retirees**

4. **Commissioner's Comments**

5. **Public Comments**

6. **Office of the Inspector General (OIG)**
   A. **OIG Monthly Activity Report** 10:30 AM
      Information
      9.8.25_OIG JULYAUG Summary of Activities for SEPT 2025 Mtg-Final.pdf

7. **Corporate Secretary**
   A. **Monthly Report**
      CS Report September

8. **Ethics Office**
   A. **Ethics Program Monthly Report** 10:35 AM
      Ethics Monthly Update - August 2025
      Ethics Monthly Update - September 2025

9. **General Manager's Office**

A. **Monthly Report** 10:45 AM
Information
September 2025 Commission Performance Report

B. **Ratification of Emergency - 108 Inch Sewer Pipe Break**
Vote
2025-2402 108 In Sewer Pipe Emergency Ratification

10. **Contracts**

A. **70572, Western Branch WRRF Raw Influent Building Variable Frequency Drive Climate Control (E&C)**
Vote
70572 Western Branch WRRF Raw Influent Building

B. **67587, Bock Road Transmission Water Main Replacement and Browns Lane Pressure Reducing Valve Replacement (E&C)** 11:15 AM
Vote
67587 Bock Road Transmission WMR and Browns Lane Pressure Reducing Valve

C. **65561, Thurston Drive Water Main Replacement (E&C)**
Vote
65561 Thurston Drive WMR

D. **63561, Rolling Acres Water Main Replacement (E&C)**
Vote
63561 Rolling Acres WMR

E. **65574, Larkwood Avenue Water Main Replacement (E&C)**
Vote
65574 Larkwood Ave WMR

F. **65556, Alexandria Drive Water Main Replacement (E&C)**
Vote
65556 Alexandria Drive WMR

G. **64561, Hillcrest Heights Sewer Rehabilitation (E&C)**
Vote
64561 Hillcrest Heights Sewer Rehab

H. **48551-106, Hyattsville Road Sewer Rehabilitation (E&C)**
Vote
48551-106 Hyattsville Sewer Rehab

I. **64563, University Park Sewer Rehabilitation (E&C)**
Vote
64563 University Park Sewer Rehab

J. **64562, Oxon Run Hills Sewer Rehabilitation (E&C)**
Vote
64562 Oxon Run Hills Sewer Rehab

K. **64564, Hyattsville Road Sewer Rehabilitation (E&C)**
Vote
64564 Hyattsville Road Sewer Rehab

L. **48551-113, Suitland Road Sewer Rehabilitation (E&C)**
Vote
48551-113 Suitland Road Sewer Rehab

M. **48551-105, Mount Rainier Sewer Rehabilitation (E&C)**
Vote
48551-105 Mt. Rainier Sewer Rehab

N. **29156, Option Term No. 1, Replacement Planning Basic Ordering Agreement (E&C)**
Vote
29156 OT1 Replacement Planning BOA

O. **48133, Change Order No. 1, Pipeline Design Division Basic Ordering Agreement (E&C)**
Vote
48133 CO1 Pipeline Design Division BOA

P. **29231, Option Term No. 1, Wastewater Engineering Services (Util. Serv.)**
Vote
29231 OT1 Wastewater Engineering Services

Q. **29455, Change Order No. 4, Cleaning and Restoration Services (GCO)**
Vote
29455 CO4 Cleaning and Restoration Services

R. **47494, Change Order No. 4, Automotive Body Shop Repair, Products, and Services for GVW Under 15,000 (Gen. Serv.)**
Vote
47494 CO4 Auto Body Shop Repair Products and Services

S. **16363, Change Order No. 6, Furnishing and Delivering of No. 57 Stone (Gen. Serv.)**
Vote
16363 CO6 Furnish and Deliver 57 Stone

T. **66581, Energy Management Services (Gen. Serv.)**
Vote
66581 Energy Mgmt Services

U. **77570, Regular Cab and Chassis (Gen. Serv.)**
Vote
77570 Regular Cab and Chassis

V. **47795, Change Order No. 4, Temple Hills Depot Renovation, (Gen. Serv.)**
Vote
47795 CO4 Temple Hills Depot Reno

W. **158522, Change Order No. 5, Subscriber Radios - Motorola Solution (IT)**
Vote
158522 CO5 Subscriber Radios

X. **47602, Option Term 2, Professional Security Guard Services (P&HS)**
Vote
47602 OT2 Professional Security Guard Services

Y. **70601, Methanol (Prod.)**
Vote
70601 Methanol

11. **Finance**

A. **2026 Front Foot Benefit Rates & House Connection Charges Schedule** 12:30 PM
Vote

FFB HC Schedule to Approve Rates
Front Foot Benefits Date Recommendation

B. Approval and Transmission of Proposed Capital Improvements Program for Fiscal Years 2027-2032
Vote
Transmittal of the FY2027-2032 CIP Budget

12. Customer Service

A. Customer Service Performance Indicators 12:45 PM
Information
Customer Service Performance Sept
Customer Service Metrics Report for Sep 2025

13. Utility Services

A. Smart Meter Pilot Program Update 1:00 PM
Information
Meter Infrastructure Replacement Update Sept

14. Engineering & Construction

A. Chapter 14.25 Plumbing & Fuel Gas Code Amendments 1:!5 PM
Information
Plumbing Fuel Gas Code Presentation
Cover sheet for package to Commissioners
Summary of revisions 2024 WSSC Plumbing and Fuel Gas Code for Commissioners
2024 WSSC Plumbing and Fuel Gas Code Draft - For Commissioners
Legal Review of Regulation (Draft 2024 WSSC Code)

15. Intergovernmental Relations

A. 2026 State Legislative Priorities 1:30 PM
Information
2026 Legislative Proposals Sept

16. Commission Office

A. Resolution 2025-2403 Appointment of Board of Ethics Member 1:45 PM
Vote
Commission Summary
Resolution 2025-2403

B. Audit Committee Report
Information

C. Amendment to July 17, 2024 Minutes
Vote
Memo re Minute Amendment

D. Employees' Retirement Board of Trustees
Information

E. Deferred Compensation Investment Committee
Information

F. Committee Assignments
Information

G. Recognition of Commissioner Fausto Bayonet

Information

17. Adjournment of Open Session
Vote

18. CLOSED SESSION
Closed pursuant to Maryland Code Annotated, General Provisions Article, Title 3, Open Meetings Act, Subtitle 3, Open Meetings Requirements - Closed Sessions: Section 3-305(b)(13) to approve the July 16, 2025 Closed Session Minutes; Section 2-205(b)(1) to discuss a personnel matter for an individual over whom the Commission has jurisdiction; Section 3-305(b)(7) to receive legal advice from counsel on a specific topic; and Section 3-305(b)(8) to discuss pending and potential litigation with counsel and staff.

Future Meetings / Events of Note

September 24, 2025 - Employees Retirement Board of Trustees, 2:00 PM
October 8, 2025 - WSSC Board of Ethics Meeting, 1:00 PM
October 13, 2025 - Indigenous Peoples' Day/Columbus Day (WSSC Offices Closed)
October 15, 2025 - WSSC Monthly Commission Meeting, 10:00 AM
see wsscwater.com/events for more information

WSSCWATER
DELIVERING THE ESSENTIAL

Summary of Activities Report

Office of the Inspector General

Jon T. Rymer, Inspector General

September 17, 2025

Agenda

- OIG Audit Activities Dashboard
- Management Action Plans Dashboard
- Audit Finding Risk Categories
- System Development Charges Audits Status
- Fraud, Waste and Abuse Training
- Community Activities
- Q&A

Affordability & Financial Viability
Optimizing Operations

OIG Audit Activities

Planning

- Gain an understanding
- Develop the steps to achieve the audit objective

Fieldwork

- Testing/Verification
- Identify exceptions/findings

Reporting

- Compose draft report
- OIG management review
- Management review and discussion

OIG Audit Activities

Planning

- WSSC Benchmark Study
- I.T. Physical & Environmental Security Audit
- Professional Licensure and Certification Compliance Audit
- Police Division Safety and Training Audit
- The FY 2023 DC Water – Blue Plains O&M Billing Audit
- The FY 2023 Multi-Jurisdictional Use Facility (MJUF)

Fieldwork

- Contract Close-out
- The FY 2020 Multi-Jurisdictional Use Facility (MJUF)
- The FY 2021 Multi-Jurisdictional Use Facility (MJUF)
- The FY 2022 DC Water – Blue Plains O&M Billing Audit
- The FY 2022 Multi-Jurisdictional Use Facility (MJUF)

Reporting

- The FY 2020 DC Water – Blue Plains O&M Billing Audit
- The FY 2021 DC Water – Blue Plains O&M Billing Audit
- Customer Service (High Bill/Water Leaks) Audit
- NIST Cybersecurity Framework

Totals: Planning- 6, Fieldwork- 5, and Reporting- 4

Management Action Plans Dashboard

2-Months Ending August 31, 2025			
Department	Corrective Actions		
	Implemented Pending OIG Verification	Open	Total
Utility Services Department		1	1
Finance Department		2	2
Human Resources Office	1	5*	6
Customer Services Department		1*	1
Information Technology Team		3*	3
TOTAL	1	12	13

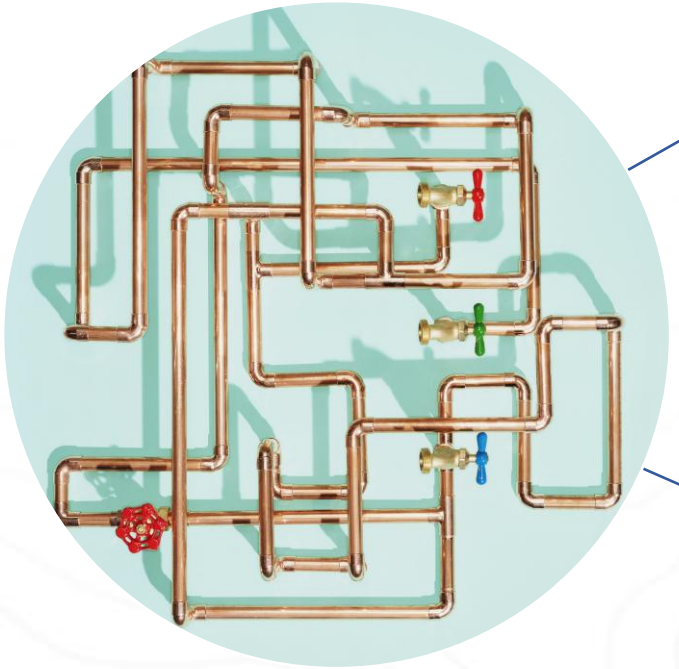
*Footnote: There are six (6) **High-Rated Open Action** Items. The IT Team owns three, the Human Resources Department owns two, and the Customer Service Department owns one high-rated item.

Audit Finding Risk Categories

RISK CATEGORIES	DESCRIPTION
HIGH	Critical control weaknesses (i.e., exceptions to regulations, policies, procedures and/or rules).
MEDIUM	Control deficiencies which impair the Commission's ability to initiate, authorize, record, process, or report data.
LOW	Less significant efficiency and effectiveness control enhancement matters which are captured in management memorandums.
Note: Categorization is subject to auditor judgment and other contributing factors.	

Asset Management and Infrastructure Reliability

System Development Charges Audits Status



In Progress

- Smith Home Farm, Pt. 1F
- Calm Retreat

Inactive

- Westphalia Town Center, Pt. 1A
- Pulte Homes

Workforce Development & Culture

Fraud, Waste and Abuse Training

The OIG provided Fraud, Waste and Abuse (FWA) virtual training to 13 new WSSC employees in July and 16 new employees in August 2025, to familiarize them with FWA protocols as part of the new employee orientation process.

FWA Hotline: (877) 842-6823
Online: www.reportlineweb.com/wssc

Community Activities

The OIG staff donated school supplies to the School Supply Drive in August 2025, to support Team H2O Gives Back.

WSSCWATER
DELIVERING THE ESSENTIAL

Questions?

Washington Suburban Sanitary Commission
Office of the Commission

Report of the Corporate Secretary
July 9, 2025 – September 10

Key Metrics:

- **Customer Refund Hearings**
- **Customer Calls/Emails & Resolutions**

Refund Hearings.

The July refund decisions were issued and one additional hearing was conducted on September 9. That decision is being drafted.

Current numbers including requests filed through September 3:

- 4 pending request *(7 in July)*
  - 0 are 6 months or older *(0 in July);*
    - Oldest request received March 20, 2025, and was heard on Sept. 9.
  - 1 new request opened since last report;
  - 4 requests scheduled for October 1.
- Total refund amount requested: $25,736.48 *($47,945.27 in July)*

Customer Calls/Emails

Since the last Commission meeting, the office received the following inquiries from customers:

- Phone calls: 1
- Emails: 3
- Letters: 0
- Total: 4

By County:

- Montgomery: 1
- Prince George's: 2
- NA: 1

Note, these call numbers don't include the simple, trying to find the right departments' phone number style calls.

Ethics Program Update – July 2025

Board of Ethics Meeting held on 7/9/2025

- 3 Open Session Items
- 11 Closed Session Items

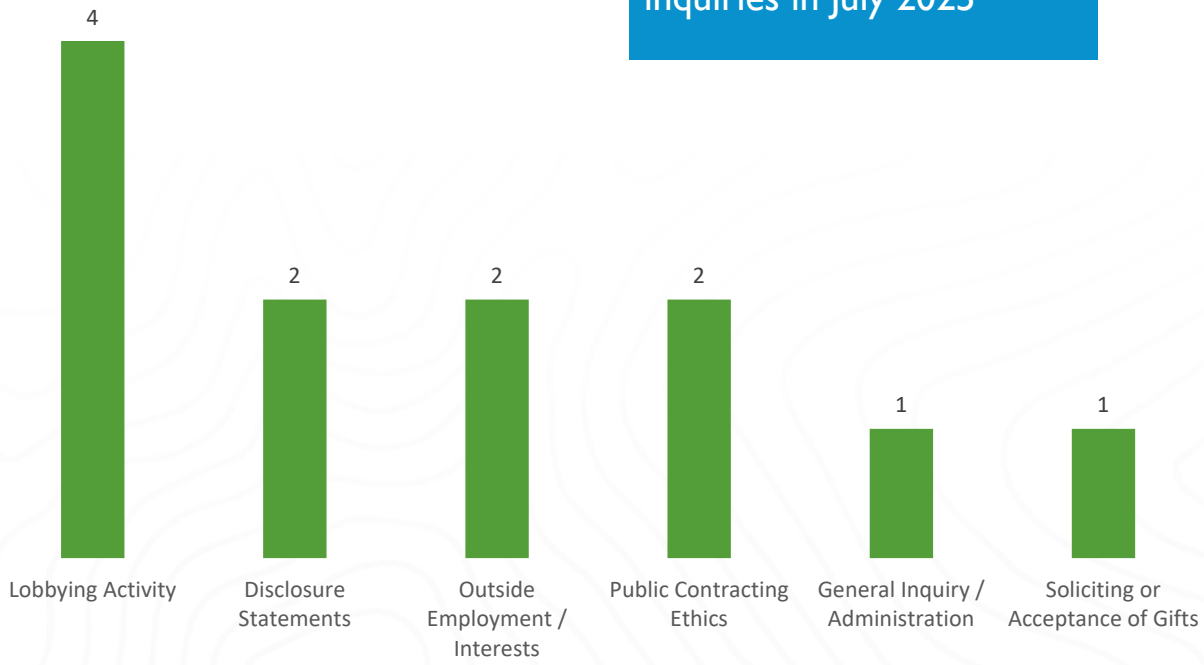
Ethics Training given on 7/7/2025

- 5 new employees received live Ethics training as part of the onboarding process

Guidance

#EthicsQuestions, phone, walk-ins, etc.

The Ethics Office provided guidance on a total of 12 inquiries in July 2025



Ethics Program Update – August 2025

Board of Ethics Meeting held on 8/13/2025

- 3 Open Session Items
- 10 Closed Session Items

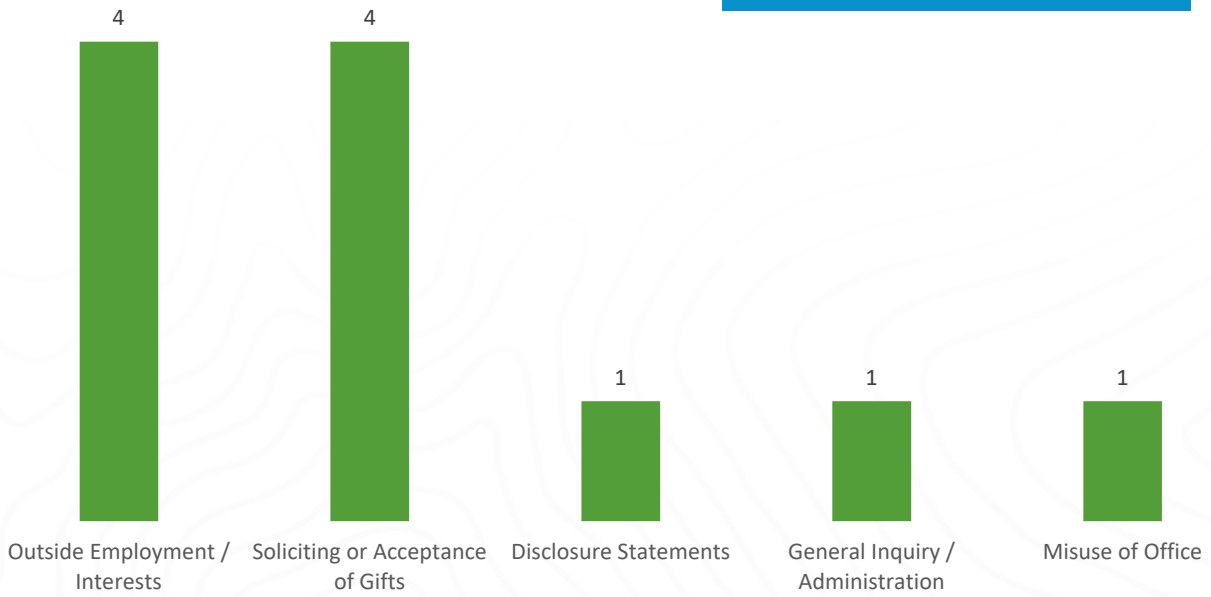
Ethics Training given on 8/4 & 8/18/2025

- 17 new employees received live Ethics training as part of the onboarding process

Guidance

#EthicsQuestions, phone, walk-ins, etc.

The Ethics Office provided guidance on a total of 11 inquiries in August 2025



WSSC Water Commission Performance Report Sep 2025

This report tracks WSSC Water's progress towards achieving the Strategic Plan adopted by the Commissioners. In support of the core value of accountability, the Key Performance Indicators (KPIs) are presented for our Mission. This report is produced on a monthly basis, and each KPI reflects the most recently available data. This month we highlight the following:

• **Estimated Bills:** As of September 1st, 2025, WSSC Water had a total of **2,342** consecutive estimated bills. This is a 3.2% decrease from the previous month's total of 2,420 total estimated bills.

• **Accounts Billed On-Time:** As of September 1st, 2025, WSSC Water had billed **100.00%** of accounts on-time.

• **Average Answer Speed:** As of September 1st, 2025, WSSC Water had an average answer speed of **4.7 minutes**. This is a 62.1% increase from the previous month's average of 2.9 minutes. WSSC Water strives to have an average wait time of 4 minutes or below, this month's average exceeded the threshold by 0.7 minutes.

• **Past Due Amounts and Accounts:** As of September 1st, 2025, WSSC Water had **85,388** past due accounts totaling **$59 million**. The $59 million past due reflects a $4M increase from July 2025 ($55M). Residential premises account for 73% of the delinquencies with 80,697 past due accounts totaling $43M.

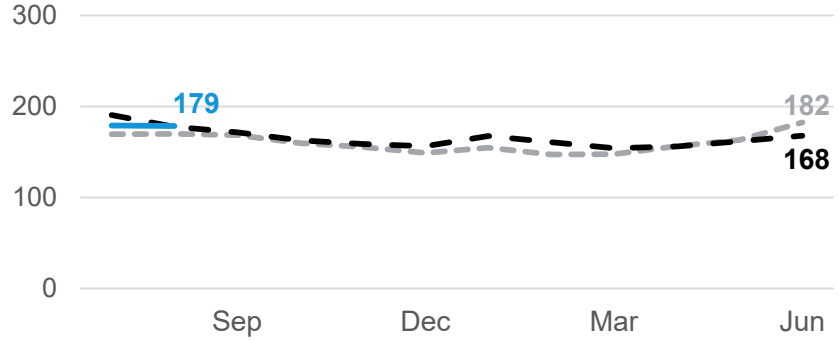
As requested by the Commision:
• Vacant Senior Management Position(s): There is 1 vacant senior management position. General Services Director (posted on 9/3/2025).
• Incorporated additional data from FY24, along with turn-on and turn-off information for FY26.

This year (FY26)
Last year (FY25)
FY24

Provide Safe and Reliable Water

Water Production

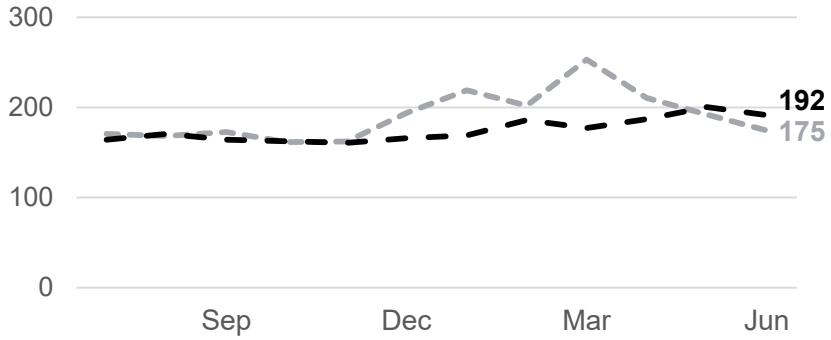
average gallons of water produced, in millions per day



Return Clean Water to Our Environment

Wastewater Treatment

average gallons of wastewater treated, in millions per day

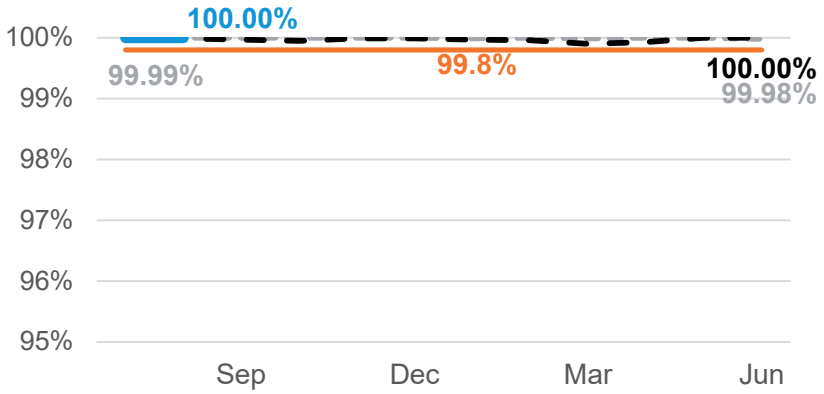


This year (FY26)
Projected target
Last year (FY25) FY24

Deliver Safe, Reliable and Consistent Service

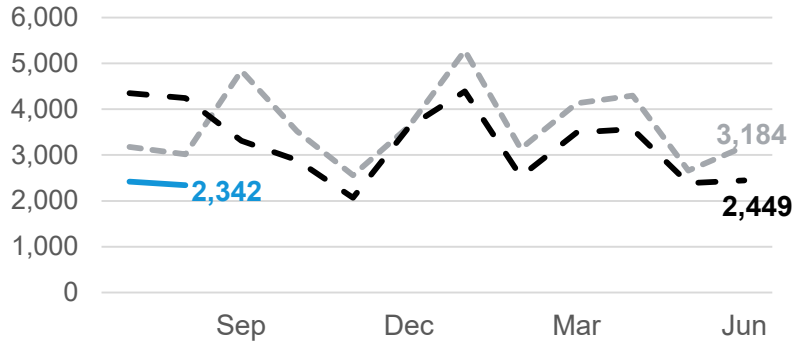
Accounts Billed On-Time

% of accounts billed on-time, within 15 calendar days after billing window closes



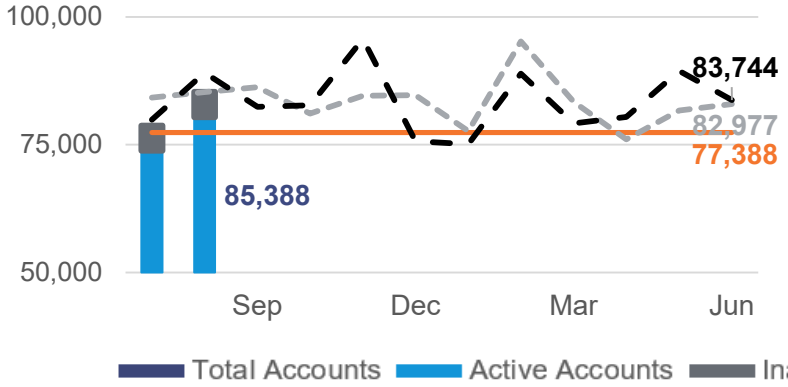
Estimated Bills

of consecutive estimated bills



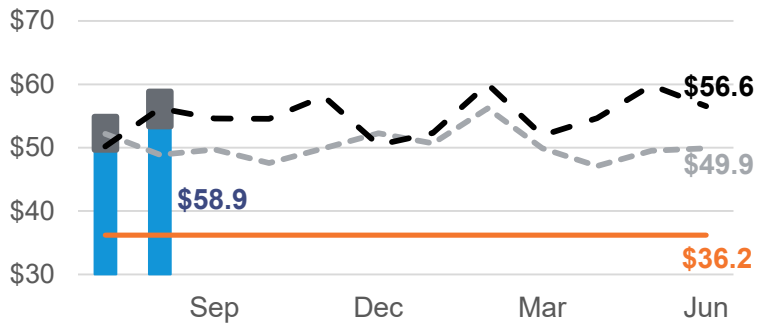
Past Due Accounts

of accounts more than 30 days past the bill date as of the last business day of the month



Past Due Amount

$ of accounts (millions) more than 30 days past the bill date as of the last business day of the month



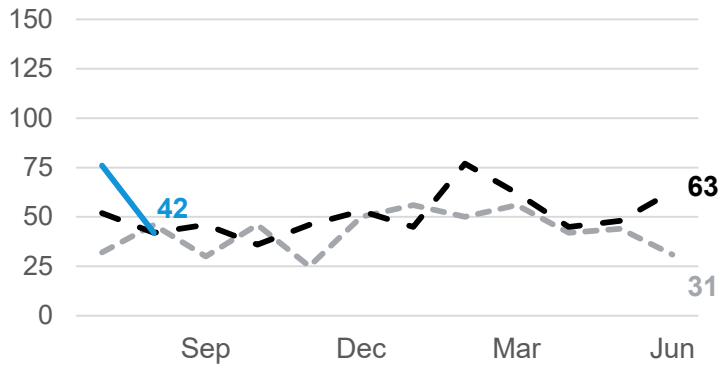
Total Accounts Active Accounts Inactive Accounts

This year (FY26)
Projected target
Last year (FY25) FY24

Deliver Safe, Reliable and Consistent Service

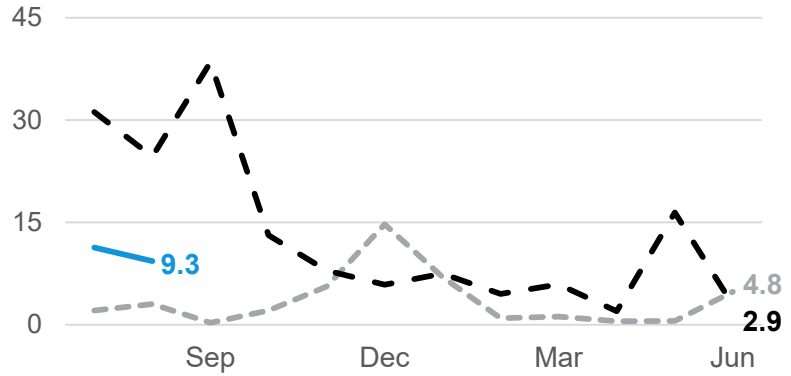
Basement Backups

of basement backups



Water Service Restoration Time (Hours)

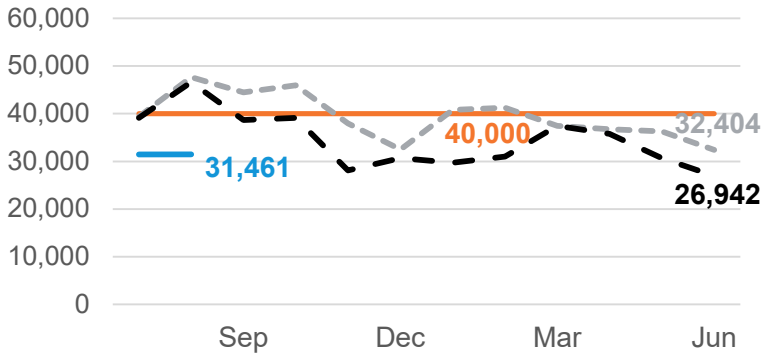
of outage hours / # of housing units impacted



Provide Timely Response to Customer Queries

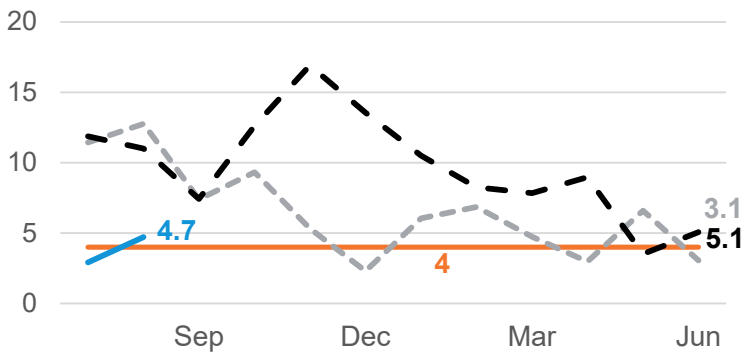
Call Volume

of calls received per month



Average Answer Speed

average minutes customer waits for customer care call center agent

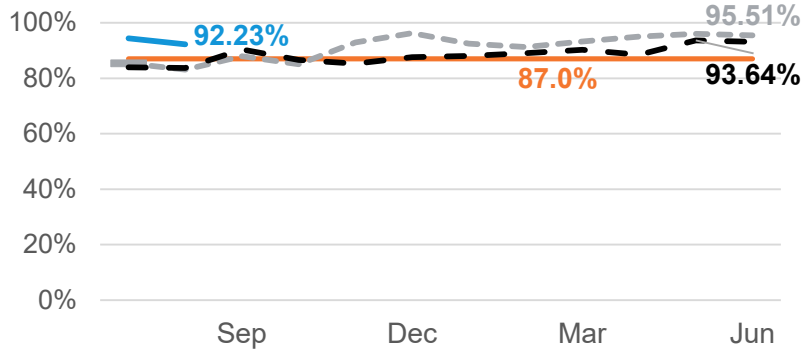


This year (FY26)
Projected target
Last year (FY25) FY24

Provide Timely Response to Customer Queries

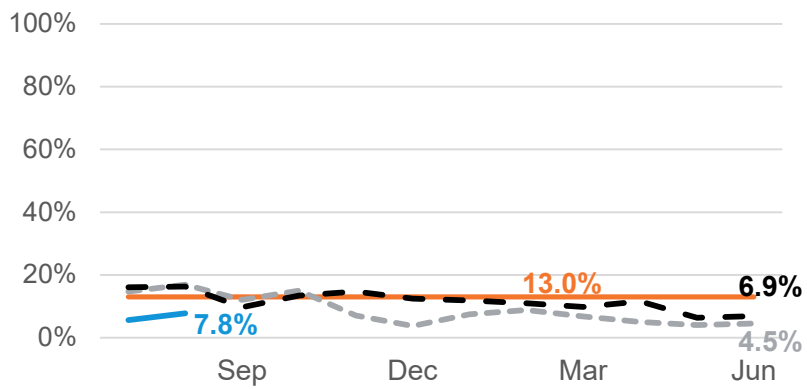
Calls Answered

of calls answered by a customer care agent / total calls



Calls Not Answered

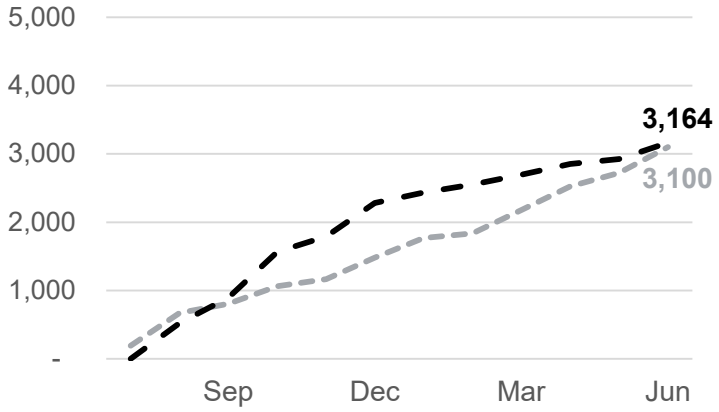
of calls not answered by a customer care agent / total calls



Be a Good Citizen within Our Community

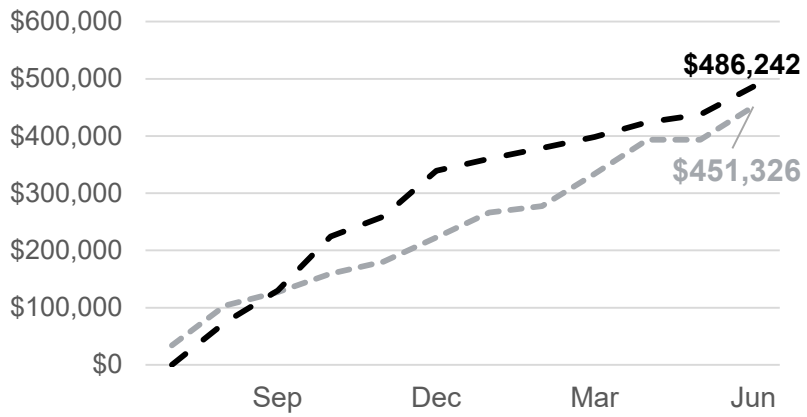
Water Fund Assistance Customers Served

of customers served, cumulative for fiscal year



Water Fund Assistance Provided

financial assistance applied to qualified customer water/sewer bills, cumulative for fiscal year

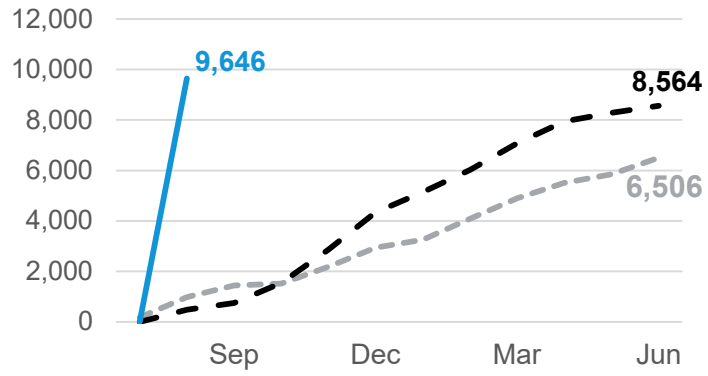


This year (FY26)
Last year (FY25)
FY24

Be a Good Citizen within Our Community

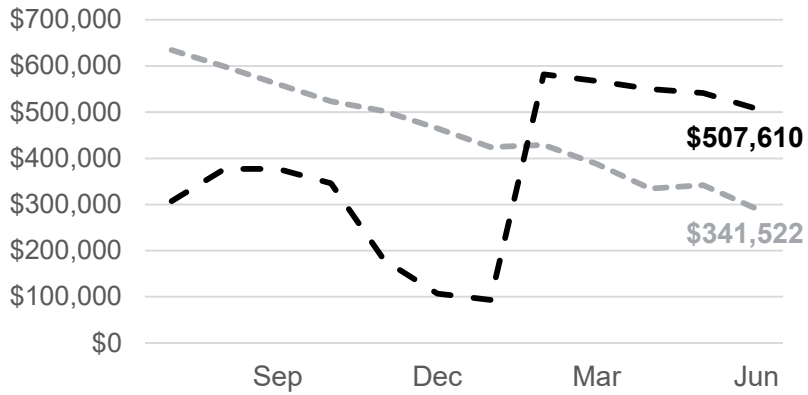
Customer Assistance Program Participants

participants served (includes active and inactive accounts), cumulative for fiscal year



Water Fund Bank Balance

value of account balance at month's end

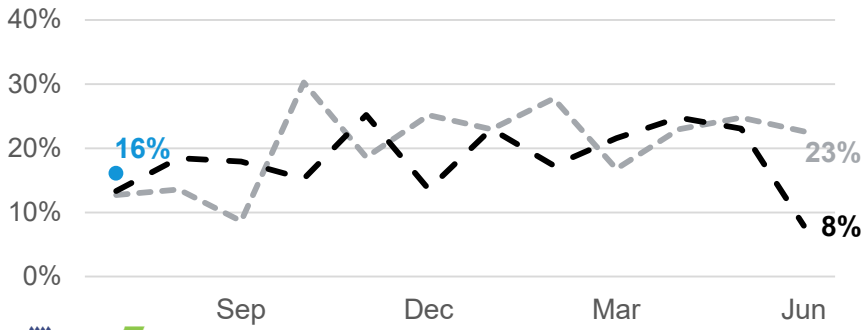


This year (FY26)
Last year (FY25)
FY24

Acquire the Best People

Monthly Positions Filled

of positions filled / # of actively recruited positions

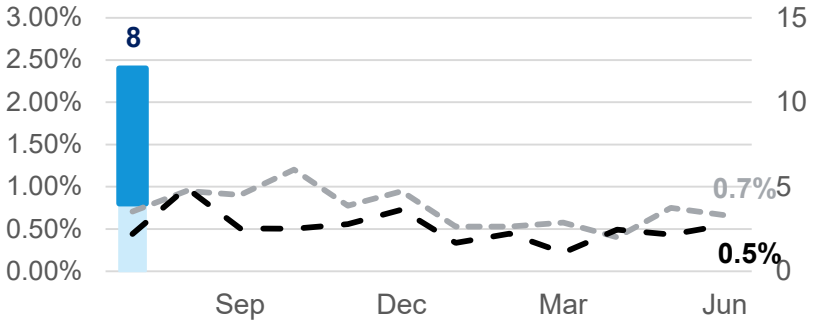


Retain Top Performers

Monthly Turnover Rate

of employee separations / # of FTEs

Retirement separations
Other separations

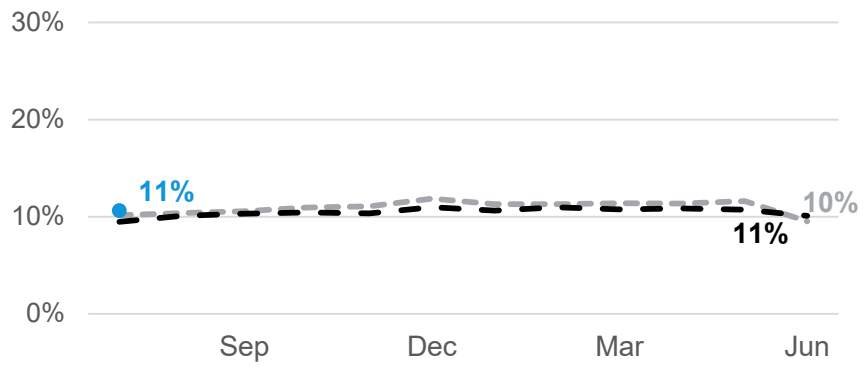


This year (FY26)
Last year (FY25)
FY24

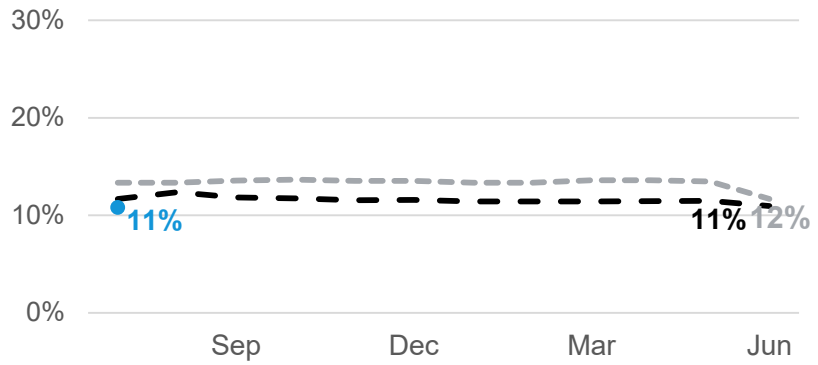
Develop and Grow Talent

of regular employees eligible for retirement within next x years / total # of FTEs

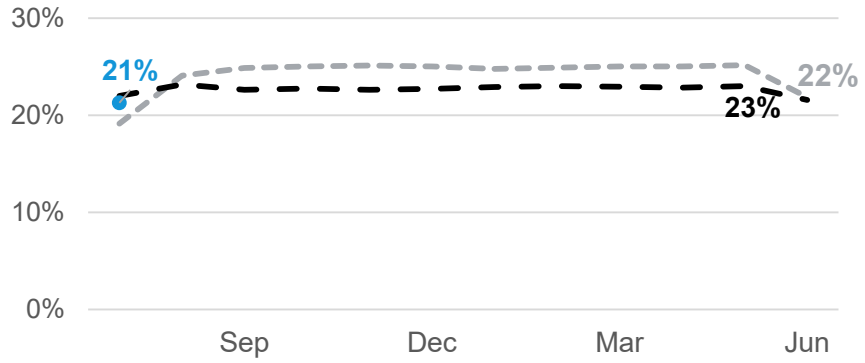
Retirement Eligibility (Full) Eligible Now



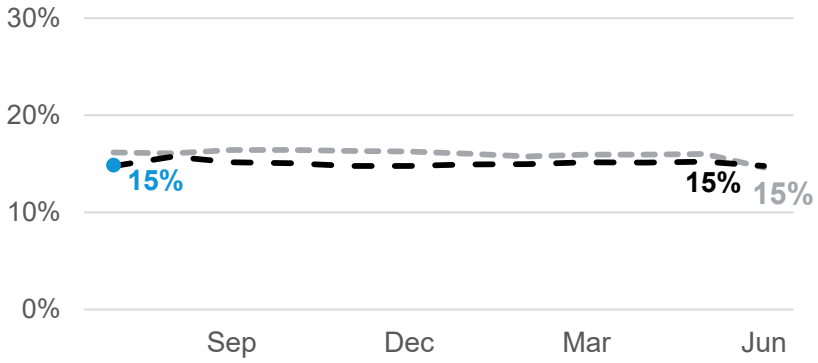
Retirement Eligibility (Early) Eligible Now



Retirement Eligibility (Full) Eligible Within 5 Years



Retirement Eligibility (Early) Eligible Within 5 Years

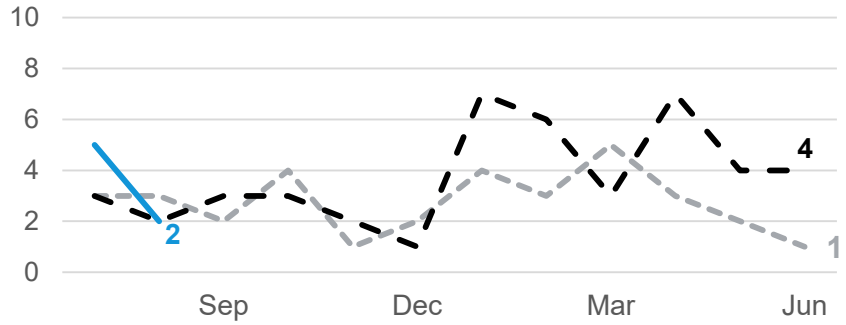


This year (FY26)
Last year (FY25)
FY24

Plan Proactively with Community Stakeholders and Resolve and Learn from Past Incidents

Emergency and Coordinated Responses

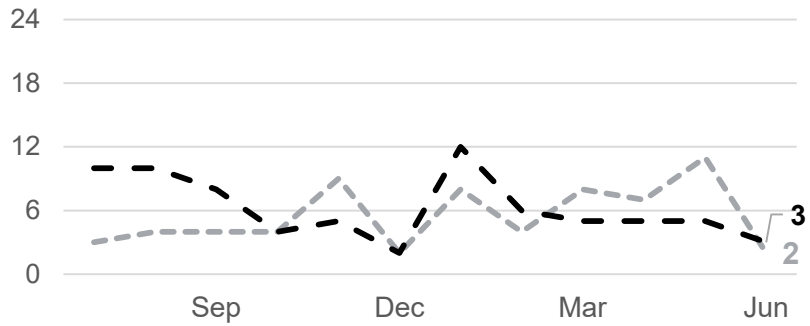
of cross-departmental coordinated responses, exercises and drills



Maintain Best in Class Operating Environment Safety for Employees

Occupational Injuries

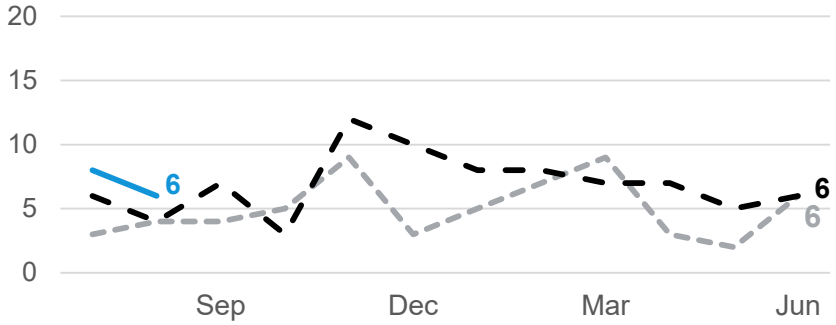
of occupational injuries that occurred



Secure Commission's Critical Infrastructure

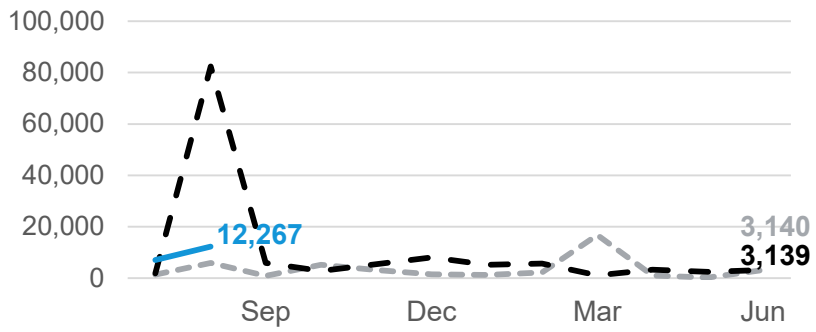
Sanitary Sewer Overflows

of sanitary sewer overflows per month



Sanitary Sewer Overflow Volume

Total gallons of sanitary sewer overflows per month



Turn-offs and Turn-ons Report – August 2025

All WSSC Turnoffs & Turnons

Turnoffs		Turnons	
739	Total Turnoffs Attempted	497	Total Turnons Attempted
641	Turnoffs Completed	457	Turnons Completed
98	Turnoffs Not Completed	40	Turnons Not Completed

Montgomery County Turnoffs & Turnons

Turnoffs		Turnons	
252	Total Turnoffs Attempted	156	Total Turnons Attempted
212	Turnoffs Completed	148	Turnons Completed
40	Turnoffs Not Completed	8	Turnons Not Completed
33.1%	% of Turnoffs	32.4%	% of Turnons

Prince George's County Turnoffs & Turnons

Turnoffs		Turnons	
487	Total Turnoffs Attempted	341	Total Turnons Attempted
429	Turnoffs Completed	309	Turnons Completed
58	Turnoffs Not Completed	32	Turnons Not Completed
66.9%	% of Turnoffs	67.6%	% of Turnons

WSSC WATER
DELIVERING THE ESSENTIAL

Turn-offs and Turn-ons Report – FYTD

All WSSC Turnoffs & Turnons

Total Turnoffs Attempted	Total Turnons Attempted
1,381	945
Turnoffs Completed	**Turnons Completed**
1,210	869
Turnoffs Not Completed	**Turnons Not Completed**
171	76

Montgomery County Turnoffs & Turnons

Total Turnoffs Attempted	Total Turnons Attempted
392	269
Turnoffs Completed	**Turnons Completed**
335	246
Turnoffs Not Completed	**Turnons Not Completed**
57	23
% of Turnoffs	**% of Turnons**
27.7%	28.3%

Prince George's County Turnoffs & Turnons

Total Turnoffs Attempted	Total Turnons Attempted
989	676
Turnoffs Completed	**Turnons Completed**
875	623
Turnoffs Not Completed	**Turnons Not Completed**
114	53
% of Turnoffs	**% of Turnons**
72.3%	71.7%

WSSC WATER
DELIVERING THE ESSENTIAL

RESOLUTION NO.: 2025-2402
Adopted: September 17, 2025
Effective Date: September 17, 2025

WASHINGTON SUBURBAN SANITARY COMMISSION

Subject: A RESOLUTION Ratifying the Declaration of Emergency declared by the General Manager/CEO with concurrence of the Chair and Vice Chair on Saturday, July 26, 2025.

WHEREAS, the Washington Suburban Sanitary Commission (WSSC or Commission) Code of Regulations Chapter 1.15, Bylaws, Rules, and Regulations, section 1.15.220, Official Emergency Action, delegates to the General Manager/CO, Chair, and Vice Chair authority to declare an emergency; and

WHEREAS, the Commission, a bi-county state agency created under the laws of the State of Maryland, provides sanitary sewer services to its ratepayers that includes the transmittal and processing of waste at the DC Water Blue Plains Advanced Wastewater Treatment Plant ("Blue Plains"); and

WHEREAS, DC Water's 108 inch Anacostia Force Main (AFM), the only sewer line carrying flow from WSSC's Anacostia Pump Station in Maryland to Blue Plains, collapsed just over the DC border in the Kenilworth community creating the potential for discharge into the Anacostia River during rain events; and

WHEREAS, additional emergency storage was needed on site at the Anacostia Pump Station to contain flows during rain events due to the DC Water flow containment and management being insufficient to contain the maximum possible flow during a rain event and the existing storage basin at the Anacostia Pump Station being available to divert only 7 MG of flow during rain events; and

WHEREAS, there being insufficient time to convene a quorum of Commissioners, Chair Smith and Vice Chair Powell meet with General Manager/CEO Powell to discuss the imminent threat of wastewater being discharged into the Anacostia River during a heavy rain event, and that to avoid an overflow, emergency procurement powers were needed to procure additional storage units at the Anacostia Pump Station, and to repair or replace portions of the on site clarifiers to create additional storage capacity, and declared an emergency pursuant to WSSC Code 1.15.220(b)(1); and

WHEREAS, the summary of the declaration and vote of each Commissioner required by subparagraph (2) is attached to this resolution; and

WHEREAS, on September 10, 2025, DC Water announced that it completed repairs to the 108" AFM.

NOW, THEREFORE, BE IT RESOLVED, this 17th day of September 2025, that the Commission hereby ratifies the declaration of emergency by adoption of the minutes of the July 26, 2025 meeting and the actions taken to address the emergency; and

BE IT FURTHER RESOLVED, that as of the 17th day of September, 2025, the declaration of emergency has expired.

A True Copy.

_____
Julianne M. Montes de Oca
Corporate Secretary

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 70572 Western Branch Water Resource Recovery Facility Raw Influent Building in the amount of $2,148,750.00 to Horton Mechanical Contractors, Inc., for a contract term of one year.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$2,148,750.00	**Contract Number:**	70572
Contract Term:	1 Year	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract consists of providing cooling to the variable frequency drives in the Raw Influent Building. The upper room in the Raw Influent Building will be conditioned using packaged and split air-conditioning units. Work includes, but is not limited to, installation of new air conditioning units, re-purposing of existing exhaust fans, installation of ducts, installation of stair enclosure to separate spaces, demolition of the existing variable frequency drive cabinet coolers and installation of fans on the variable frequency drive cabinets.

FY26 Budget:	$1,750,000.00	**FY27 Budget:**	$398,750.00
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	
CIP Job Number:	

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

Justification
The existing HVAC system, which serves the influent pump station pump room and variable frequency drive room, utilizes electric unit heaters and gas fired air-handling units for heating. No mechanical space cooling is currently installed; however, five exhaust fans provide ventilation and summer temperature regulation. Currently, to provide cooling for the variable frequency drives, each cabinet is supplied with two IceQube direct expansion air conditioning units. These units remove heat from the cabinets and reject it into the room, which continually increases the room temperature. This has resulted in costly repair and replacement costs for the IceQube units and variable frequency drives.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Horton Mechanical Contractors, Inc.
Contract Amount:	$2,148,750.00
Business Location:	Baltimore, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Stokes Mechanical, LLC. Baltimore, Maryland	Provide plumbing, heating, and air conditioning

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
Change Order No. 1	$	$		
Option Term 1	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 70572 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Cheryll Brewton Buyer's Initials: DS CB

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by: Nina R Hickson 36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 27, 2025 | 12:22 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon Harley
0A75BF3AD966495...

Aug 27, 2025 | 10:09 AM EDT

Kiyon T. Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 11:47 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:57 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Sep 2, 2025 | 8:22 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Sep 4, 2025 | 8:21 AM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 0E40AB07-E4BE-47B5-B44A-0E12BEE3E78B

Bid Results

SOLICITATION NO: 70572		**DATE:** **TIME:** **LOCATION:**	06/12/2025 14:00:00PM Online Discussion
TITLE:	Western Branch WRRF Raw Influent Building VFD Climate Control		
ENGINEER'S ESTIMATE	**$1,470,000.00**	**RECORDED BY:**	C. Brewton
FINAL BID TABULATION			

	NAME OF BIDDER	BID AMOUNT
1.	Horton Mechanical Contractors, Inc.	$2,148,750.00
2.	Crockett Facilities Services, Inc.	$2,485,950.00
3.	Norair Engineering Corp.	$2,920,998.00
4.	Nichols Contracting, Inc.	$3,383,035.00

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COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 67587, Bock Road Transmission Water Main Replacement and Browns Lane Pressure Reducing Valve, in the amount of $12,484,584.40 to Commercial Utilities, LLC, for a contract term of 480 days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$12,484,584.40	**Contract Number:**	67587
Contract Term:	480 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

This project consists of the Bock Road Transmission Water Main Replacement (BTBR6651A19) and the Browns Lane Pressure Reducing Valve (MV6807A19).

The Bock Road Transmission Water Main Replacement involves the replacement and relocating 2.3 miles of 30 linear feet of new 4-inch water main, 30 linear feet of new 6-inch water main, 705 linear feet of new 8-inch water main, 120 linear feet of new 10-inch water main, 10 linear feet of new 12-inch water main, 110 linear feet of new 16-inch water main, and 10,980 linear feet of new 20-inch water main, along with 3,890 linear feet of water house connections. This work will serve Bock Road and various surrounding streets in the Fort Washington area of Prince George's County, Maryland.

The Browns Lane Pressure Reducing Valve component involves furnishing and installing a new pressure-reducing valve (PRV) vault and associated piping and appurtenances to replace two existing vaults, which will be abandoned in place. The new vault will include an 8-inch field-set PRV, a control valve, and a 6-inch pressure

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

relief valve. The installation will be located on Browns Lane, near the intersection of Bock Road and Browns Lane in Fort Washington.

The Fact Sheets were mailed to impacted customers and The Honorable Edward Burroughs III, Prince George's County Council District 8, on August 25, 2025.

The Outreach Meeting Invitation Card will be mailed to impacted customers and The Honorable Edward Burroughs II, Prince George's Council District 8, approximately 2 months before the construction begins.

FY26 Budget:	$2,340,859.58	**FY27 Budget:**	$9,363,438.30
FY28 Budget:	$780,286.52	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	Bock Road Transmission Water Main Replacement & Browns Lane Pressure Reducing Valve
CIP Job Number:	BTBR6651A19 & MV6807A19

Justification

The Bock Road Transmission Water Main Replacement and Browns Lane PRV project addresses two critical water system needs in Prince George's County. The 2.2-mile, 16-inch cast iron transmission main, constructed between 1956 and 1968, has experienced approximately 12 water main breaks and service leaks since 2000. It supplies water to the Fort Washington area in the 450A pressure zone and, through the Browns Lane PRV, to the Rosecroft Park neighborhood in the 290A pressure zone.

The Browns Lane PRV, built in 1957, is in poor condition and serves as the primary feed to the 290A pressure zone. Its replacement will improve operational stability, ensure consistent water pressure, and enhance the reliability of water service. These facilities are critical because they supply water to key community locations such as Rosecroft Raceway, Southern Regional Technology and Recreation Complex, Woodside Village Senior Apartments, and National Christian Academy & Life Center, in addition to serving a dense residential population.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

Awardee Information	
Contractor Name:	Commercial Utilities, LLC.
Contract Amount:	$12,484,584.40
Business Location:	Hanover, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Manuel Luis Construction Co., Inc. Silver Spring, Maryland	HMA restoration
Sandra's Supplies, LLC Bowie, Maryland	Dump truck hauling disposal & aggregate supplier
SJ and Son Construction and Trucking, LLC Bowie, Maryland	Dump truck hauling disposal & aggregate supplier
East Bay Construction & Services 1, LLC Lanham, Maryland	Open Cut Water Line Installation

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
Change Order No. 1	$	$		
Option Term 1	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 67587 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Cheryll Brewton Buyer's Initials: DS CB

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...
General Counsel's Office

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8D14C9...

Aug 26, 2025 | 11:50 PM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BE3AD966495...

Aug 27, 2025 | 10:12 AM EDT

Kiyon T. Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 11:19 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:45 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:27 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 28, 2025 | 4:23 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 90B49B78-5F1F-4C73-BF97-4349252051E1

Bid Results

SOLICITATION NO: 67587		**DATE:** **TIME:** **LOCATION:**	05/27/2025 14:00:00PM Online Discussion
TITLE:	Bock Road Transmission WMR and Browns Lane Pressure Reducing Valve		
ENGINEER'S ESTIMATE	**$14,227,405.00**	**RECORDED BY:**	C. Brewton
FINAL BID TABULATION			

	NAME OF BIDDER	BID AMOUNT
1.	Commercial Utilities, LLC	$12,484,584.40
2.	Pessoa Construction Company, Inc.	$12,912,313.24
3.	Sagres Construction Corporation	$14,625,354.00
4.	A&M Concrete Corporation	$15,624,591.00
5.	Rivers Construction Group, LTD	$18,525,817.00
6.	Fort Myer Construction Corporation	$20,932,306.00

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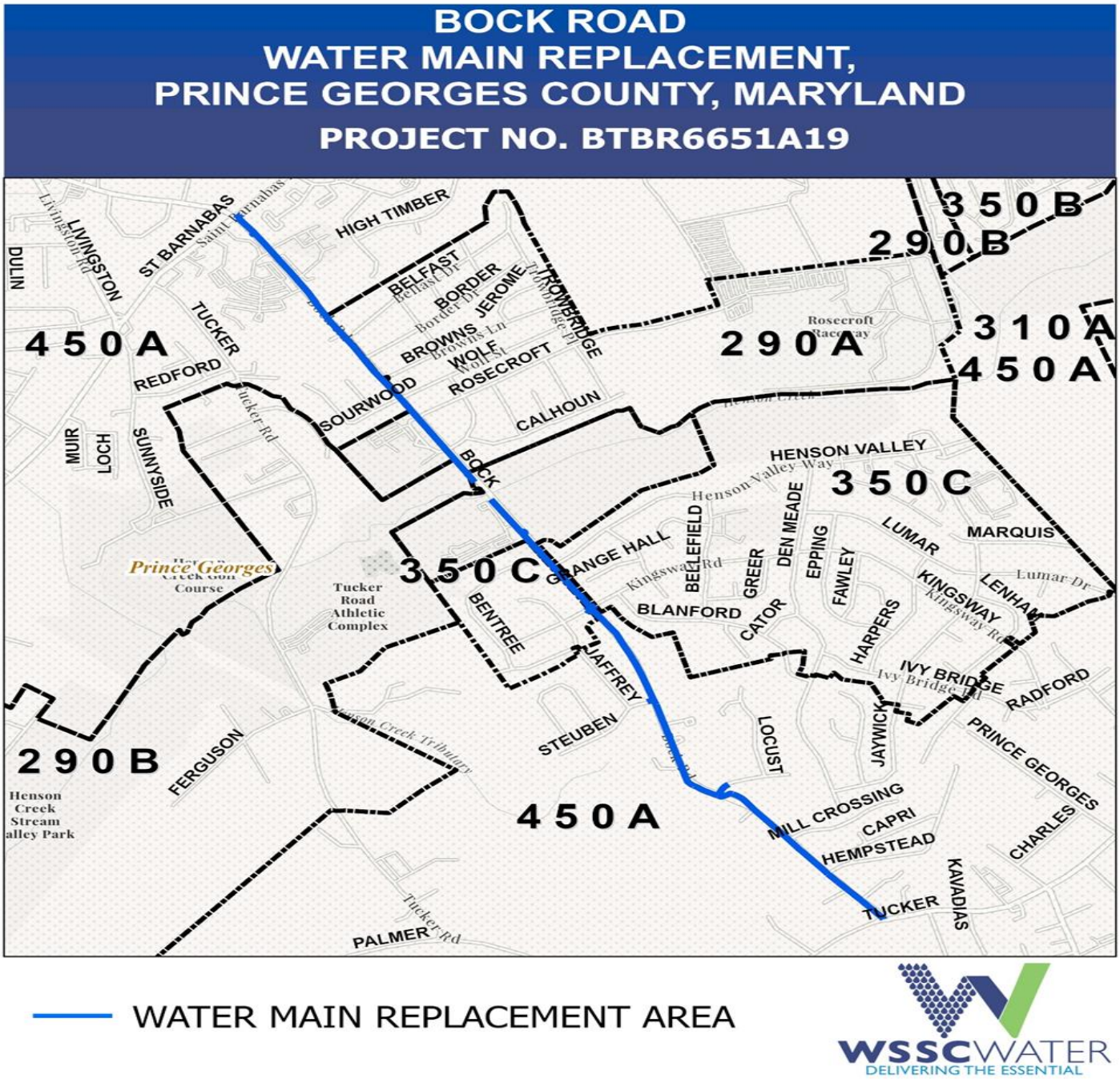
WSSCWATER
DELIVERING THE ESSENTIAL

Project Map



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COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 65561, Thurston Drive Water Main Replacement, in the amount of $4,093,518.00 to Crown Construction Service, Inc., for a contract term of 535 calendar days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$ 4,093,518.00	**Contract Number:**	65561
Contract Term:	535 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

This project will replace existing 3-inch, 6-inch, 8-inch, and 10-inch cast iron water mains with approximately 1,208 linear feet of 4-inch, 6,186 linear feet of 8-inch, and 2,310 linear feet of 10-inch ductile iron pipe, along with approximately 5,218 linear feet of water house connections, in Kettering, Prince George's County, Maryland.

Fact sheets were mailed on September 25, 2024, to impacted customers and to, The Honorable Wala Blegay, Prince George's County Council District 6. A Community Outreach Meeting will be held approximately 4 -6 weeks prior to the start of construction, with invitation cards mailed to impacted customers and Councilmember Blegay.

FY26 Budget:	$1,606,801.00	**FY27 Budget:**	$2,486,717.00
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

Capital Improvement Project (CIP)	
CIP Project Title:	Thurston Drive Water Main Replacement
CIP Job Number:	BR6552A18

Justification
Thurston Drive Water Main Replacement (BR6552A18) involves replacing existing 3-inch, 6-inch, 8-inch, and 10-inch cast iron distribution water mains, constructed between 1966 and 1968, with new 4-inch, 6-inch, 8-inch, and 10-inch ductile iron pipe. The project is in Prince George's County, within the 317A pressure zone, and supplies water to the Kettering subdivision of Upper Marlboro, Maryland. Since 1993, the subdivision has experienced approximately 93 water main breaks, shutdowns, and pipe repairs. These mains supply water to residential and business customers and are located within an economically disadvantaged area.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Crown Construction Service, Inc.
Contract Amount:	$4,093,518.00
Business Location:	Temple Hills, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Rava Engineering, Inc. Bethesda, Maryland	Wholesale trade agents & brokers, project management for highway, bridge & street construction
Wiltshire Trucking, LLC Riverdale, Maryland	Trucking & hauling services, county graded aggregate base and hauling of excess soils

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
Change Order No. 1	$	$		
Option Term 1	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 65561 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...
General Counsel's Office

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Sep 2, 2025 | 8:46 PM EDT

Caville Stanbury-Woolery
Acting Chief Engineer

Date

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Sep 3, 2025 | 9:54 AM EDT

Kiyon T. Harley
Office of Supplier Diversity & Inclusion Director

Date

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Sep 3, 2025 | 8:58 AM EDT

Munetsi Timothy Musara
Chief Financial Officer

Date

DocuSigned by:
Caprecia Poole-Williams
A42FEDD2CA544D0...

Sep 2, 2025 | 9:04 PM EDT

Caprecia M. Poole-Williams
Chief Procurement Officer

Date

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Sep 3, 2025 | 3:58 PM EDT

Aklile Tesfaye
Deputy General Manager of Operations

Date

DocuSigned by:
Kpowell
D248462ADDEE450...

Sep 4, 2025 | 8:13 AM EDT

Kishia L. Powell
General Manager/CEO

Date

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

WSSCWATER
DELIVERING THE ESSENTIAL

Bid Results

SOLICITATION NO: 65561	**DATE: 5/7/2025** **TIME: 2:00 PM** **LOCATION: ON-LINE DISCUSSION**		**BUYER NAME: Tiara Jones**
TITLE:	Thuston Drive Water Main Replacement		
ENGINEER'S ESTIMATE	**$4,213,881.00**	**RECORDED BY:**	Tiara Jones
BID TABULATION			

	NAME OF BIDDER	BID AMOUNT
1.	Crown Construction Service, Inc.	$4,093,518.00
2.	Skoda Contracting Company, Inc.	$4,278,964.51
3.	Rustler Construction, Inc.	$4,441,983.66
4.	ECM Corporation	$4,643,736.17
5.	Sagres Construction Corporation	$4,782,368.00
6.	A&M Concrete Corporation	$4,910,683.00
7.	Pessoa Construction Company	$5,297,659.40
8.	Civil Construction, LLC	$5,449,610.00
9.	Commercial Utilities, LLC	$5,600,170.00
10.	Rivers Construction Group, Ltd.	$5,720,726.00
11.	Flippo Construction Company, Inc.	$6,110,845.57
12.	Anchor Construction Corporation	$7,219,974.50
13.	Ross Contracting, Inc.	$8,895,042.00

Docusign Envelope ID: B3E4892D-EA6A-43D2-98EA-C6466F1A0B81

WSSCWATER
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Project Map

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 63561, Rolling Acres Water Main Replacement, in the amount of $3,334,596.00 to Crown Construction Service, Inc., for a contract term of 537 calendar days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$3,334,596.00	**Contract Number:**	63561
Contract Term:	537 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The project includes replacing approximately 740 linear feet of 3-inch cast iron water main and 7,162 linear feet of 6-inch cast iron water main with new 4-inch and 8-inch ductile iron water mains. The work also includes replacing 4,604 linear feet of water house connections in the Upper Marlboro and Cheltenham areas of Prince George's County, Maryland.

Fact sheets were mailed on January 24, 2025, to impacted customers and to, The Honorable Sydney J. Harrison, Prince George's County Council District 9. A community outreach meeting will be scheduled 4 to 6 weeks before construction begins, with invitations sent to impacted customers and Councilmember Harrison.

This project is funded by the Maryland Department of the Environment State Revolving Fund and is subject to the requirements of the American Iron and Steel Act and the Build America, Buy America Act.

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

FY26 Budget:	$ 1,111,532	**FY27 Budget:**	$ 2,223,064
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	Rolling Acres Water Main Replacement
CIP Job Number:	BR6944A20

Justification

The Rolling Acres Water Main Replacement project (CIP Job No. BR6944A20) will replace approximately 1.5 miles of 3-inch and 6-inch cast iron distribution mains, constructed between 1963 and 1973, with new ductile iron mains. The project is in the 385B pressure zone and supplies water to the Brookwood, Hollaway Estates, and Rolling Acres subdivisions of Cheltenham, Maryland.

Since 1994, these mains have experienced approximately 76 water main breaks, shutdowns, and repairs. The deteriorated condition of the existing infrastructure increases the risk of service interruptions to nearby facilities, including Rosaryville Elementary School, Learningville Daycare, Cornerstone Peaceful Bible Baptist Church, Kingdom Hall of Jehovah's Witnesses, the Cheltenham Youth Detention Facility, and numerous residential customers. Replacing these mains will improve system reliability, reduce maintenance costs, and enhance water service for the community.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

Awardee Information	
Contractor Name:	Crown Construction Service, Inc.
Contract Amount:	$3,334,596.00
Business Location:	Temple Hills, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Rava Engineering, Inc. Bethesda, Maryland	Wholesale trade agents & brokers
Wiltshire Trucking, LLC Riverdale, Maryland	Supply specialized freight - hauling stone to primary contractor as required with stone to include county Graded Aggregate Base - 57's and surge stone as requested; Hauling stone to primary contractor as required

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 63561 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 26, 2025 | 11:46 PM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 11:01 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:10 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:31 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 29, 2025 | 3:07 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 31, 2025 | 6:33 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

WSSCWATER
DELIVERING THE ESSENTIAL

SOLICITATION NO: 63561		DATE: TIME: LOCATION:	4/22/2025 14:00:00 PM Online Discussion
TITLE:	Rolling Acres Water Main Replacement		
ENGINEER'S ESTIMATE	$3,387,082.00	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Crown Construction Services Inc.	$3,334,596.00
2.	A&M Concrete	$3,583,925.00
3.	ECM Corporation	$3,664,866.17
4.	Rivers Construction Group, LTD	$3,720,119.00
5.	Rustler Construction, Inc.	$3,785,277.10
6.	SKODA Contracting Company, Inc.	$3,808,914.50
7.	Sagres Construction Corporation	$3,850,446.00
8.	WR Sewer & Excavation, Inc.	$4,594,249.00
9.	Pessoa Construction Company	$4,897,002.00
10.	Commercial Utilities	$5,266,708.25
11.	Monumental Paving & Excavating, Inc.	$7,240,000.00

Docusign Envelope ID: 3B3EB6B3-ED35-4A42-9164-26D35DDE1F63

Project Map

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 65574, Larkwood Avenue Water Main Replacement, in the amount of $4,434,084.00 to Crown Construction Service, Inc., for a contract term of 801 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$4,434,084.00	**Contract Number:**	65574
Contract Term:	801 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

This project will replace existing 3-inch, 6-inch, and 8-inch cast iron water mains with approximately 640 linear feet of 4-inch, 9,787 linear feet of 8-inch, and 1,203 linear feet of 10-inch ductile iron pipe, along with approximately 5,648 linear feet of water house connections in Fort Washington, Prince George's County, Maryland.

Fact sheets were mailed on February 7, 2025, to impacted customers and to, The Honorable Edward Burroughs III, Prince George's County Council District 8. A Community Outreach Meeting will be held approximately one month prior to the start of construction, with meeting invitation cards mailed to impacted customers and Councilmember Burroughs.

This project is funded by the Maryland Department of the Environment State Revolving Fund and is subject to the requirements of the American Iron and Steel Act and the Build America, Buy America Act.

FY26 Budget:	$1,162,494.00	**FY27 Budget:**	$1,992,847.00
FY28 Budget:	$1,278,743.00	**FY29 Budget:**	$

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

Capital Improvement Project (CIP)	
CIP Project Title:	Larkwood Water Main Replacement
CIP Job Number:	BR6715A19

Justification
Larkwood Avenue Water Main Replacement (BR6715A19) involves replacing existing 3-inch, 6-inch, and 8-inch cast iron distribution water mains, constructed between 1961 and 1996, with new 4-inch, 8-inch, and 10-inch ductile iron pipe. The project is in Prince George's County, within the 385B pressure zone, and supplies water to the Pinehurst Estates, Linda Knolls, Forest of Hunter's Mill, and Rose Valley Estates subdivisions of Fort Washington, Maryland. Since 1993, these subdivisions have experienced approximately 136 water main breaks, shutdowns, and pipe repairs, underscoring the need for replacement to ensure reliable service, improve water quality, and reduce maintenance costs.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Crown Construction Service, Inc.
Contract Amount:	$4,434,084.00
Business Location:	Temple Hills, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Rava Engineering, Inc. Bethesda, Maryland	Provide project management for highway, street, and bridge construction, wholesale trade agents and brokers.
Wiltshire Trucking Corporation Riverdale, Maryland	Wholesale trade agents and brokers

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
Change Order No. 1	$	$		
Option Term 1	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 65574 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Erik T. Lewis Buyer's Initials: Initial EL

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...
General Counsel's Office

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 26, 2025 | 11:52 PM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 1:23 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 10:39 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:48 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:19 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 28, 2025 | 4:29 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

Bid Results

SOLICITATION NO: 65574		**DATE:** **TIME:** **LOCATION:**	06.10.25 02:00:00 PM Online Discussion
TITLE:	Larkwood Avenue Water Main Replacement		
ENGINEER'S ESTIMATE	**$5,803,451.00**	**RECORDED BY:**	E. Lewis

	NAME OF BIDDER	BID AMOUNT
1.	Crown Construction Service, Inc.	$4,434,084.00
2.	ECM Corporation	$4,545,567.07
3.	Commercial Utilities, LLC	$4,574,339.00
4.	Rustler Construction, Inc.	$4,674,130.80
5.	Sagres Construction Corporation	$4,894,117.00
6.	A&M Concrete Corporation	$5,179,060.00
7.	Rivers Construction Group LTD	$5,497,726.00
8.	SKODA Contracting	$5,840,047.08
9.	United Construction Services, LLC	$6,199,980.27
10.	FLIPPO Construction Company, Inc	$6,228,666.00
11.	Civil Construction, LLC	$6,600.000.00
12.	Pessoa Construction Corporation, Inc.	$7,126,982.50
13.	Anchor Construction Corporation	$7,843,462.49

Docusign Envelope ID: 0ACEF623-2CD7-4220-94FA-211E588C2339

WSSCWATER
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Project Map

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 65556, Alexandria Drive Water Main Replacement, in the amount of $3,752,179.50 to A&M Concrete Corporation, for a contract term of 502 calendar days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$3,752,179.50	**Contract Number:**	65556
Contract Term:	502 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract includes replacing existing 3-inch, 4-inch, 6-inch, 8-inch, 10-inch, and 12-inch cast iron pipe with approximately 1,330 linear feet of 4-inch, 2,001 linear feet of 8-inch, 183 linear feet of 10-inch, and 5,480 linear feet of 12-inch ductile iron pipe, along with approximately 3,526 linear feet of water house connections, in Oxon Hill, Prince George's County, Maryland.

Fact sheets were mailed on February 10, 2025, to impacted customers and to, The Honorable Edward Burroughs III, Prince George's County Council District 8. A Community Outreach Meeting will be held approximately 4 – 6 weeks before construction begins, with meeting invitation cards mailed to impacted customers and Councilmember Burroughs.

This project is funded by the Maryland Department of the Environment State Revolving Fund and is subject to the requirements of the American Iron and Steel Act and the Build America, Buy America Act.

FY26 Budget:	$1,569,636.50	FY27 Budget:	$2,182,543.00

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	Alexandria Drive Water Main Replacement
CIP Job Number:	BR6650A19

Justification
Alexandria Drive Water Main Replacement (BR6650A19) involves replacing existing 3-inch, 4-inch, 6-inch, 8-inch, 10-inch, and 12-inch cast iron distribution water mains, constructed between 1957 and 1978, with new 4-inch, 8-inch, 10-inch, and 12-inch ductile iron pipe. The project is located in Prince George's County, within the 290B pressure zone, and supplies water to the North Potomac View, Potomac View, North Potomac Vista, and Bradbury Heights subdivisions of Oxon Hill, Maryland. Since 1993, these subdivisions have experienced approximately 70 water main breaks, shutdowns, and pipe repairs, underscoring the need for replacement to improve service reliability and reduce emergency repair costs.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	A&M Concrete Corporation
Contract Amount:	$3,752,179.50
Business Location:	Sterling, Virginia
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	**Summary of Services**
AVIMAN Management, LLC. Wilmington, Delaware	Bulk material supply of waterworks material

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
Change Order No. 1	$	$		
Option Term 1	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 65556 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita Fields Buyer's Initials: DS EJF

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
30721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E90A427ED8B14C8...

Aug 27, 2025 | 12:19 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 10:10 AM EDT

Kiyon T. Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 11:21 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:59 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:21 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
B2484629DDEE450...

Aug 28, 2025 | 4:27 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

WSSCWATER
DELIVERING THE ESSENTIAL

Bid Results

SOLICITATION NO: 65556	**DATE:** **TIME:** 2:00 PM **LOCATION:** ON-LINE DISCUSSION	**BUYER NAME:** Tiara Jones
TITLE:	Alexandria Drive Water Main Replacement	
ENGINEER'S ESTIMATE	$4,740,643.00	**RECORDED BY:** Tiara Jones

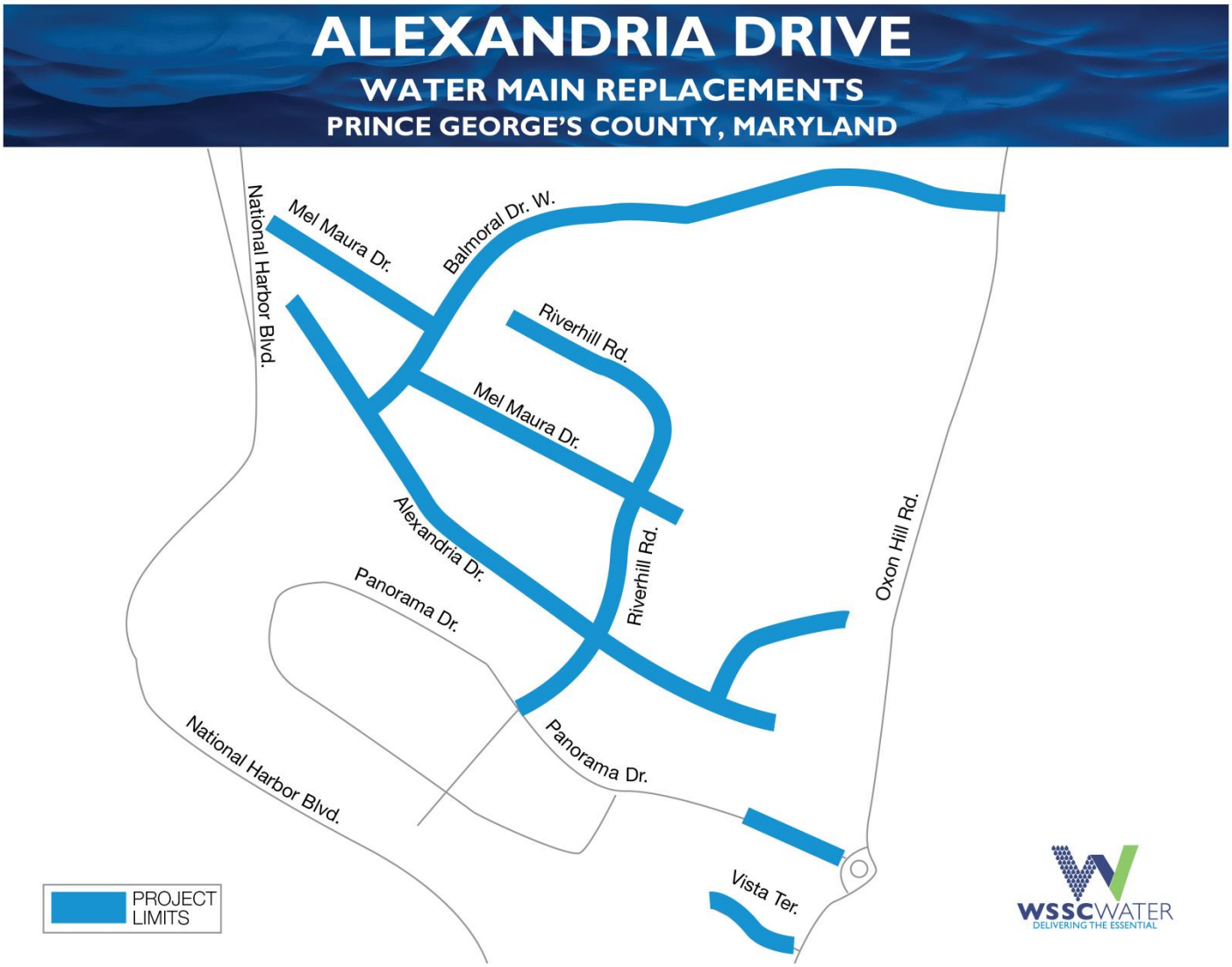
BID TABULATION

	NAME OF BIDDER	BID AMOUNT
1.	A&M Concrete Corporation	$3,752,179.50
2.	ECM Corporation	$3,973,206.45
3.	Crown Construction Service, Inc.	$3,973,320.00
4.	Rustler Construction, Inc.	$4,205,856.58
5.	Rivers Construction Group, Ltd.	$4,210,503.00
6.	Sagres Construction Corporation	$4,392,778.00
7.	Pessoa Construction Company	$4,994,515.67
8.	Skoda Contracting Company, Inc.	$5,093,681.00
9.	Anchor Construction Corporation	$5,102,082.00

Docusign Envelope ID: 074938B5-FB51-4DE8-97B3-C3A069568CEE

WSSCWATER
DELIVERING THE ESSENTIAL

Project Map



Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 64561, Hillcrest Heights Sewer Rehabilitation, in the amount of $5,147,648.00 to Pessoa Construction Company, for a contract term of 500 calendar days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$5,147,648.00	**Contract Number:**	64561
Contract Term:	500 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract includes the repair, rehabilitation, or replacement of 2.64 miles of defective sewer mains and laterals, utilizing approximately 5,900 linear feet (1.12 miles) of cured-in-place pipe (CIPP) lining, 3,284 linear feet (0.62 miles) of open-cut replacement, 3,306 linear feet (0.63 miles) of defective sewer lateral replacement, and 95 manholes located in the Oxon Run Basin, Prince George's County, Maryland.

A community outreach meeting will be held 4 to 6 weeks prior to the start of construction on October 8, 2025. A meeting invitation will be sent to, The Honorable Krystal Oriadha, Prince George's County Council District 7.

FY26 Budget:	$2,450,280.45	**FY27 Budget:**	$2,697,367.55
FY28 Budget:	$0	**FY29 Budget:**	$0

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

Capital Improvement Project (CIP)	
CIP Project Title:	Hillcrest Heights Roads Sewer Rehabilitation
CIP Job Number:	CRCILRMH7047A21

Justification
The project is located in Prince George's County, within the Oxon Run Basin, and conveys wastewater to the Piscataway Water Resource Recovery Facility. The Hillcrest Heights Roads Sewer Rehabilitation project includes the repair, replacement, and rehabilitation of 6-inch, 8-inch, and 10-inch concrete gravity sewer mains and laterals constructed between 1946 and 1972. Inspections revealed that the sewer mains have root intrusion, infiltration, and grease buildup. This project is funded through a Maryland Department of the Environment loan.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Pessoa Construction Company
Contract Amount:	$5,147,648.00
Business Location:	Fairmont Heights, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Caded Consulting Corporation Gaithersburg, Maryland	Construction stakeout
SJ and Son Construction and Trucking, LLC. Hyattsville, Maryland	Dump Truck Hauling Disposal and Aggregate Supplier

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 64561 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 27, 2025 | 12:13 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
9A75BF3AD966495...

Aug 27, 2025 | 1:24 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi T. Musara
66EC2C787AA4449...

Aug 27, 2025 | 10:54 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:05 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:18 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
KPowell
D2484629DDEE450...

Aug 28, 2025 | 4:05 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

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☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

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_____ / _____

COMMISSION **Date**

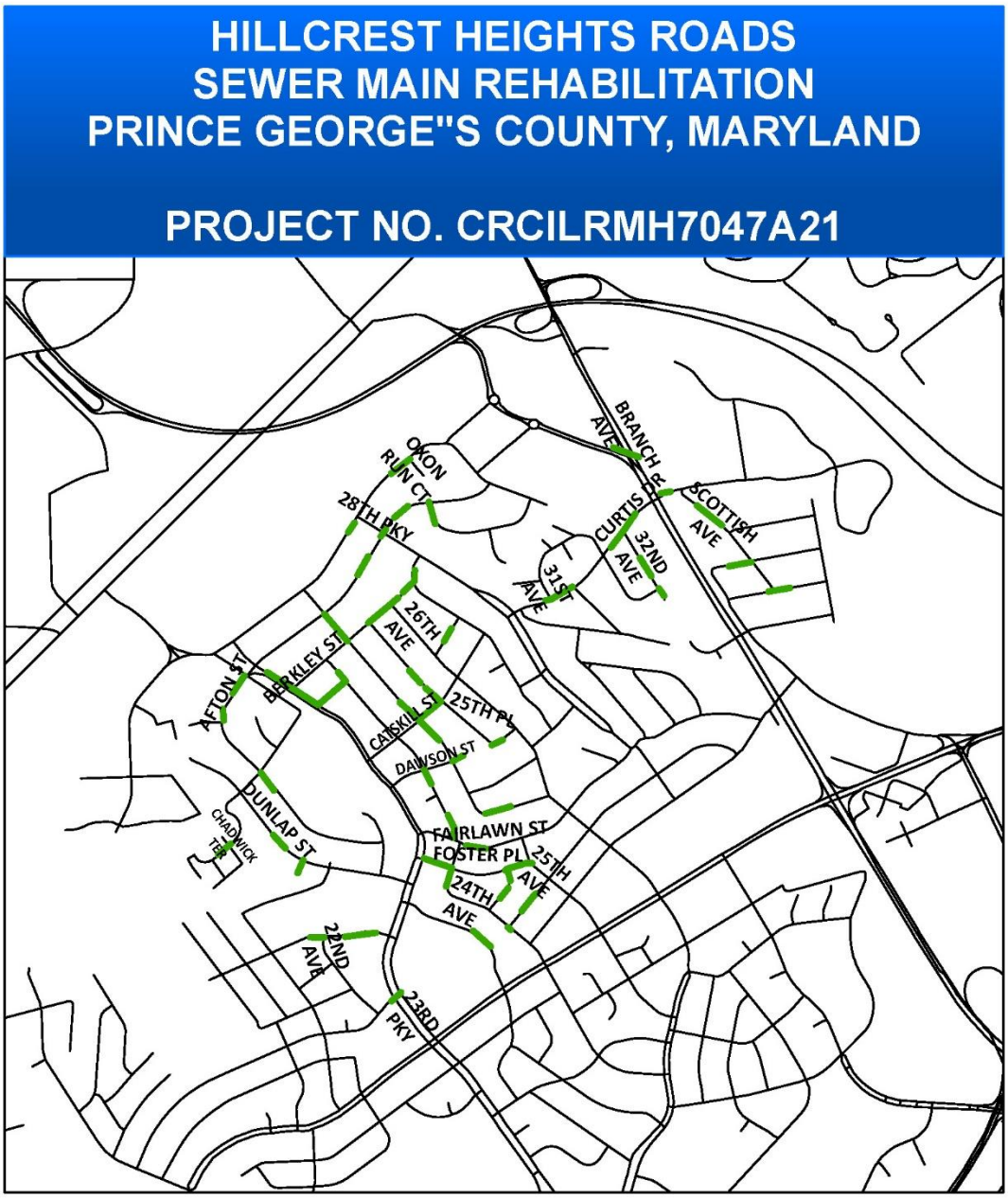
Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

SOLICITATION NO: 64561		DATE: TIME: LOCATION:	4/23/2025 14:00:00 PM Online Discussion
TITLE:	Hillcrest Heights Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$4,360,598.12	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Pessoa Construction Company	$5,147,648.00
2.	Rivers Construction Group LTD	$5,252,244.00
3.	Inliner Solutions, LLC	$5,323,647.00
4.	Anchor Construction Corporation	$5,458,397.00
5.	Sagres Construction Corporation	$5,957,381.00
6.	Commercial Utilities, LLC	$6,178,415.50
7.	Triangle Contracting, LLC	$6,302,290.00
8.	Flippo Construction Company, INC	$6,449,434.31
9.	United Construction Services	$6,647,698.15
10.	Ross Contracting, INC	$7,455,255.00

Docusign Envelope ID: 0893B8EF-2EC7-4DF7-B609-6A3047B3FA74

Project Map



Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 48551-106 for the Hyattsville Sewer Rehabilitation project in the amount of $4,347,130.00 to Inliner Solutions, LLC for a contract term of 389 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$4,347,130.00	**Contract Number:**	48551-106
Contract Term:	389 Days	**Project Location:**	☒Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The contract scope includes the repair, rehabilitation, or replacement of 2.38 miles of defective sewer mains and laterals in the Northwest Branch Basin, Montgomery and Prince George's Counties, Maryland. The work consists of:

- 6,927 linear feet (1.31 miles) of cured-in-place pipe (CIPP) lining
- 256 linear feet (0.05 miles) of pipe bursting
- 2,793 linear feet (0.53 miles) of open-cut replacement
- 2,601 linear feet (0.49 miles) of defective sewer lateral replacement
- Rehabilitation of 76 manholes

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

Fact sheets were mailed to impacted customers on April 11, 2025. A community outreach meeting will be scheduled 4 to 6 weeks (in October 2025) prior to the anticipated construction start date of 11/5/2025, with invitations sent to: • The Honorable Wanika Fisher, Prince George's County Council District 2 • The Honorable Eric Olsen, Prince George's County Council District 3 • The Honorable Kate Stewart, Montgomery County Council District 4

FY26 Budget:	$2,598,508.51	**FY27 Budget:**	$1,748,621.49
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	Hyattsville Sewer Rehabilitation
CIP Job Number:	CRCICKLRMH7178C21

Justification
The Hyattsville Road Sewer Rehabilitation project addresses deteriorating sewer infrastructure in the Northwest Branch Basin, which conveys wastewater to the Blue Plains Water Resource Recovery Facility. The 4-inch to 18-inch concrete gravity sewer mains and laterals, constructed between 1948 and 1961, show significant defects including root intrusion, infiltration, and grease buildup. Rehabilitation will restore system integrity, extend the service life of the sewer network, and reduce the risk of service disruptions and environmental impacts. This project is funded through a Maryland Department of the Environment loan.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

Awardee Information	
Contractor Name:	Inliner Solutions, LLC
Contract Amount:	$4,347,130.00
Business Location:	Hyattsville, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Empire Landscape, LLC Silver Spring, Maryland	Landscaping
Royale Construction, Inc. Bowie, Maryland	Concrete restoration
Sebco Contracting, LLC Davidsonville, Maryland	Manhole rehabilitation & pipe bursting
Adonai 7 Services, LLC Damascus, Maryland	Traffic control
CJF Construction, LLC College Park, Maryland	Manhole rehabilitation

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 48551-106 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by: Nina R Hickson 36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 27, 2025 | 12:05 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 1:29 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

DocuSigned by:
Munetsi T Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:13 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:20 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Sep 2, 2025 | 8:22 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Sep 4, 2025 | 8:18 AM EDT

Kishia L. Powell — **Date**
General Manager/CEO

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_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

WSSCWATER
DELIVERING THE ESSENTIAL

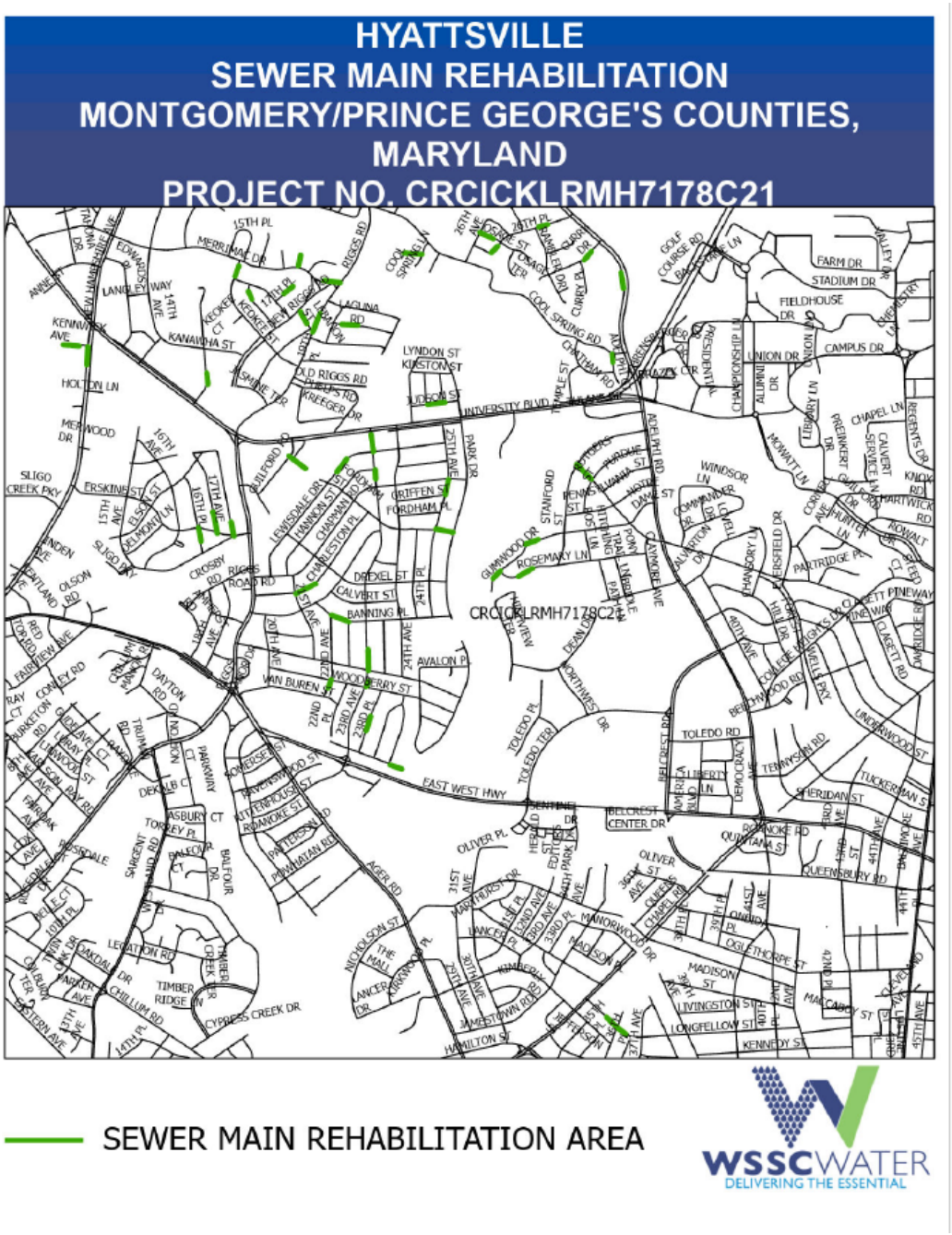
SOLICITATION NO: 48551-106	**DATE:** **TIME:** **LOCATION:**	5/13/2025 14:00:00 PM Online Discussion	
TITLE:	Hyattsville Sewer Rehabilitation		
ENGINEER'S ESTIMATE	**$3,326,071.15**	**RECORDED BY:**	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	**Inliner Solutions**	**$4,347,130.00**
2.	**Sagres Construction Corp**	**$4,847,791.00**
3.	**J. Fletcher Creamer & Son, Inc.**	**$6,678,287.00**

Docusign Envelope ID: 3303FD21-178E-4782-B0C3-E40668AE0020

WSSCWATER
DELIVERING THE ESSENTIAL

Project Map



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COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 64563, the University Park Sewer Rehabilitation Project, in the amount of $4,287,128.00 to Pessoa Construction Company. The contract term is 437 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$4,287,128.00	**Contract Number:**	64563
Contract Term:	437 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract includes the repair, rehabilitation, and replacement of approximately 2.23 miles of defective sewer mains and laterals in the Northeast Branch Basin of Prince George's County, Maryland. The work will be completed using multiple methods, including 7,506 linear feet (1.42 miles) of cured-in-place pipe (CIPP) lining, 4,281 linear feet (0.81 miles) of open-cut replacement, 2,015 linear feet (0.41 miles) of defective sewer lateral rehabilitation, and the repair or replacement of thirty-six (36) manholes. These improvements are critical to extending the life of the wastewater collection system, reducing inflow and infiltration, and protecting environmental and public health.

Customer engagement is an integral component of this project. Fact sheets were mailed to impacted residents on May 2, 2022, and a community outreach meeting was held on November 15, 2022. A second outreach meeting is anticipated to be held on October 8, 2025, prior to the projected start of construction on November 5, 2025. Invitations will be extended to the Honorable Wanika Fisher, Prince George's County Council District 2, and the

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

Honorable Eric Olson, Prince George's County Council District 3, to ensure local leadership remains informed and engaged.			
FY26 Budget:	$2,330,098.00	**FY27 Budget:**	$1,957,030.00
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	University Park Sewer Rehabilitation
CIP Job Number:	CRCICKLLLRMH6995A20

Justification
This project is in Prince George's County within the Sligo Creek Basin and conveys wastewater to the Blue Plains Water Resource Recovery Facility. The University Park Sewer Rehabilitation Project addresses the repair, replacement, and rehabilitation of 4-inch, 6-inch, 8-inch, 10-inch, 12-inch, and 15-inch concrete gravity sewer mains and laterals originally constructed between 1924 and 1955. Condition assessments identified significant deficiencies, including root intrusion, infiltration, and grease buildup, which compromise the reliability and performance of the system. Timely rehabilitation of these aging assets is essential to restoring system integrity, preventing sanitary sewer overflows, and protecting public health and the environment. The project is funded through a loan from the Maryland Department of the Environment.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

Awardee Information	
Contractor Name:	Pessoa Construction Company
Contract Amount:	$4,287,128.00
Business Location:	Fairmont Heights, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
CADED Consulting Corporation Gaithersburg, Maryland	Construction stakeout
Empire Landscape, LLC Silver Spring, Maryland	Street tree, grinding stump and surface roots and tree removal
SJ and Son Construction and Trucking, LLC Bowie, Maryland	Dump truck hauling, disposal and aggregate supplier

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 64563 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E90A427ED8B14C9...

Aug 27, 2025 | 12:08 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 1:25 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munesti T. Musara
66EC2C787AA4449...

Aug 27, 2025 | 10:49 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:16 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:18 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 28, 2025 | 4:32 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

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_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

WSSCWATER
DELIVERING THE ESSENTIAL

SOLICITATION NO: 64563		DATE: TIME: LOCATION:	4/24/2025 14:00:00 PM Online Discussion
TITLE:	University Park Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$3,529,881.15	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Pessoa Construction Company	$4,287,128.00
2.	Inliner Solutions, LLC	$4,660,128.00
3.	Commercial Utilities, LLC	$4,836,849.78
4.	Anchor Construction Corporation	$4,939,455.50
5.	Rivers Construction Group LTD	$5,292,360.00
6.	Ross Contracting, INC	$5,821,880.00
7.	Sagres Construction Corporation	$5,832,635.00

Docusign Envelope ID: 2A498DD0-9774-4618-9C4D-8DA62FB5613D

WSSCWATER
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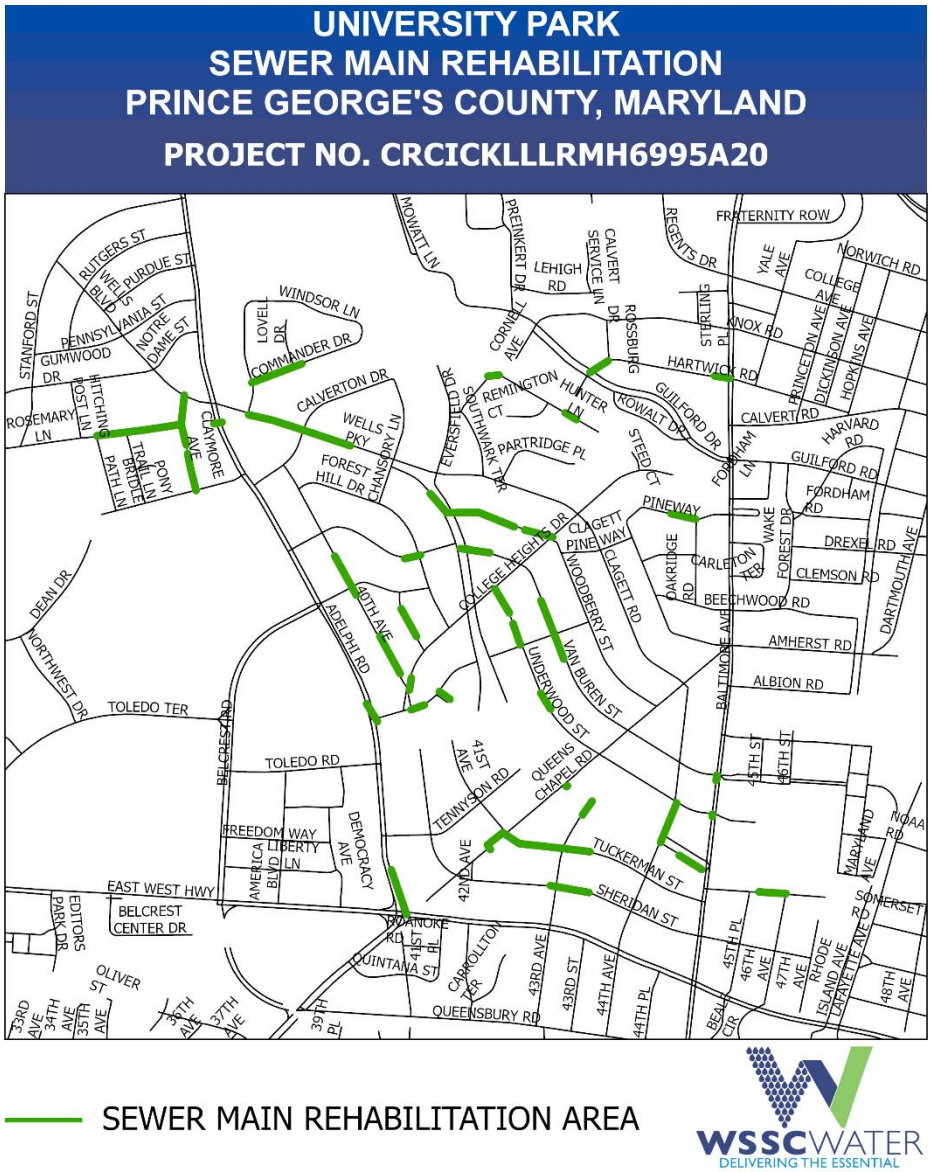
Project Map



Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 64562, Oxon Run Hills Sewer Rehabilitation, in the amount of $4,415,692.00 to Inliner Solutions, LLC, for a contract term of 450 calendar days.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$4,415,692.00	**Contract Number:**	64562
Contract Term:	450 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract includes the repair, rehabilitation, or replacement of 2.7 miles of defective sewer mains and laterals, utilizing approximately 8,100 linear feet (1.53 miles) of cured-in-place pipe (CIPP) lining, 2,795 linear feet (0.53 miles) of open-cut replacement, 2,990 linear feet (0.57 miles) of defective sewer lateral replacement, and 83 manholes located in the Oxon Run Basin, Prince George's County, Maryland.

A community outreach meeting will be held 4 to 6 weeks prior to the start of construction on October 8, 2025. A meeting invitation will be sent to, The Honorable Krystal Oriadha, Prince George's County Council District 7.

FY26 Budget:	$2,335,410.44	**FY27 Budget:**	$2,080,281.56
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

Capital Improvement Project (CIP)	
CIP Project Title:	Oxon Run Hills Roads Sewer Rehabilitation
CIP Job Number:	CRCILRMH7047B21

Justification
The project is in Prince George's County, within the Oxon Run Basin, and conveys wastewater to the Piscataway Water Resource Recovery Facility. The Oxon Run Hills Roads Sewer Rehabilitation project includes the repair, replacement, and rehabilitation of 6-inch and 8-inch concrete gravity sewer mains and laterals constructed between 1946 and 1972. Inspections revealed that the sewer mains have root intrusion, infiltration, and grease buildup. This project is funded through a Maryland Department of the Environment loan.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Inliner Solutions, LLC
Contract Amount:	$4,415,692.00
Business Location:	Beltsville, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Royale Construction Bowie, Maryland	Concrete and asphalt work
Adonai 7 Services, LLC Monrovia, Maryland	Traffic control
Sebco Contracting, LLC Bowie, Maryland	Lateral rehabilitation
Empire Landscape, LLC Silver Spring, Maryland	Landscaping

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 64562 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 27, 2025 | 12:26 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon Harley
0A75BF3AD966495...

Aug 27, 2025 | 10:08 AM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 11:54 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:53 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 29, 2025 | 3:16 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 31, 2025 | 6:32 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

WSSCWATER
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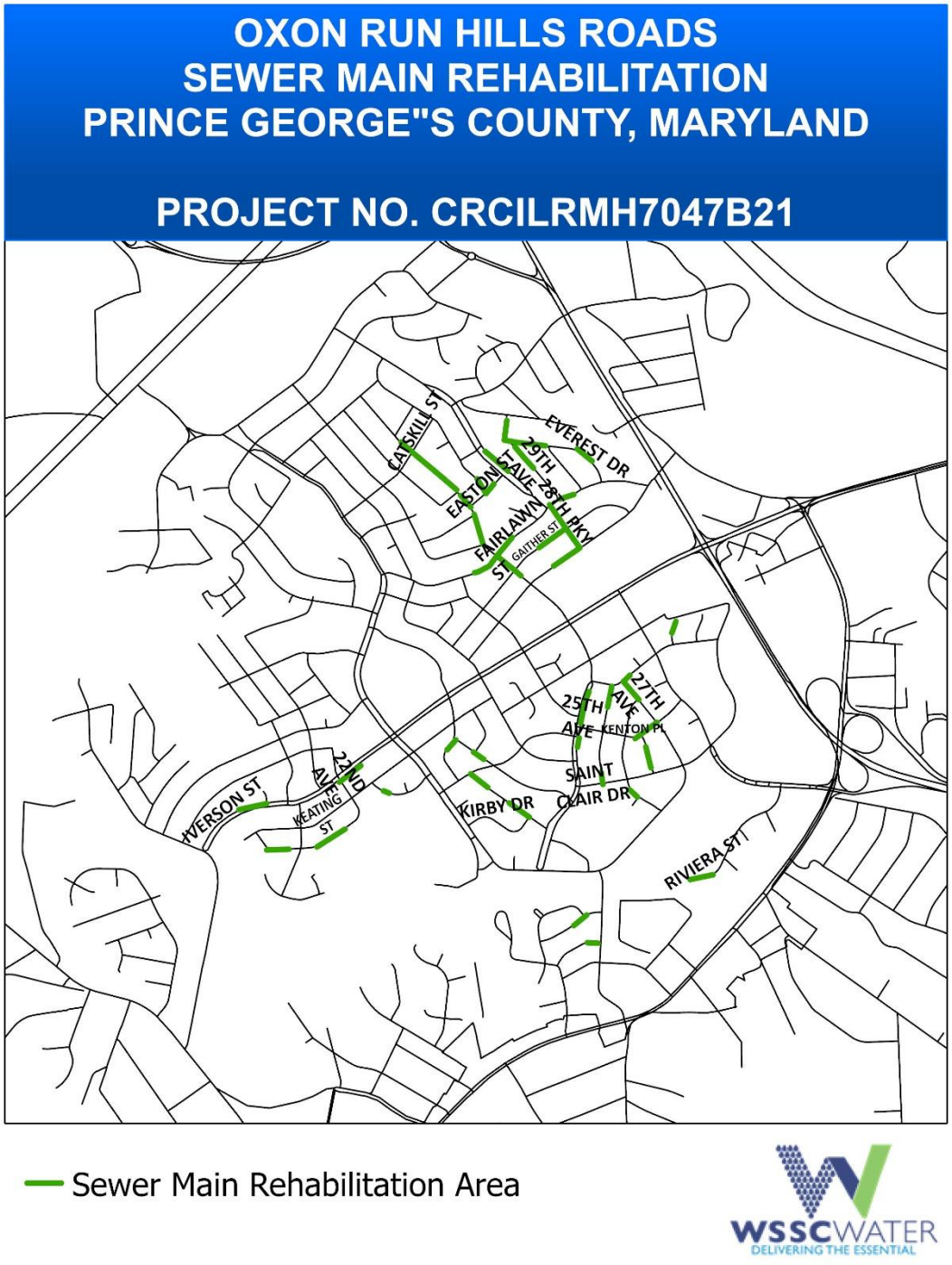
SOLICITATION NO: 64562		DATE: TIME: LOCATION:	4/15/2025 14:00:00 PM Online Discussion
TITLE:	Oxon Run Hills Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$3,964,502.43	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Inliner Solutions, LLC	$4,415,692.00
2.	Rivers Construction Group LTD	$5,405,703.89
3.	Commercial Utilities	$5,442,089.56
4.	Triangle Contracting LLC	$5,498,122.98
5.	Ross Contracting, Inc.	$6,224,020.56
6.	Sagres Construction Corporation	$7,890,891.21

Docusign Envelope ID: 59183AC6-F0BA-43AE-8E6D-55756CBA5038

WSSCWATER
DELIVERING THE ESSENTIAL

Project Map



Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 64564, the Hyattsville Road Sewer Rehabilitation Project, in the amount of $5,092,064.90 to Commercial Utilities, LLC. The contract will have a duration of 580 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$5,092,064.90	**Contract Number:**	64564
Contract Term:	580 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract involves the repair, rehabilitation, and replacement of approximately 17,635 linear feet (3.34 miles) of defective sewer mains and laterals in the Lower Anacostia Basin of Prince George's County, Maryland. This work represents a significant investment in the County's wastewater infrastructure and will employ a range of methods to ensure cost-effective and durable improvements, including 8,136 linear feet (1.54 miles) of cured-in-place pipe (CIPP) lining, 758 linear feet (0.14 miles) of pipe bursting, 5,370 linear feet (1.02 miles) of open-cut replacement, and 3,371 linear feet (0.64 miles) of defective sewer lateral rehabilitation, along with the repair or replacement of eighty-four (84) manholes. These improvements are essential to reducing inflow and infiltration, extending the useful life of the sewer system, and protecting both the environment and public health.

Customer engagement remains a priority throughout this project. Fact sheets were mailed to affected residents on September 19, 2023, and an initial community outreach meeting was held on November 15, 2023. A second

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

outreach meeting will be held four to six weeks (in October 2025) before the anticipated start of construction on 11/5/2025, to provide updates and address community concerns. Invitations will also be extended to the Honorable Wanika Fisher, Prince George's County Council District 2, and the Honorable Shayla Adams-Stafford, Prince George's County Council District 5, to ensure local leadership is fully engaged in the process.			
FY26 Budget:	$2,080,723.00	**FY27 Budget:**	$3,011,341.90
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	Hyattsville Road Sewer Rehabilitation
CIP Job Number:	CRCILLLRMH7247A21

Justification
This project is in Prince George's County within the Lower Anacostia Basin and conveys wastewater to the Blue Plains Water Resource Recovery Facility. The Hyattsville Road Sewer Rehabilitation Project addresses the repair, replacement, and rehabilitation of 4-inch, 6-inch, 8-inch, 10-inch, and 12-inch concrete gravity sewer mains and laterals originally constructed between 1919 and 1965. Condition assessments revealed significant issues, including root intrusion, infiltration, and grease buildup, all of which compromise system performance and reliability. Addressing these deficiencies is essential to restoring system integrity, protecting public health, and reducing the risk of sanitary sewer overflows. The project is supported through loan funding from the Maryland Department of the Environment.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

Awardee Information	
Contractor Name:	Commercial Utilities, LLC.
Contract Amount:	5,092,064.90
Business Location:	Hanover, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
P&P Sewer Techs, Inc. Fort Washington, Maryland	Manhole rehabilitation
Sandra Supplies, LLC. Bowie, Maryland	Dump truck hauling disposal & aggregate supplier
Daco Construction Corporation Severn, Maryland	Excavate locations, replace sewer mains & house connections, use suitable backfill materials, Geotech performing compaction testing, perform manhole rehabilitation

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 64564 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by: Nina R Hickson 36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E9BA427ED8B14C9...

Aug 27, 2025 | 12:07 AM EDT

Caville Stanbury-Woolery
Acting Chief Engineer

Date

Signed by:
Kiyon T. Harley
0A75BE3AD966495...

Aug 27, 2025 | 1:28 PM EDT

Kiyon Harley
Office of Supplier Diversity & Inclusion Director

Date

Signed by:
Munesti T. Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:06 PM EDT

Munetsi Timothy Musara
Chief Financial Officer

Date

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:18 AM EDT

Caprecia M. Poole-Williams
Chief Procurement Officer

Date

Signed by:
Aklile Tesfaye
729AA128TA544A4...

Aug 29, 2025 | 3:06 AM EDT

Aklile Tesfaye
Deputy General Manager of Operations

Date

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 31, 2025 | 6:36 PM EDT

Kishia L. Powell
General Manager/CEO

Date

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

SOLICITATION NO: 64564		DATE: TIME: LOCATION:	5/6/2025 14:00:00 PM Online Discussion
TITLE:	Hyattsville Road Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$4,575,921.42	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Commercial Utilities, LLC	$5,092,064.90
2.	Rivers Construction Group LTD	$5,676,155.00
3.	Inliner Solutions, LLC	$6,212,495.40
4.	Anchor Construction Corporation	$6,345,631.30
5.	Ross Contracting, Inc.	$7,146,140.00
6.	United Construction Services	$7,435,028.00
7.	Sagres Construction Corporation	$7,827,755.00

Docusign Envelope ID: 267797DB-1412-4A53-BCE9-F3438D928050

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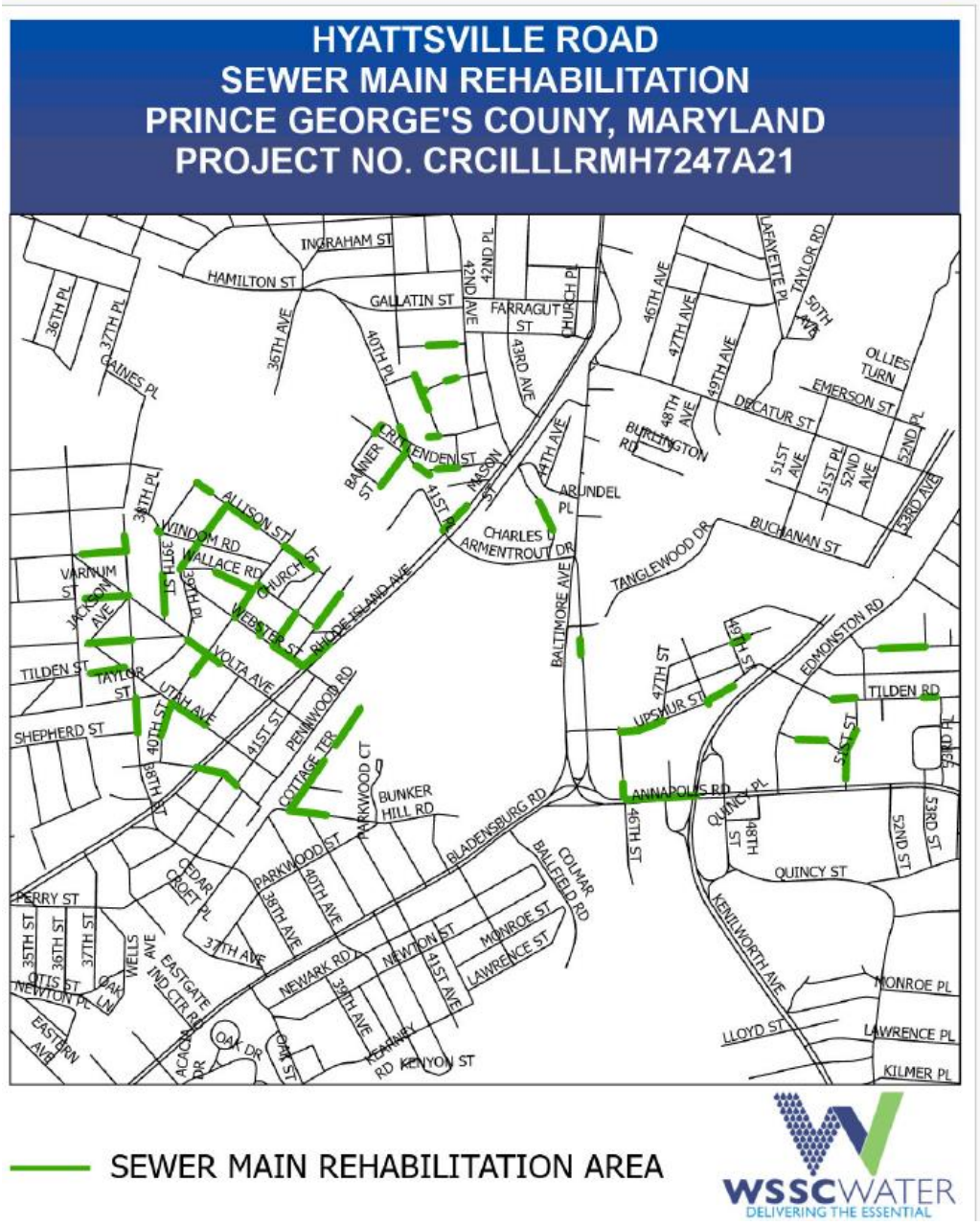
Project Map



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COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 48551-113, Suitland Road Sewer Rehabilitation, in the amount of $6,476,436.00 to Insituform Technologies, LLC, for a contract term of 447 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$6,476,436.00	**Contract Number:**	48551-113
Contract Term:	447 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract consists of the repair, rehabilitation, or replacement of 20,990 LF (4.73 miles) of defective sewer mains and laterals utilizing 9235 LF (1.75 miles) of cured-in-place pipe (CIPP) lining, 400 LF (0.076 miles) of pipe bursting, 863 LF (0.163 miles) of open-cut replacement, 371 LF (0.073 miles) of defective sewer laterals, and Eighty-Five (85) manholes located in the Broad Creek Basin, Prince George's County, Maryland.

The outreach meeting will be held 4 to 6 weeks prior to the start of construction. A meeting invitation will be sent to the Honorable Krystal Oriadha and the Honorable Edward Burroughs, Prince George's County Council District 7 and 8 Council Members.

FY26 Budget:	$1,476,436.00	**FY27 Budget:**	$4,000,000.00
FY28 Budget:	$1,000,000.00	**FY29 Budget:**	$

Capital Improvement Project (CIP)

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

CIP Project Title:	Suitland Roads Sewer Rehabilitation TO 113
CIP Job Number:	CRCILRMH7309A22

Justification
The project resides in Prince George's County in the Broad Creek basin and conveys wastewater to the Piscataway Water Resource Recovery Facility. Suitland Sewer Rehabilitation includes the repair, replacement, and rehabilitation of 6-inch, 8-inch, and 10-inch concrete gravity sewer main and laterals constructed between 1954 and 1980. During examination, it was discovered that the sewer mains have root intrusion, infiltration, and grease buildup. This is a Maryland Department of the Environment loan-funded project.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Insituform Technologies, LLC.
Contract Amount:	$6,476,436.00
Business Location:	Chesterfield, Missouri
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	**Summary of Services**
Arthur Engineering Services, LLC Laurel, Maryland	Traffic control
Daco Construction Corporation Severn, Maryland	Replace sanitary sewer pipe 8" at 0'-12' depth, Replace sanitary sewer pipe 8" at 12'-20' depth
CJF Construction, LLC College Park, Maryland	8" diameter sewer main pipe bursting

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 48551-113 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L. Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...
General Counsel's Office

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

Review and Approval

DocuSigned by:
Camille Stanbury-Woolery
E96A427ED8B14C9...

Aug 26, 2025 | 11:59 PM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Aug 27, 2025 | 1:22 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

DocuSigned by:
Munetsi T Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:23 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:29 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 29, 2025 | 3:49 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D248629DDEE450...

Aug 31, 2025 | 6:25 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

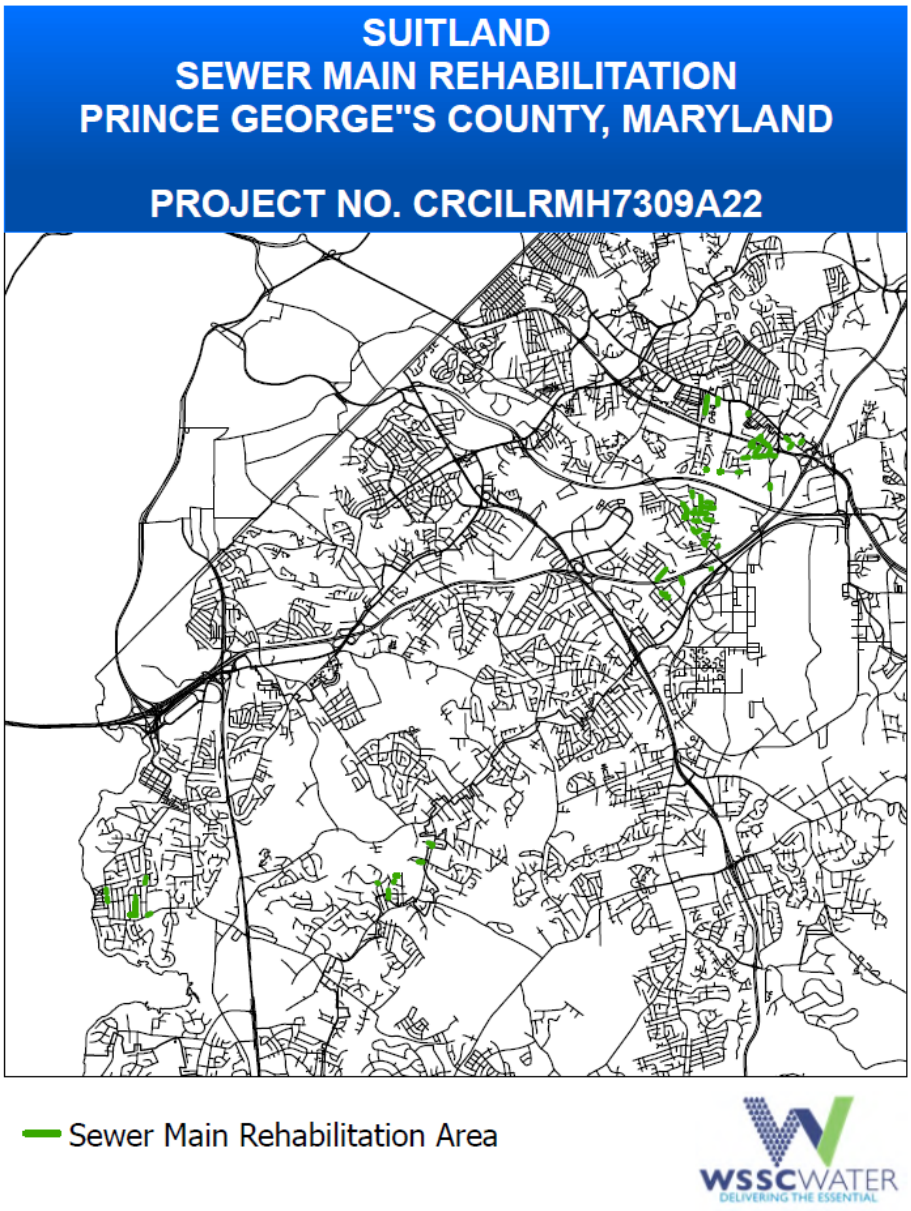
Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

SOLICITATION NO: 48551- 113		DATE: TIME: LOCATION:	5/6/2025 14:00:00 PM Online Discussion
TITLE:	Suitland Road Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$5,697,578.15	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	Insituform Technologies, LLC	$6,476,436.00
2.	Inliner Solutions	$8,221,893.00
3.	J. FLETCHER CREAMER & SON, INC.	$9,524,211.00
4.	Sagres Construction Corp	$9,773,983.00

Docusign Envelope ID: 482B3C43-D73F-4944-8FB0-86545A086750

Project Map



Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 48551-105 for the Mount Rainier Sewer Rehabilitation project in the amount of $5,053,292.00 to J. Fletcher Creamer & Son, Inc. for a contract term of 320 calendar days.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$5,053,292.00	**Contract Number:**	48551-105
Contract Term:	320 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The contract scope includes the repair, rehabilitation, or replacement of 1.81 miles of defective sewer mains and laterals in the Northwest Branch Basin, Prince George's County, Maryland. The work consists of:

- 3,173 linear feet (0.60 miles) of cured-in-place pipe (CIPP) lining
- 823 linear feet (0.16 miles) of pipe bursting
- 3,287 linear feet (0.62 miles) of open-cut replacement
- 2,266 linear feet (0.43 miles) of defective sewer lateral replacement
- Rehabilitation of 43 manholes

Fact sheets were mailed to impacted customers on April 11, 2025. A community outreach meeting will be scheduled 4 to 6 weeks (in October 2025) prior to the anticipated construction start date of 11/5/2025, with an invitation sent to the Honorable Wanika Fisher, Prince George's County Council District 2.

FY26 Budget:	$3,742,549.39	**FY27 Budget:**	$1,310,742.61
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

Capital Improvement Project (CIP)	
CIP Project Title:	Mount Rainier Sewer Rehabilitation
CIP Job Number:	CRCILRMH7178B21

Justification
The Mount Rainier Sewer Rehabilitation project addresses aging infrastructure in the Northwest Branch Basin that conveys wastewater to the Blue Plains Water Resource Recovery Facility. The 4-inch to 12-inch concrete and vitrified clay gravity sewer mains and laterals, constructed between 1922 and 1952, have significant deterioration, including root intrusion, infiltration, and grease buildup. Rehabilitation is necessary to restore structural integrity, prevent further system failures, and maintain regulatory compliance. This project is funded through a Maryland Department of the Environment loan.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A
Awardee Information	
Contractor Name:	J. Fletcher Creamer & Son, Inc.
Contract Amount:	$5,053,292.00
Business Location:	Hackensack, New Jersey
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Acorn Supply & Distributing, Inc. White Marsh, Maryland	Material supply
Royale Construction, Inc. Bowie, Maryland	Asphalt & concrete pavement restorations
Bota Consulting Engineers, Inc. Lanham, Maryland	Geotechnical services – testing & inspection of soils, compaction backfill, concrete & asphalt testing
Seeram Enterprise, LLC Upper Marlboro, Maryland	Provide equipment and personnel to haul, dump, and supply aggregates, asphalt, dirt, and related materials as needed, ensuring timely delivery, removal, and procurement to support project schedules and logistics.

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

RAM Construction, Inc. Olney, Maryland	Temporary help services
Daco Construction Corporation Severn, Maryland	Excavate locations, replace sewer house connections, use suitable backfill materials, perform compaction testing

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
TOTALS				

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 48551-105 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Curtis L Pinder Buyer's Initials: Initial CP

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☒ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E90A427ED8B14C9...

Aug 27, 2025 | 12:03 AM EDT

Caville Stanbury-Woolery
Acting Chief Engineer

Date

Signed by:
Kiyon T. Harley
0A75BF3AD906495...

Aug 27, 2025 | 10:59 PM EDT

Kiyon Harley
Office of Supplier Diversity & Inclusion Director

Date

DocuSigned by:
Munetsi T Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:19 PM EDT

Munetsi Timothy Musara
Chief Financial Officer

Date

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 6:23 AM EDT

Caprecia M. Poole-Williams
Chief Procurement Officer

Date

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Sep 2, 2025 | 8:23 AM EDT

Aklile Tesfaye
Deputy General Manager of Operations

Date

DocuSigned by:
Kpowell
D2484629DDEE450...

Sep 4, 2025 | 8:15 AM EDT

Kishia L. Powell
General Manager/CEO

Date

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

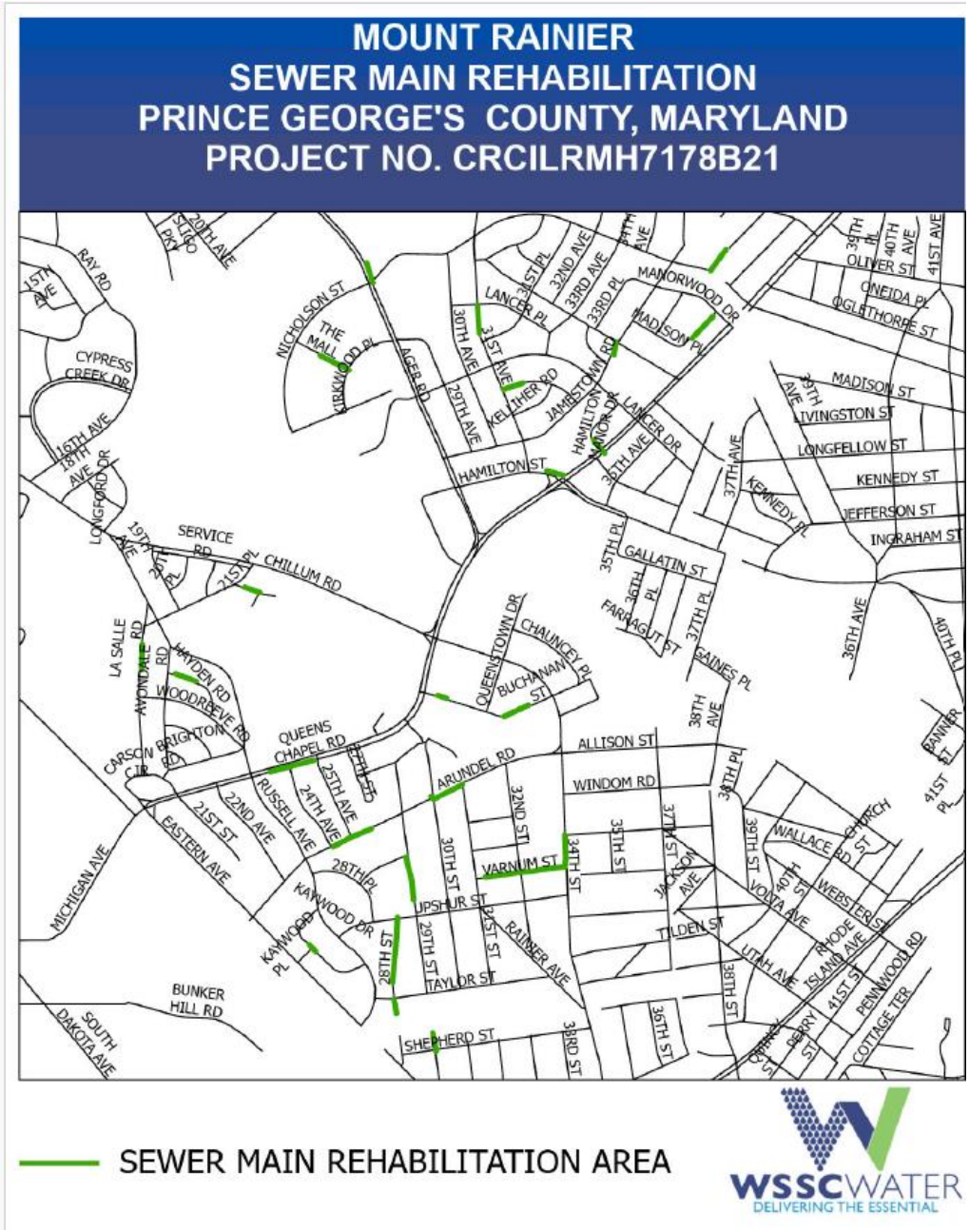
SOLICITATION NO: 48551-105		DATE: TIME: LOCATION:	5/1/2025 14:00:00 PM Online Discussion
TITLE:	Mount Rainier Sewer Rehabilitation		
ENGINEER'S ESTIMATE	$3,226,777.67	RECORDED BY:	C. Pinder

	NAME OF BIDDER	BID AMOUNT
1.	**J. Fletcher Creamer & Son, Inc.**	**$5,053,292.00**
2.	**Inliner Solutions**	**$5,457,342.50**
3.	**Sagres Construction Corp**	**$6,477,136.00**

Docusign Envelope ID: F911CB4E-B6CB-48E9-8BDE-A7DCC706AA83

WSSCWATER
DELIVERING THE ESSENTIAL

Project Map



Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to exercise Option Term No. 1 under Contract No. 29156, the Replacement Planning Basic Ordering Agreement, in the total amount of $2,000,000.00. The option term will be exercised with Ramboll Americas Engineering Solutions, Inc. in the amount of $1,000,000.00 and with Mott MacDonald LLC in the amount of $1,000,000.00. The contract term associated with this option is two years.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☐New Award ☒Option Term ☐Change Order ☐Other: _____	☒Architecture & Engineering ☐Construction ☐Goods & Services ☐Professional Services	☐Invitation for Bid ☐Multi-Step Invitation for Bid ☒Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☐Lowest Bid Price ☐Lowest Evaluated Bid Price ☒Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$2,000,000.00	**Contract Number:**	29156
Contract Term:	One Two-Year Option	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	One Two-Year Option		

Project Scope and Overview

The scope of this contract includes providing preliminary design services, which encompass, but are not limited to, the development and evaluation of alternatives, field investigations, preparation of cost estimates, identification of permit requirements, preliminary permitting, project scheduling, and property searches. The work also involves preparing easement and property plats, deeds for conveyance, and preliminary plans, profiles, and sections. In addition, the contractors will assist with community outreach related to the replacement of existing, and planning for new, water transmission mains, pumping facilities, water storage facilities, and sanitary force mains in Prince George's and Montgomery Counties, Maryland, on an as-needed basis.

FY26 Budget:	$1,000,000.00	**FY27 Budget:**	$1,000,000.00
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

Capital Improvement Project (CIP)	
CIP Project Title:	N/A
CIP Job Number:	N/A

Justification
This contract is essential to advancing the Commission's initiatives to replace aging Prestressed Concrete Cylinder Pipe (PCCP), pumping facilities, and sanitary force mains that have reached or are approaching the end of their service life. Timely execution of this work is critical to mitigating the risks of infrastructure failure, service disruptions, and costly emergency repairs. It directly supports the Commission's priorities of service delivery and operational reliability and resilience, with a specific focus on sustaining dependable water distribution and sanitary sewer conveyance for our customers. In addition, these efforts contribute to regulatory compliance, system modernization, and long-term cost efficiency. The selected consultants have a proven record of technical expertise and relevant experience, ensuring that the Commission has the professional support necessary to effectively plan and deliver these critical infrastructure improvements.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

Awardee Information	
Contractor Name:	Ramboll Americas Engineering Solutions, Inc.
Contract Amount:	$1,000,000.00
Business Location:	Bowie, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Chesapeake Environmental Management Belair, Maryland	Environmental services, stream restoration design
Soil & Land Use Technology Inc Glen Burnie, Maryland	Geotechnical engineering services
Essential Corrosion Protection Columbia, Maryland	Corrosion services
AB Consultants, Inc. Lanham, Maryland	Topographic land survey, subsurface utility engineering, site civil design
Phoenix Engineering, Inc. Hunt Valley, Maryland	Cost Estimating

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Mott MacDonald, LLC
Contract Amount:	$1,000,000.00
Business Location:	Hunt Valley, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

Subcontractors	Summary of Services
AB Consultants, Inc. Lanham, Maryland	Topographic survey, boundary survey, metes and plants, environmental assessment, waterways, wetlands and forest delineation, subsurface utility investigation test pitting and geotechnical engineering
Chesapeake Environmental Management Belair, Maryland	Topographic survey, boundary survey, metes and bounds, plats, environmental assessment, waterways, wetlands and forest delineation, subsurface utility investigation
The Robert B. Balter Company Owings Mills, Maryland	Geotechnical engineering

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$6,000,000.00	$6,000,000.00	Commission	6/15/2022
	TOTALS	$6,000,000.00		

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 29156 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E96A427ED8B14C9...

Aug 27, 2025 | 12:26 AM EDT

Caville Stanbury-Woolery — **Date**
Acting Chief Engineer

Signed by:
Kiyon Harley
0A75BE3AD966495...

Aug 27, 2025 | 10:09 AM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

DocuSigned by:
Munetsi T. Musara
66EC2C787AA4449...

Aug 27, 2025 | 10:43 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 27, 2025 | 5:51 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 27, 2025 | 9:29 PM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kpowell
D2484629DDEE450...

Aug 28, 2025 | 4:23 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: CB25313C-D18C-4B98-B55D-30077E8A2598

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 48133, Pipeline Design Division Basic Ordering Agreement, Change Order No. 1, in the amount of $8,000,000.00. The change order funding will be distributed among A. Morton Thomas & Associates, Inc., Wallace, Montgomery & Associates, LLP, The Wilson T. Ballard Company, and WSP USA, Inc. The contract provides for a three (3) year base term with one (1) additional two (2) year option term, to be exercised at the discretion of the Commission.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☐Goods & Services ☒Professional Services	☐Invitation for Bid ☐Multi-Step Invitation for Bid ☒Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☐Lowest Bid Price ☐Lowest Evaluated Bid Price ☒Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$8,000,000.00	**Contract Number:**	48133
Contract Term:	3 YRS	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	One, Two-Year Option Term		

Project Scope and Overview

The scope of this contract consists of providing engineering and design services for water and sewer pipelines and related appurtenances in support of WSSC Water's Smart One Water Mission. Services include preparing construction documents, evaluating existing infrastructure, and supporting planned system upgrades. The work also encompasses upgrading existing large meter vaults to current standards and designing and installing new vaults to enhance system performance, reliability, and operational efficiency.

FY26 Budget:	$3,000,000.00	**FY27 Budget:**	$3,000,000.00
FY28 Budget:	$2,000.000.00	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	Pipeline Design Division Basic Ordering Agreement
CIP Job Number:	N/A

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Justification
WSSC Water's Pipeline Design Division consists of four sections—Relocations, Water, Planning, and Sewer—that work collaboratively to manage the utility's existing water and sewer pipeline systems. The Division is responsible for four major initiatives that support WSSC Water's Smart One Water Mission: Water and Sewer Infrastructure Relocations, Replacement Planning, Water Pipeline Infrastructure Improvement and Rehabilitation, and Sewer Pipeline Infrastructure Improvement and Rehabilitation. This contract is intended to augment internal engineering resources to ensure the successful delivery of these programs.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A
Awardee Information	
Contractor Name:	A. Morton Thomas & Associates, Inc.
Contract Amount:	$1,250,000.00
Business Location:	Rockville, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
AB Consultants, Inc. Lanham, Maryland	Geotechnical, survey, utility, inspection, testing, cleaning, and engineering support services.
Benico, LLC Fulton, Maryland	Manhole Inspection, Field Inspections, and Engineering Support Service.
C.C. Johnson & Malholtra, P.C. Baltimore, Maryland	Mechanical Engineering, Electrical Engineering, Plumbing Engineering Support Services.
CV, Inc. Gaithersburg, Maryland	Survey, Subsurface Utility Engineering, and Peer Review Services.
Engineering Design Technologies, Inc. Glen Burnie, Maryland	Corrosion Design Services.
GHD Inc Bowie, Maryland	Quality Control Support Services.

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Martucks Consulting Glenn Dale, Maryland	Contract Compliance, Quality Assurance, and Community Outreach Services.
Mercado Consultants, Inc. Ashton, Maryland	Survey, Manhole Inspections, Field Inspections, and Engineering Support Services.
Phoenix Engineering, Inc. Parkton, Maryland	Cost Estimating and Engineering Support Services.

Awardee Information	
Contractor Name:	Wallace Montgomery & Associates
Contract Amount:	$1,250,000.00
Business Location:	Hunt Valley, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	**Summary of Services**
AB Consultants, Inc. Lanham, Maryland	Pipeline Inspection Support, Geotechnical Engineering, Surveying, Utility Locating, Test Holes.
CV, Inc. Gaithersburg, Maryland	Geotechnical Engineering, Surveying, Utility Locating, Test Hole, Peer Reviews.
Dacco Sci, Inc. Columbia, Maryland	Corrosion Analysis and Design.
Gipe Associates, Inc. Towson, Maryland	Mechanical and Electrical Design.
Mercado Consultants, Inc. Ashton, Maryland	Water and Sewer Design Support, Surveying, Maintenance of Traffic Design Support.
Phoenix Engineering, Inc. Parkton, Maryland	Cost Estimating.

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Awardee Information	
Contractor Name:	The Wilson T. Ballard Company
Contract Amount:	$2,950,000.00
Business Location:	Owings Mills Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
AB Consultants, Inc. Lanham, Maryland	Soil testing, utility surveys, easements, water/sewer design, CCTV, cleaning, smoke dye testing, and inspections.
Coastal Resources, Inc. Annapolis, Maryland	Environmental Permitting.
CV, Inc. Gaithersburg, Maryland	Utility Designating & Test Pitting, Surveying, Maintenance of Traffic Design.
Dacco Sci, Inc. Columbia, Maryland	Corrosion Analysis & Engineering.
Gannett Fleming, Inc. Owings Mills, Maryland	Water/Sewer Main Design, Construction Cost Estimating, Environmental Permitting, Traffic Control Design.
Mercado Consultants, Inc. Ashton, Maryland	Water/Sewer Main Design, Surveying, Easement Documents.
Phoenix Engineering, Inc. Parkton, Maryland	Construction Cost Estimating.

Awardee Information	
Contractor Name:	WSP USA, Inc.
Contract Amount:	$2,550,000.00
Business Location:	Baltimore Maryland

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
CV, Inc. Gaithersburg, Maryland	Surveying Services.
Engineering Design Technologies, Inc. Glen Burnie, Maryland	Corrosion Design Services.
Kim Engineering, Inc. Beltsville, Maryland	Geotechnical Engineering.
Phoenix Engineering, Inc. Parkton, Maryland	Cost Estimating Services.
Reviera Enterprises, Inc. Forestville, Maryland	Cleaning and CCTV Inspection.

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☒ Other (Describe below)

Other Justification(s): This change order is necessary to provide additional funding for continued engineering design services for the Pipeline Design Division. The change order is driven by the adoption of a new project delivery method, additional design requirements, and increased labor rates, which were not included in the original contract scope.

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$12,000,000.00	$12,000,000.00	Commission	9/18/2024
	TOTALS	$12,000,000,00		

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 48133 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

Review and Approval

DocuSigned by:
Caville Stanbury-Woolery
E90A427ED8B14C9...

Caville Stanbury-Woolery — Aug 27, 2025 | 12:16 AM EDT
Acting Chief Engineer — **Date**

Signed by:
Kiyon T. Harley
DA75BF3AD966495...

Kiyon Harley — Aug 27, 2025 | 10:14 AM EDT
Office of Supplier Diversity & Inclusion Director — **Date**

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Munetsi Timothy Musara — Aug 27, 2025 | 11:41 AM EDT
Chief Financial Officer — **Date**

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Caprecia M. Poole-Williams — Aug 27, 2025 | 6:02 AM EDT
Chief Procurement Officer — **Date**

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aklile Tesfaye — Aug 27, 2025 | 9:20 PM EDT
Deputy General Manager of Operations — **Date**

DocuSigned by:
Kpowell
B2484629DDEE450...

Kishia L. Powell — Aug 28, 2025 | 4:28 PM EDT
General Manager/CEO — **Date**

Docusign Envelope ID: C4BAE9B8-BE7B-4530-A520-58E3B8A5DE1C

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to exercise Option Term No. 1 under Contract No. 29231 for Wastewater Engineering Services, in the amount of $3,000,000.00. The option term will be exercised with Arcadis U.S., Inc. in the amount of $1,500,000.00 and AECOM Technical Services, Inc. in the amount of $1,500,000.00, for a contract duration of two years.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☐New Award ☒Option Term ☐Change Order ☐Other: _____	☒Architecture & Engineering ☐Construction ☐Goods & Services ☐Professional Services	☐Invitation for Bid ☐Multi-Step Invitation for Bid ☒Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☐Lowest Bid Price ☐Lowest Evaluated Bid Price ☒Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$3,000,000.00	**Contract Number:**	29231
Contract Term:	2 YRS	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	One, Two-Year Option		

Project Scope and Overview

The scope of this contract encompasses the development of a comprehensive strategy to address large-diameter sewer mains, force mains, and sewers located within wooded rights-of-way and environmentally sensitive areas in Prince George's and Montgomery Counties.

FY26 Budget:	$1,000,000.00	**FY27 Budget:**	$1,000,000.00
FY28 Budget:	$1,000,000.00	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	N/A
CIP Job Number:	N/A

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

Justification
The Wastewater Engineering Services contract is vital to the Commission's efforts to protect public health, the environment, and the long-term integrity of our wastewater infrastructure. This contract provides the technical expertise required to develop a comprehensive strategy for addressing large-diameter sewer mains, force mains, and sewers located within wooded rights-of-way and environmentally sensitive areas in Prince George's and Montgomery Counties. These services are essential to ensuring the safe, reliable, and compliant operation of the wastewater collection, conveyance, and treatment systems. They enable the Commission to proactively address aging infrastructure, plan for capacity improvements, meet stringent regulatory requirements, and preserve environmentally sensitive resources. Without this contract in place, the Commission would face significant risks, including delays in critical capital improvement projects, increased vulnerability to permit violations, higher operating and maintenance costs, and a greater likelihood of infrastructure failures. Such failures could result in environmental harm, costly emergency responses, and direct impacts to public health and safety.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A
Awardee Information	
Contractor Name:	Arcadis U.S., Inc.
Contract Amount:	$1,500,000.00
Business Location:	Laurel, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
TFE Resources, Ltd. Ventnor, New Jersey	CCTV & manhole field inspection services, Inflow & infiltration (I/I) source detection field services, & other services as needed
AB Construction, Inc. Lanham, Maryland	Traffic control plan, maintenance of traffic (MOT), construction support & other services needed
AB Consultants, Inc. Lanham, Maryland	Surveying, permitting support, condition assessment field services & other services as needed

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

Arthur Engineering Services, LLC Laurel, Maryland	Sewer cleaning and CCTV services as required.
Coastal Resources, Inc. Annapolis, Maryland	Stream crossing investigations, permitting support & other services as needed
Corrosion Probe, Inc. Centerbrook, Connecticut	Condition assessment & corrosion engineering support
DM Enterprises of Baltimore, LLC Baltimore, Maryland	Inspection, Geographic Information System support, modeling. data analysis, infiltration and inflow detection & other services, as needed
PICA Corporation (Pipeline Inspection & Condition Analysis Corp. USA) New Orleans, Louisiana	Pressure pipe inspection, leak & gas pocket detection, nondestructive testing, & other services as needed
Pure Technologies US, Inc. Columbia, Maryland	Force main, low-pressure sewers & PCCP condition assessment services, & other services as needed
Redzone Robotics, Inc. Pittsburgh, Pennsylvania	Multi-sensor CCTV, sonar, gas & laser inspection & other services as needed
Mobile Dredging & Video Pipe, Inc. Beltsville, Maryland	Sewer cleaning and CCTV services as required.
Savin Engineers, PC Landover, Maryland	CCTV & manhole field inspection services, I/I source detection field services, & other services as needed

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	AECOM Technical Services, Inc.
Contract Amount:	$1,500,000.00
Business Location:	Baltimore, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

Subcontractors	Summary of Services
Redzone Robotics, Inc. Pittsburgh, Pennsylvania	Large diameter pipeline assessments
Reviera Enterprises, Inc. Forestville, Maryland	Cleaning & CCTV Inspection, traffic control
Assedo Consulting, LLC Laurel, Maryland	Public Outreach, education, and engagement
EBA Engineering, Inc. Laurel, Maryland	QA/QC, sewer inspection & condition assessment

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$4,500,000.00	$4,500,000.00	Commission	11/16/2022
	TOTALS	$4,500,000.00		

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 29231 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

Review and Approval

DocuSigned by:
Glendon Diaz
F2CF1AC72BDE47C...

Aug 22, 2025 | 8:17 AM EDT

Glendon Diaz — **Date**
Director Utility Services

Signed by:
Kiyon Harley
0A75BF3AD066496...

Aug 22, 2025 | 1:19 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 23, 2025 | 4:10 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 22, 2025 | 8:32 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Aug 29, 2025 | 3:24 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

Signed by:
Nina R Hickson
3672F264CCA14E4...

Aug 31, 2025 | 9:08 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 1B5AE537-5AD5-46A4-AB27-E9390373BF2E

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Change Order No. 4 under Contract No. 29455 for Cleaning and Restoration Services in the total additional amount of $840,000.00. This change order increases the contract funding as follows: DMV Fire and Flood, LLC by $420,000.00, Duraforce Cleaning Service, Inc. by $225,000.00, and Mintsfield Restoration Services, LLC by $195,000.00. The contract term remains three years and includes services to be provided in both Montgomery and Prince George's Counties.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☒Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$840,000.00	**Contract Number:**	29455
Contract Term:	3 YRS	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	One, Two-Year Option		

Project Scope and Overview

This contract provides emergency, on-call services for professional cleaning restoration, and structural repairs to public buildings and private residences damaged by water main breaks, sewer backups, or other incidents caused by Commission-maintained infrastructure. Services are provided on an as-needed basis throughout Montgomery and Prince George's Counties, Maryland.

The work may include water extraction, sewage backup cleaning, asbestos tile and mastic removal, contents packing and moving, demolition, and other restoration activities necessary to return affected properties to serviceable condition.

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

FY26 Budget:	$840,000.00	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	
CIP Job Number:	

Justification
Cleaning and restoration services under this contract are critical to the Commission's ability to respond to emergencies such as water main breaks, sewer backups, and other incidents resulting from Commission maintained infrastructure. These incidents require rapid response to minimize property damage, protect public health, and maintain customer confidence. In recent months, large scale incidents have significantly increased service demand, making it essential to maintain the full support of all three vendors: DMV Fire and Flood, LLC, Duraforce Cleaning Service, Inc., and Mintsfield Restoration Services, LLC, to ensure 24/7 emergency response capability. Without the additional funding provided through this change order, the Commission's ability to respond quickly and effectively to emergencies would be severely limited, increasing the risk of prolonged service disruptions, property damage, environmental impacts, and loss of customer trust.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	DMV Fire and Flood, LLC
Contract Amount:	$420,000.00
Business Location:	Gaithersburg, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	**Summary of Services**
Islas General Cleaning Services, Inc.	Professional cleaning to include sewage backup cleaning, asbestos tile and mastic removal, contents packing and moving demolition services

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

Awardee Information	
Contractor Name:	Duraforce Cleaning Services, Inc.
Contract Amount:	$225,000.00
Business Location:	Beltsville, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Mintsfield Restoration Services, LLC	Provide emergency services for professional cleaning, restoration, and structural repairs, and emergency services for public building and private residence.

Awardee Information	
Contractor Name:	Mintsfield Restoration Services, LLC
Contract Amount:	$195,000.00
Business Location:	Laurel, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Duraforce Cleaning Services, Inc.	Provide emergency services for professional cleaning, restoration, and structural repairs, and emergency services for public building and private residence.

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☒ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s): This change order is necessary to ensure continuity of services for the remainder of the contract term, which extends through April 4, 2026. DMV Fire and Flood, LLC has exceeded its allocated funding and has been temporarily removed from the emergency response rotation. To maintain adequate coverage, additional funding is required both to redistribute work among the remaining vendors and to reinstate DMV Fire and Flood to the rotation.

The contract was originally awarded through a competitive procurement process, and all three vendors have demonstrated satisfactory performance. Issuing a change order to the existing contract is the most efficient and cost-effective approach to sustain uninterrupted emergency service coverage, avoid the delays associated with initiating a new procurement, and mitigate operational risks to the Commission's emergency response capabilities.

Contract Summary

Contract History:	Requested Amount:	Cumulative Amount:	Approved By:	Approval Date:
Original Contract Value	$4,500,000.00	$4,500,000.00	Commissioners	03/15/2023
Change Order No. 1 (Admin)	$0.00	$4,500,000.00	Chief Procurement Officer	05/10/2023
Change Order No. 2	$400,000.00	$4,900,000.00	Chief Procurement Officer	04/06/2023
Change Order No. 3	$100,000.00	$5,000,000.00	General Manager	08/11/2025
	TOTALS	$5,000,000.00		

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 29455 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____
General Counsel's Office

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

Review and Approval

Signed by:
Nina R Hickson
36721264CCA14E4...

Aug 21, 2025 | 9:23 AM EDT

Nina R. Hickson
General Counsel

Date

Signed by:
Kiyon Harley
0A75BF3AD966496...

Aug 21, 2025 | 7:55 PM EDT

Kiyon Harley
Office of Supplier Diversity & Inclusion Director

Date

DocuSigned by:
Munetsi T. Musara
66EC2C787AA4449...

Aug 22, 2025 | 10:50 AM EDT

Munetsi Timothy Musara
Chief Financial Officer

Date

DocuSigned by:
Caprecia MPoole-Williams
A42FEDB2CA544D0...

Aug 21, 2025 | 7:44 PM EDT

Caprecia M. Poole-Williams
Chief Procurement Officer

Date

DocuSigned by:
D2484629DDEE450...

Aug 28, 2025 | 4:41 PM EDT

Kishia L. Powell
General Manager/CEO

Date

Docusign Envelope ID: 25B8C83E-7A8F-442F-A6F3-80D5D9B071C6

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Change Order No. 4 to Contract No. 47494 for Automotive Body Shop Repair, Products, and Services for vehicles with a Gross Vehicle Weight (GVW) under 15,000 pounds, in the amount of $450,000.00, to Capital Transmission, Inc. This funding will ensure uninterrupted repair and restoration services for WSSC Water fleet vehicles through the remainder of the contract term.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☒Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$450,000.00	**Contract Number:**	47494
Contract Term:	Three Years	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	Two, One-Year Option Terms		

Project Scope and Overview

This contract provides automotive body shop repair services for passenger vehicles and light trucks (GVW under 15,000 pounds). Services include body repair, paint refinishing, framework, mechanical repairs, glass replacement, and related work. Parts used for repairs may be Original Equipment Manufacturer (OEM) or Aftermarket, as appropriate.

Repairs are performed to restore fleet vehicles to safe and serviceable condition, supporting uninterrupted operational readiness for WSSC Water field crews and administrative functions.

FY26 Budget:	$450,000.00	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

Capital Improvement Project (CIP)	
CIP Project Title:	
CIP Job Number:	

Justification
An additional $450,000.00 in funding is requested to continue repair services for damaged WSSC Water fleet vehicles. Over the past two years, there has been a significant increase in contract usage, primarily due to damage caused by both normal wear and tear and accidents. Repair costs have increased by nearly 82% during this period. Much of the cost increase is attributed to outlier incidents. For example, two dump trucks sustained major damage after falling into sinkholes caused by water main breaks. In addition, other fleet vehicles have been damaged while operating in extreme weather conditions. These incidents have resulted in substantial repair expenses. Further, the aging condition of the fleet has necessitated increased maintenance. Fleet Services has had to perform extensive body and framework repairs to keep older vehicles (those not yet funded for replacement) in safe and operational condition. Approval of this change order is essential for Fleet Services to continue making timely repairs, minimizing vehicle downtime, and ensuring the fleet remains fully functional to support WSSC Water operations.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Capital Transmission, Inc.
Contract Amount:	$450,000.00
Business Location:	Hyattsville, MD
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Not Applicable	Not Applicable

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☒ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$350,000.00	$350,000.00	CPO	July 14, 2023
Change Order No. 1	$200,000.00	$550,000.00	CPO	June 10, 2024
Change Order No. 2	$150,000.00	$700,000.00	CPO	November 6, 2024
Change Order No. 3	$50,000.00	$750,000.00	CPO	March 6, 2025
	TOTALS	$750,000.00		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 47494 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Olu Fawehinmi Buyer's Initials: Initial OF

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

Review and Approval

DocuSigned by:
Frederick Lees
F02852633FE14A4...

Aug 26, 2025 | 2:46 PM EDT

Frederick Lees — **Date**
General Services Director (Acting)

Signed by:
Kiyon Harley
0A75BF3AD980495...

Aug 26, 2025 | 7:59 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 27, 2025 | 12:03 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 26, 2025 | 4:29 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
9CF8A23C58BF4D2...

Aug 28, 2025 | 9:44 AM EDT

David McDonough — **Date**
Deputy General Manager, Mission Support

DocuSigned by:
D2484629DDEE450...

Aug 28, 2025 | 4:21 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 6813B77D-0345-401B-9172-E1852E61F27D

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Change Order No. 6 to Contract No. 16363 for the furnishing and delivery of No. 57 Stone, in the amount of $300,000.00 to L.E. Blue and Associates, Inc. This change order will provide additional funding to ensure uninterrupted supply and delivery of No. 57 Stone for the remainder of the contract term, through December 2025.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☒Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$300,000.00	**Contract Number:**	16363
Contract Term:	Three Years	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	Two, One-Year		

Project Scope and Overview

The scope of this contract consists of furnishing and delivering No. 57 Stones on an as-needed basis to WSSC Water facilities located in Montgomery and Prince George's Counties.

FY26 Budget:	$300,000.00	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	
CIP Job Number:	

Justification

No. 57 Stone is essential for WSSC Water's maintenance and repair operations. It is used by maintenance personnel for backfilling and construction restoration, as well as for roadway repair following water main breaks

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

and sewer main repairs. Over the course of this contract, demand for No. 57 Stone has increased significantly due to operational changes, including the Utility Services Team's transition from using Graded Aggregate Base (GAB) to No. 57 Stone as the primary backfill and restoration material.

OSDI Recommendation	
OSDI Concurrence:	☐ Yes ☐ No ☒ N/A

Awardee Information	
Contractor Name:	L. E. Blue and Associates, Inc.
Contract Amount:	$300,000.00
Business Location:	Beltsville, MD
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Not Applicable	Not Applicable

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☒ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s): The requested $300,000.00 is necessary to meet the increased quantities of No. 57 Stone required to support system reliability, timely restoration work, and compliance with operational standards. The shift from Graded Aggregate Base (GAB) to No. 57 Stone has resulted in higher annual consumption rates than originally projected at contract award. This change order will ensure that adequate funding is available to maintain uninterrupted supply for all WSSC Water facilities and job sites in Montgomery and Prince George's Counties through the end of the second option term in December 2025.

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Award	$2,618,400.00	$2,618,400.00	CPO	06/23/2020
Change Order No. 1 (Admin)	$0.00	$2,618,400.00	CPO	01/11/2023
Change Order No. 2	$399,487.50	$3,017,887.50	CPO	01/10/2023
Option Term 1	$872,800.00	$3,890,687.50	CPO	11/10/2023
Change Order No. 3 (Admin)	$0.00	$3,890,687.50	CPO	11/21/2023
Change Order No. 4 (Admin)	$0.00	$3,890,687.50	CPO	08/19/2024
Option Term 2 Award	$872,800.00	$4,763,487.50	CPO	10/21/2024
Change Order No. 5 (Admin)	$0.00	$4,763,487.50	CPO	07/01/2025
	TOTALS	**$4,763,487.50**		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 16363 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Ruby S. Coley Buyer's Initials: DS RSC

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

Review and Approval

DocuSigned by:
frederick.lees
F02852033EE14A4...

Aug 19, 2025 | 4:39 PM EDT

Frederick Lees — **Date**
General Services Director (Acting)

Signed by:
Kiyon Harley
0A75BF3AD966495...

Aug 19, 2025 | 7:41 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

DocuSigned by:
Munetsi T Musara
66EC2C787AA4449...

Aug 20, 2025 | 8:43 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 19, 2025 | 4:43 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
9CF8A23C68BF4D2...

Aug 20, 2025 | 10:12 AM EDT

David McDonough — **Date**
Deputy General Manager Mission Support

DocuSigned by:
D2484629DDEE450...

Aug 28, 2025 | 4:08 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 83FB7375-5AF9-4955-B5A3-6E0275FE7F0F

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 66581, Energy Management Services, in the amount of $1,590,000.00 to Energy Artisans, LLC, for a contract term of three (3) years, with two (2) one-year option terms. Funding requested is for the base term only.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☐Goods & Services ☒Professional Services	☐Invitation for Bid ☐Multi-Step Invitation for Bid ☒Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☐Lowest Bid Price ☐Lowest Evaluated Bid Price ☒Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$1,590,000.00	**Contract Number:**	66581
Contract Term:	Three Years	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	Two, One-Year Option Terms		

Project Scope and Overview

The contract provides professional energy management services to support the Commission's participation in the Pennsylvania–Jersey–Maryland (PJM) wholesale electricity market. The scope includes:

- Evaluating financial and technical opportunities to maximize capabilities for direct electricity market participation as a PJM subaccount electricity purchaser.
- Designing and implementing financial and technical business process systems for wholesale electric energy procurement through PJM market participation.
- Providing the energy management team with comprehensive energy market reviews, covering market structures, regulated and deregulated components, pricing markets and options, historical pricing trends, regulatory impacts, and renewable energy trends.

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

- Providing natural gas pipeline and Renewable Identification Number (RIN) accounting services for biogas injection and retail gas procurement, including balancing, source contracting, and billing tracking.
- Monitoring and reconciling natural gas supply and usage to ensure accurate invoicing, cost allocation, and execution of purchasing and delivery strategies.
- Preparing detailed monthly reports reflecting costs, purchases, sales, and Renewable Natural Gas (RNG) production and delivery.
- Developing feasibility studies for new technologies, including microgrids at Commission sites, with considerations for islanding, power reliability, and renewable integration.

FY26 Budget	$530,000.00	**FY27 Budget**	$530,000.00
FY28 Budget	$530,000.00		

Capital Improvement Project (CIP)	
CIP Project Title:	
CIP Job Number:	

Justification
WSSC Water procures electricity on a wholesale Pennsylvania–Jersey–Maryland (PJM) subaccount basis, which requires specialized account management, renewable generation integration, and technical oversight. The Commission is also a natural gas supplier, necessitating continual monitoring, balancing, and reconciliation of supply and usage. Additionally, WSSC Water is evaluating microgrid opportunities at major treatment facilities, requiring expert feasibility analysis. Awarding this contract ensures the Commission has the technical expertise and market insight needed to manage complex energy portfolios, optimize renewable integration, and enhance resilience through innovative energy solutions.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A
Awardee Information	
Contractor Name:	Energy Artisans, LLC
Contract Amount:	$1,590,000.00
Business Location:	Ellicott City, MD
Past Performance:	☐ Satisfactory ☒ No Past Performance

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

Subcontractors	Summary of Services
Paramount Energy Services, LLC Bel Air, Maryland	Providing reporting & issues tracking for PJM & other wholesale costs, budget analysis & projection, guidance on direct generation supply & integration to diversity the types of energy procured, technical assistance on natural gas supplier account
Celadon Technologies, LLC Rockville, Maryland	Professional engineering services, water & wastewater design, energy performance, & baseline models, measurements & verification (M&V) & general engineering support
Enelytics, LLC Gaithersburg, Maryland	Professional engineering services, water & wastewater design, energy performance, & baseline models, measurements & verification (M&V & general engineering support

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
	TOTALS	$		

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 66581 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Narcisse Atchamou Buyer's Initials: DS NA

Legal Form and Sufficiency Review

Contract award method:

☒ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...
General Counsel's Office

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

Review and Approval

DocuSigned by:
frederick.lees
F02852633EE14A4...

Aug 20, 2025 | 2:56 PM EDT

Frederick Lees — **Date**
General Services Director (Acting)

Signed by:
Kiyon Harley
0A75BF3AD986495...

Aug 21, 2025 | 8:14 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 22, 2025 | 10:35 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
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Aug 20, 2025 | 3:11 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
9CF8A23C58BF4D2...

Aug 26, 2025 | 9:36 AM EDT

David McDonough — **Date**
Deputy General Manager, Mission Support

DocuSigned by:
Kpowell
D248629DDEE450...

Aug 31, 2025 | 7:01 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: FF71830D-34A1-4996-83D4-83CA67106126

Bid Results

SOLICITATION NO: 66581	**DATE: 05/27/2025 TIME: 2:00 PM LOCATION: ONLINE DISCUSSION**	**BUYER NAME:** Narcisse Atchamou
SOLICITATION TITLE:	Energy Management Services	

	NAME OF BIDDER	DATE RECEIVED
1.	Energy Artisans, LLC	05/27/2025

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 77570 for Regular Cab and Chassis in the amount of $4,750,000.00 to Beltway International Trucks, LLC, utilizing the State of Maryland Department of General Services contract (BPO No. 001B3600262). The base term of the State contract runs from December 21, 2022, through December 22, 2025. WSSC Water will be riding the contract for the remainder of the base term (i.e., 3 months) and is seeking funding approval for this period only. The contract includes two additional one-year option terms and will require separate funding approval.

Contract Summary

<table>
<tr><th>Requested Action:</th><th>Contracting Area:</th><th>Procurement Type:</th><th>Competitively Bid:</th></tr>
<tr><td rowspan="2">☒New Award
☐Option Term
☐Change Order
☐Other: _____</td><td rowspan="2">☐Architecture & Engineering
☐Construction
☒Goods & Services
☐Professional Services</td><td rowspan="2">☐Invitation for Bid
☐Multi-Step Invitation for Bid
☐Request for Proposal
☒Other: Piggyback</td><td>☐Yes ☒No</td></tr>
<tr><td>Basis of Award:
☐Lowest Bid Price
☐Lowest Evaluated Bid Price
☐Most Responsible and Responsive Offeror
☒N/A</td></tr>
<tr><td>Requested Amount:</td><td>$4,750,000.00</td><td>Contract Number:</td><td>77570</td></tr>
<tr><td>Contract Term:</td><td>Three Months</td><td>Project Location:</td><td>☐Montgomery County
☐Prince George’s County
☒Both Counties
☐Other: _____</td></tr>
<tr><td>Option Term:</td><td colspan="3">Two, One-Year Option Terms</td></tr>
</table>

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

Project Scope and Overview			
The contract provides for the purchase of 2025 or newer International regular cab and chassis, type 19-22D, equipped with a full factory warranty. The vehicles may be sourced through factory orders, bailment pools, dealer inventory, or inbound units and must meet all manufacturer specifications. These trucks will be used to replace aging or out-of-service vehicles in WSSC Water's heavy fleet, ensuring reliable transportation for essential field operations, including maintenance, repairs, and emergency response. The contract scope includes the delivery of vehicles to WSSC Water and ensuring they are ready for service upon receipt.			
FY26 Budget:	$4,750,000.00	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)	
CIP Project Title:	
CIP Job Number:	

Justification
WSSC Water's heavy fleet plays a critical role in supporting daily operations of water and wastewater maintenance, repairs, and emergency response. A significant portion of the fleet is approaching or has surpassed its expected service life, leading to increased repair costs, reduced reliability, and the risk of operational delays due to vehicle downtime. In coordination with Fleet Servies' 5-year replacement plan, this contract will provide additional purchasing capacity for factory-warrantied International regular cab and chassis. Timely replacement of aging fleet assets will help control maintenance expenses, enhance operational reliability, and ensure that field crews have access to safe, dependable vehicles needed to perform essential water and sewer services without interruption.

OSDI Recommendation	
OSDI Concurrence:	☐ Yes ☐ No ☒ N/A
Awardee Information	
Contractor Name:	Beltway International Trucks, LLC
Contract Amount:	$4,750,000.00
Business Location:	Baltimore, MD

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
N/A	N/A

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 77570 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Eva Holguin Buyer's Initials: DS EH

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

Legal Form and Sufficiency Review

Contract award method:

☒ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
36721264CCA14E4...

General Counsel's Office

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

Review and Approval

DocuSigned by:
frederick.lees
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Aug 20, 2025 | 4:11 PM EDT

Frederick Lees — **Date**
General Services Director (Acting)

Signed by:
Kiyon Harley
0A75BF3AD966405...

Aug 21, 2025 | 7:57 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 22, 2025 | 10:46 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
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Aug 20, 2025 | 7:39 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
9CF8A23C68BF4D2...

Aug 26, 2025 | 9:38 AM EDT

David McDonough — **Date**
Deputy General Manager, Mission Support

DocuSigned by:
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Aug 31, 2025 | 6:54 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: F5242A7B-C50D-4180-954A-E1B7B0F03730

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval of Change Order No. 4 under Contract No. 47795, Temple Hills Depot Renovation, in the amount of $1,051,997.10 to Corenic Construction Group, LLC.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☒Construction ☐Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$1,051,997.10	**Contract Number:**	47795
Contract Term:	300 Days	**Project Location:**	☐Montgomery County ☒Prince George's County ☐Both Counties ☐Other: _____
Option Term:	N/A		

Project Scope and Overview

The scope of this contract includes the comprehensive renovation of the Temple Hills Depot, which consists of the original office and storage building, the high-bay garage, and the warehouse addition. The renovation work included installation of new HVAC equipment, upgraded plumbing systems and fixtures, new lighting fixtures, and upgraded electrical distribution equipment. Additional improvements feature the installation of energy-efficient low-e windows, reconfigured office spaces with new interior flooring, ceilings, and wall finishes, as well as the addition of new metal lockers, shelving, and replacement doors, frames, and hardware.

FY26 Budget:	$1,051,997.10	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	Temple Hills Depot Renovation
CIP Job Number:	AM7304A22

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

Justification
This change order is required to address unforeseen site conditions and scope modifications identified during the Temple Hills Depot Renovation. During construction, hazardous materials were encountered that required remediation to ensure safety and regulatory compliance. Additional modifications to the garage were also necessary, including installation of a new air conditioning system, new floor coatings, and new paint. Further adjustments included building power transfer, installation of a new duct bank from the PEPCO transformer to the building requiring temporary onsite generators, and other changes to Phase 2 of the project. These modifications were necessary to correct conditions unforeseen in design, maintain project schedule, and provide a safe and fully operational facility.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Corenic Construction Group LLC
Contract Amount:	$1,051,997.10
Business Location:	Bowie, Maryland
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Architectural Glass & Metal Contracting, Inc. Capital Heights, Maryland	To complete glass work required for this phased project
Century Painting, LLC Mitchellville, Maryland	To complete painting work required for this phased project, including the work at the swing space
RSC Electrical & Mechanical Contractors, Inc. Fairmont Heights, Maryland	HVAC per plans & specs
MDP Contracting, Inc. Beltsville, Maryland	To complete drywall work required for this phased project, including the work at the swing space

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☒ Unforeseen site changes ☒ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s): Approval of this change order with ensure the contractor is compensated for all the work completed under the existing competitively awarded contract. All the changes are directly tied to project needs and have enhanced the overall quality, safety, and functionality of the renovated facility.

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$4,945,954.00	$4,945,954.00	Commission	12/20/2023
Change Order No. 1	$0.00	$4,945,954.00	Chief Procurement Officer	3/28/2024
Change Order No. 2	$0.00	$4,945,954.00	Chief Procurement Officer	4/20/2024
Change Order No. 3	$330,000.00	$5,275,954.00	Chief Procurement Officer	2/13/2025
	TOTALS	$5,275,954.00		

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 47795 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Evita J. Fields Buyer's Initials: DS EJF

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

Review and Approval

DocuSigned by:
frederick.lees
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Sep 8, 2025 | 5:28 PM EDT

Frederick Lees — **Date**
Deputy Director, General Services

Signed by:
Kiyon T. Harley
0A75BF3AD966495...

Sep 9, 2025 | 11:32 AM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Sep 9, 2025 | 8:36 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
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Sep 10, 2025 | 3:39 AM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
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Sep 10, 2025 | 11:26 AM EDT

David McDonough — **Date**
Deputy General Manager, Mission Support

DocuSigned by:
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Sep 11, 2025 | 12:08 AM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: D0CD5C19-42AD-4001-88D4-C5D56D292006

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Change Order No. 5 to Contract No. 158522 for Subscriber Radios – Motorola Solutions, in the amount of $600,000.00, to Motorola Solutions, Inc. This funding will provide for the continued acquisition of radios, equipment, and related services to support WSSC Water's Police and Homeland Security Division operations.

Contract Summary

Requested Action:	**Contracting Area:**	**Procurement Type:**	**Competitively Bid:**
☐New Award ☐Option Term ☒Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☒Goods & Services ☐Professional Services	☐Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☒Other: Piggyback	☐Yes ☒No **Basis of Award:** ☐Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☒N/A
Requested Amount:	$600,000.00	**Contract Number:**	158522
Contract Term:	Three Years	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	(Two) Three-Year Option Terms		

Project Scope and Overview

This contract covers the purchase of Motorola subscriber radios and related services to meet the operational requirements of WSSC Water's Police and Homeland Security Division. The scope includes the procurement, configuration, and integration of radios into the existing communications network, as well as technical support, maintenance, and training to ensure the reliability and effectiveness of public safety communications.

FY26 Budget:	$120,000.00	**FY27 Budget:**	$120,000.00
FY28 Budget:	$120,000.00	**FY29 Budget:**	$120,000.00
FY30 Budget:	$120,000.00		

Capital Improvement Project (CIP)

CIP Project Title:	
CIP Job Number:	

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

Justification
This contract is critical for maintaining secure and reliable communication for WSSC Water's Police and Homeland Security Division and for ensuring seamless interoperability with County law enforcement agencies. Additional funding of $600,000.00 is necessary to continue purchasing Motorola radio equipment and services that support the agency's radio dispatch console system. Approval of this change order will ensure uninterrupted communications capabilities for public safety operations.

OSDI Recommendation	
OSDI Concurrence:	☐ Yes ☐ No ☒ N/A

Awardee Information	
Contractor Name:	Motorola Solutions, Inc.
Contract Amount:	$600,000.00
Business Location:	Chicago, IL
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Not Applicable	Not Applicable

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☒ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

Other Justification(s): Additional funding is required to purchase Motorola radio equipment and related services that are essential for the continued operation and support of WSSC Water's radio dispatch console system. These radios and services are necessary to maintain secure, reliable, and interoperable communications for WSSC Water's Police and Homeland Security Division, ensuring that public safety personnel can effectively coordinate with County law enforcement agencies during routine operations and emergency responses.

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$175,000.00	$175,000.00	CPO	October 13, 2022
Change Order No. 1 (Admin)	$0.00	$0.00	CPO	December 29, 2022
Change Order No. 2 (Admin)	$0.00	$0.00	CPO	March 11, 2023
Change Order No. 3	$103,625.00	$278,625.00	CPO	April 27, 2023
Option Term No. 1	$175,000.00	$453,625.00	CPO	May 16, 2024
Change Order No. 4	$321,413.56	$775,038.56	General Manager	July 1, 2024
	TOTALS	$775,038.56		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 158522 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Olu Fawehinmi Buyer's Initials: Initial OF

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

Review and Approval

Signed by:
Joe Edwards
5783781132D846E...

Aug 19, 2025 | 2:52 PM EDT

Joseph M. Edwards
Chief Information Officer

Date

Signed by:
Kiyon T. Harley
0A75BF3AD960495...

Aug 19, 2025 | 7:44 PM EDT

Kiyon Harley
Office of Supplier Diversity & Inclusion Director

Date

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 20, 2025 | 9:09 AM EDT

Munetsi Timothy Musara
Chief Financial Officer

Date

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 19, 2025 | 3:03 PM EDT

Caprecia M. Poole-Williams
Chief Procurement Officer

Date

DocuSigned by:
KPowell
D2404629DDEE450...

Aug 28, 2025 | 4:07 PM EDT

Kishia L. Powell
General Manager/CEO

Date

Docusign Envelope ID: CE6664D9-62B7-4A1E-8CE2-22ACE7FDFB51

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to exercise Option Term No. 2 under Contract No. 47602 for Professional Security Guard Services with Watkins Security Agency, Inc. in the amount of $1,511,328.00. The option term will be for a period of one (1) year.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☐New Award ☒Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☐Goods & Services ☒Professional Services	☐Invitation for Bid ☒Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$1,511,328.00	**Contract Number:**	47602
Contract Term:	One Year	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	Four, One-Year Option Terms		

Project Scope and Overview

The contract provides professional, uniformed unarmed and armed security guard services, along with a comprehensive security program for the Commission at WSSC-designated sites.

FY26 Budget:	$1,511,328.00	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Capital Improvement Project (CIP)

CIP Project Title:	
CIP Job Number:	

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

Justification
Contract security guards supplement the limited number of approved WSSC Water Security Officers, providing essential coverage at depots, water plants, and the Support Center. They maintain a continuous 24/7 presence at the Potomac Water Filtration Plant, Patuxent Water Filtration Plant, and Anacostia Depot. Utilizing contract guards is a cost-effective solution that ensures adequate protection for employees and critical infrastructure. This contract also provides the flexibility to quickly increase security presence in response to emerging risks, thereby strengthening the Commission's overall security posture.

OSDI Recommendation	
OSDI Concurrence:	☒ Yes ☐ No ☐ N/A

Awardee Information	
Contractor Name:	Watkins Security Agency, Inc.
Contract Amount:	1,511,328.00
Business Location:	Baltimore, MD
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
Tactical 1 Security Services LLC Baltimore, Maryland	Provide Security Guard Services

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s): N/A

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$1,417,561.60	$1,417,561.60	Commissioners	August 16, 2023
Option Term 1	$1,460,076.80	$2,877,638.40	Commissioners	September 18, 2024
Change Order No. 1 (Admin)	$0.00	$2,877,638.40	CPO	March 29, 2025
	TOTALS	$2,877,638.40		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 47602 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief, all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Eva Holguin Buyer's Initials: DS EH

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

Legal Form and Sufficiency Review

Contract award method:

☐ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☒ Not applicable (e.g. change order, option term)

_____

General Counsel's Office

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

Review and Approval

DocuSigned by:
Robert Maloney
6891011A71254F0...

Aug 19, 2025 | 2:11 PM EDT

Robert Maloney — **Date**
Police & Homeland Security Director

Signed by:
Kiyon Harley
0A75BF3AD986495...

Aug 19, 2025 | 7:45 PM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Aug 20, 2025 | 8:54 AM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Aug 19, 2025 | 2:16 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

DocuSigned by:
9CF8A23C58BF4D2...

Aug 26, 2025 | 9:39 AM EDT

David McDonough — **Date**
Deputy General Manager Mission Support

DocuSigned by:
D2484629DDEE450...

Aug 31, 2025 | 6:50 PM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: F250F7EB-2C58-4D69-B01C-1C19EE8C43A1

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

COMMISSION PACKAGE

Purpose of Request

This Commission Package requests approval to award Contract No. 70601 for the supply of methanol to Colonial Chemical Solutions, Inc., and to Maryland Chemical Company, Inc. in the amount of $2,122,212.96 for the base term of one year, with four one-year option terms. Approval is requested for funding the base term.

Contract Summary

Requested Action:	Contracting Area:	Procurement Type:	Competitively Bid:
☒New Award ☐Option Term ☐Change Order ☐Other: _____	☐Architecture & Engineering ☐Construction ☒Goods & Services ☐Professional Services	☒Invitation for Bid ☐Multi-Step Invitation for Bid ☐Request for Proposal ☐Other: _____	☒Yes ☐No **Basis of Award:** ☒Lowest Bid Price ☐Lowest Evaluated Bid Price ☐Most Responsible and Responsive Offeror ☐N/A
Requested Amount:	$2,122,212.96	**Contract Number:**	70601
Contract Term:	One Year	**Project Location:**	☐Montgomery County ☐Prince George's County ☒Both Counties ☐Other: _____
Option Term:	Four, One-Year Option Terms		

Project Scope and Overview

The contractors will supply and deliver 99.85% methanol to WSSC Water's Water Resource Recovery Facilities in Montgomery and Prince George's Counties on an as-needed basis to support wastewater treatment processes. All deliveries must meet the American Society for Testing and Materials (ASTM) D1152-97 specifications, be free from contaminants, and include a certificate of analysis.

The contractors will also provide the necessary unloading equipment, meet site-specific delivery requirements, and comply with WSSC safety, environmental, and delivery protocols at the Piscataway, Seneca, Parkway, and Western Branch facilities.

FY26 Budget:	$2,122,212.96	**FY27 Budget:**	$
FY28 Budget:	$	**FY29 Budget:**	$

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

Capital Improvement Project (CIP)	
CIP Project Title:	
CIP Job Number:	

Justification
Methanol is an essential chemical for meeting National Pollutant Discharge Elimination System (NPDES) permit limits for Total Nitrogen in treated effluent. It supports the biological denitrification process, which is critical for reducing nitrogen levels before discharge. Demand for methanol can fluctuate due to operational factors such as weather conditions, influent flow variations, and changes in nitrogen and hydrogen concentrations. Approval of funding for the base term will ensure WSSC Water maintains a reliable supply of methanol to meet permit requirements and protect water quality throughout the first year of the contract.

OSDI Recommendation	
OSDI Concurrence:	☐ Yes ☐ No ☒ N/A

Awardee Information	
Contractor Name:	Colonial Chemical Solutions, Inc.
Contract Amount:	TBD
Business Location:	Savannah, GA
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	Summary of Services
N/A	N/A

OSDI Recommendation	
OSDI Concurrence:	☐ Yes ☐ No ☒ N/A

Awardee Information	
Contractor Name:	Maryland Chemical Company, Inc.
Contract Amount:	TBD

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

Business Location:	Baltimore, MD
Past Performance:	☒ Satisfactory ☐ No Past Performance

Subcontractors	**Summary of Services**
N/A	N/A

Change Order Justification		
Goods and Services:	**Construction:**	**Professional Services or Architectural & Engineering:**
☐ Increased quantities ☐ Increased unit prices ☐ Other (Describe below)	☐ Unforeseen site changes ☐ Minor change in scope ☐ Scheduling impacts ☐ Design errors or omissions ☐ Other (Describe below)	☐ Increased hours ☐ Increased hourly rates ☐ Minor change in scope ☐ Scheduling impacts ☐ Other (Describe below)

Other Justification(s):

Contract Summary				
Contract History:	**Requested Amount:**	**Cumulative Amount:**	**Approved By:**	**Approval Date:**
Original Contract Value	$	$		
	TOTALS	$		

Statement of Determination and Findings

Based upon a thorough review and analysis of the Contractor's proposal and all other supporting documentation submitted by the Contractor, and in conjunction with the due diligence performed by the Procurement Office, I certify that the award of Contract No. 70601 is relevant, fair, and reasonable, and in the best interest of the Commission. To the best of my knowledge and belief all applicable regulatory and statutory provisions were adhered to when determining award.

Buyer: Eva Holguin Buyer's Initials: DS EH

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

Legal Form and Sufficiency Review

Contract award method:

☒ **Competitively awarded** - This contract has been reviewed and approved for legal form and sufficiency by the General Counsel's Office.

☐ **Competitively awarded with previously approved standard form** - The Procurement Office has notified the General Counsel's Office that this is a standard form contract previously approved for legal form and sufficiency by the General Counsel's Office and there are no deviations from the standard form

☐ **Exemption** - This contract was procured under an exemption from competition as provided for in the Procurement Regulations. The use of that exemption has been reviewed and approved for legal sufficiency.

☐ Not applicable (e.g. change order, option term)

Signed by:
Nina R Hickson
30721204CCA14E4...

General Counsel's Office

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

Review and Approval

Signed by:
Benjamin Thompson
075C8D0CEB85406...

Sep 3, 2025 | 1:46 PM EDT

Benjamin Thompson — **Date**
Interim Director of Production

DocuSigned by:
Kiyon T. Harley
0A75BF3AD906495...

Sep 4, 2025 | 10:15 AM EDT

Kiyon Harley — **Date**
Office of Supplier Diversity & Inclusion Director

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

Sep 3, 2025 | 4:14 PM EDT

Munetsi Timothy Musara — **Date**
Chief Financial Officer

DocuSigned by:
Caprecia Poole-Williams
A42FEDB2CA544D0...

Sep 3, 2025 | 1:48 PM EDT

Caprecia M. Poole-Williams — **Date**
Chief Procurement Officer

Signed by:
Aklile Tesfaye
729AA1281A544A4...

Sep 4, 2025 | 10:54 AM EDT

Aklile Tesfaye — **Date**
Deputy General Manager of Operations

DocuSigned by:
Kishia Powell
D2484629DDEE450...

Sep 6, 2025 | 7:21 AM EDT

Kishia L. Powell — **Date**
General Manager/CEO

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action.

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted to approve the above action with the following stipulations:

_____

_____

☐This is to certify that the Washington Suburban Sanitary Commission on this date voted not to approve the above action.

_____ / _____

COMMISSION **Date**

Docusign Envelope ID: 8BB38D6E-A7FD-4F25-A2E4-14064CF75BA9

Bid Results

SOLICITATION NO: 70601	**DATE: 06/23/2025** **TIME: 2:00 PM** **LOCATION: ONLINE DISCUSSION**	**BUYER NAME:** Eva Holguin
SOLICITATION TITLE:	Methanol	

	NAME OF BIDDER (PRIMARY SUPPLIER)	BID AMOUNT
1.	Colonial Chemical Solutions, Inc.	$2,122,212.96
2.	Maryland Chemical Co., Inc.	$2,694,873.60
3.	Catalynt Solutions, Inc.	$2,694,873.60
4.	Gasochem International, LLC	$3,671,765.28

	NAME OF BIDDER (SECONDARY SUPPLIER)	BID AMOUNT
1.	Colonial Chemical Solutions, Inc.	$1.877
2.	Maryland Chemical Co., Inc.	$2.533
3.	Catalynt Solutions, Inc.	$2.563
4.	Gasochem International, LLC	$3.248

Docusign Envelope ID: 3E8363D3-A875-4BAA-A57C-9BD22DD44188

WSSCWATER
DELIVERING THE ESSENTIAL

Interoffice Memorandum

TO: THE COMMISSION

THRU: KISHIA L POWELL
GENERAL MANAGER/CEO

DocuSigned by:
D2484629DDEE450...

THRU: MUNETSI T MUSARA
CHIEF FINANCIAL OFFICER

DocuSigned by:
66EC2C787AA4449...

FROM: RONG ZHAO
ACCOUNTING DIVISION MANAGER

DocuSigned by:
EBABC286DCF643E...

DATE: SEPTEMBER 17, 2025

SUBJECT: SCHEDULE TO APPROVE RATES

To set the new front foot benefit and house connection rates to be effective January 1, 2026, the following schedule is recommended:

11/05/25	Detailed advertisement of public hearing
11/19/25	Commission worksession on preliminary rate calculations
11/19/25	Public hearing* on front foot benefit and house connection rates (record remains open through 12/16/25 for comments)
12/17/25	Commission approval of rates
01/01/26	Rates take effect

A worksession between Accounting Division staff and Maryland-National Capital Building Association on the rate calculations will be held prior to December 17.

*The Commission should decide on the time for the hearing. A time of 2:30 P.M. on November 19th hearing date is recommended. The Accounting Division will coordinate the publication of the notices of public hearing with the Office of Communications and Community Relations.

WSSCWATER
DELIVERING THE ESSENTIAL

COMMISSION SUMMARY

AGENDA CATEGORY: Finance Office

ITEM NUMBER: **DATE: September 17, 2025**

SUBJECT	Briefing/Action
SUMMARY **SPECIAL COMMENTS**	New front foot benefit and house connection rates will be effective as of January 1, 2026. The approval process includes one Commission worksession, advertisement of the proposed rates and a public hearing. A proposed schedule for the timing of the rate setting process is attached.
CONTRACT NO./ REFERENCE NO.	
COSTS	
AMENDMENT/ CHANGE ORDER NO. AMOUNT	
MBE PARTICIPATION	
PRIOR STAFF/ COMMITTEE REVIEW **PRIOR STAFF/ COMMITTEE APPROVALS**	KISHIA L POWELL, General Manager/CEO MUNETSI T MUSARA, Chief Financial Officer
RECOMMENDATION TO COMMISSION	Select date and time for public hearing and approve schedule as proposed.
COMMISSION ACTION	

WSSCWATER
DELIVERING THE ESSENTIAL

Interoffice Memorandum

TO: COMMISSIONERS

FROM: JULIANNE M. MONTES DE OCA
CORPORATE SECRETARY

DATE: SEPTEMBER 10, 2025

SUBJECT: FRONT FOOT BENEFITS AND HOUSE CONNECTION RATE PUBLIC HEARING DATE AND HEARING OFFICER

Per the prior memo, the Finance Team has recommended November 19, 2025, for the Front Foot Benefits and House Connection Rate Public Hearing. November 19 is the date of the November Commission Meeting. Although I hope that the November 19 Commission Meeting will be complete well before 2:30 PM, to reduce stress and to eliminate the possibility of one Commissioner having to leave the dais to conduct the hearing, I recommend the hearing date be set for November 20, 2025. The Finance Team has confirmed that they are available on the 20th.

Commissioner Foster has agreed to serve as hearing officer.

Docusign Envelope ID: C26A0948-7BA0-471E-BDB7-8AF03248B575

WSSCWATER
DELIVERING THE ESSENTIAL

COMMISSION SUMMARY

AGENDA CATEGORY: Finance Office

ITEM NUMBER: **DATE:** September 17, 2025

SUBJECT	Approve Proposed FYs 2027-2032 Capital Improvements Program (CIP) and Transmittal to County Governments
SUMMARY **SPECIAL COMMENTS**	Section 23-304 of the Public Utilities Article requires WSSC Water to prepare, and submit to Montgomery and Prince George's Counties, a Proposed Capital Improvements Program by October 1 of each year. This action approves the Proposed FYs 2027-2032 CIP. Upon approval, the Proposed CIP will be transmitted to both the County Governments as required.
CONTRACT NO./ REFERENCE NO.	Not applicable.
COSTS	The Proposed FYs 2027-2032 CIP has a six-year program cost of $4,831,923,000
AMENDMENT/ CHANGE ORDER NO. AMOUNT	Not applicable.
MBE PARTICIPATION	Not applicable.
PRIOR STAFF/ COMMITTEE REVIEW **PRIOR STAFF/ COMMITTEE APPROVALS**	Kishia L. Powell, General Manager/CEO Munetsi Timothy Musara, CPA, Chief Financial Officer Letitia Carolina-Powell, Division Manager, Budget DocuSigned by: D2484629DDEE450... Signed by: 66EC2C787AA4449... DocuSigned by: 51E73B6EB6E645C...
RECOMMENDATION TO COMMISSION	Approve.
COMMISSION ACTION	

Docusign Envelope ID: C26A0948-7BA0-471E-BDB7-8AF03248B575

WSSCWATER
DELIVERING THE ESSENTIAL

COMMISSIONERS
Mark J. Smith, Chair
Jonathan W. Powell, Vice Chair
Fausto R. Bayonet
Lynnette D. Espy-Williams
T. Eloise Foster
Regina Y. Speed-Bost

GENERAL MANAGER
Kishia L. Powell

INTEROFFICE MEMORANDUM

TO: COMMISSIONERS

THRU: KISHIA L. POWELL
GENERAL MANAGER/CEO

DocuSigned by:
D2484629DDEE450...

FROM: MUNETSI TIMOTHY MUSARA, CPA
CHIEF FINANCIAL OFFICER

Signed by:
Munetsi Timothy Musara
66EC2C787AA4449...

DATE: September 17, 2025

SUBJECT: FISCAL YEARS 2027-2032 PROPOSED CAPITAL IMPROVEMENTS PROGRAM (CIP)

Section 23-304 of the Public Utilities Article requires WSSC Water to prepare, and submit to Montgomery and Prince George's Counties, a Proposed Capital Improvements Program (CIP) before October 1 of each year. The purpose of this memo is to update you on the status of the FYs 2027-2032 Proposed CIP.

Our CIP Public Hearings were held on September 10, 2025 in Rockville and September 11, 2025 in Largo. All comments received through the close of the public hearing record at noon on September 16, 2025 are included.

We request that you approve the document as proposed and, if approved, the document will be transmitted to the two Counties as required.

Attachment

Docusign Envelope ID: C26A0948-7BA0-471E-BDB7-8AF03248B575

DATE: October 1, 2025

FINANCIAL SUMMARY

(ALL FIGURES IN THOUSANDS)

EXPENDITURE PROJECTIONS

PROJECT SUMMARY	EST. TOTAL COST	EXPEND THRU 25	EST. EXPEND 26	TOTAL SIX YEARS	EXPENDITURE SCHEDULE						BEYOND SIX YEARS	PAGE NUM
					YEAR 1 FY27	YEAR 2 FY28	YEAR 3 FY29	YEAR 4 FY30	YEAR 5 FY31	YEAR 6 FY32		
Montgomery County Water Projects	13,979	1,623	7,764	4,592	2,386	1,469	316	210	106	105	-	1-1
Prince George's County Water Projects	237,725	70,086	30,763	124,602	20,819	30,617	25,815	19,159	17,554	10,638	1,524	5-1
Bi-County Water Projects	990,642	189,592	85,244	615,006	75,335	78,414	98,884	123,733	125,857	112,783	100,800	3-1
TOTAL WATER PROJECTS	**1,242,346**	**261,301**	**123,771**	**744,200**	**98,540**	**110,500**	**125,015**	**143,102**	**143,517**	**123,526**	**102,324**	
Montgomery County Sewer Projects	93,450	4,374	11,291	77,785	20,028	8,914	13,385	17,090	16,952	1,416	-	**2-1**
Prince George's County Sewer Projects	698,534	264,968	49,263	364,222	71,549	93,760	99,767	76,219	17,721	5,206	-	6-1
Bi-County Sewer Projects	1,806,972	358,154	130,613	1,075,737	138,580	229,335	209,461	186,257	159,289	152,816	242,467	4-1
TOTAL SEWER PROJECTS	**2,598,956**	**627,496**	**191,167**	**1,517,744**	**230,157**	**332,009**	**322,613**	**279,566**	**193,962**	**159,438**	**242,467**	
TOTAL CIP PROGRAM	**3,841,302**	**888,797**	**314,938**	**2,261,944**	**328,697**	**442,509**	**447,628**	**422,668**	**337,479**	**282,964**	**344,791**	
Information Only Projects	2,959,994	44,059	345,627	2,569,979	430,631	407,543	411,896	411,181	441,361	467,368	-	7-1
COMBINED PROGRAM	**6,801,296**	**932,856**	**660,565**	**4,831,923**	**759,328**	**850,052**	**859,524**	**833,849**	**778,840**	**750,332**	**344,791**	

FUNDING PROJECTIONS

SOURCE	EST. TOTAL FUNDING	FUNDING THRU 25	EST. FUNDING 26	TOTAL SIX YEARS	FUNDING SCHEDULE						BEYOND SIX YEARS
					YEAR 1 FY27	YEAR 2 FY28	YEAR 3 FY29	YEAR 4 FY30	YEAR 5 FY31	YEAR 6 FY32	
WSSC Bonds	5,092,123	854,817	460,504	3,547,211	493,214	616,569	667,296	631,811	579,524	558,796	229,592
PAYGO	889,465		50,600	718,865	97,881	108,157	115,956	124,650	132,733	139,488	120,000
State Grants	426,239	578	92,439	333,222	133,074	85,284	28,716	28,716	28,716	28,716	-
System Development Charges	263,511	68,094	39,553	143,590	16,620	19,001	26,785	35,581	29,651	15,952	12,274
Contributions/Other	38,730	7,561	9,023	22,146	9,640	5,873	5,105	1,401	64	63	-
Government Contributions	91,229	1,807	8,446	66,889	8,899	15,168	15,666	11,690	8,152	7,317	14,086
Federal Grants	-	-	-	-	-	-	-	-	-	-	-
COMBINED PROGRAM	6,801,296	932,856	660,565	4,831,923	759,328	850,052	859,524	833,849	778,840	750,332	375,952

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Performance Indicators

Customer Service Department

John Curry, Director of Customer Service

September 17, 2025

PRESENTATION FOR INFORMATIONAL PURPOSES

Agenda

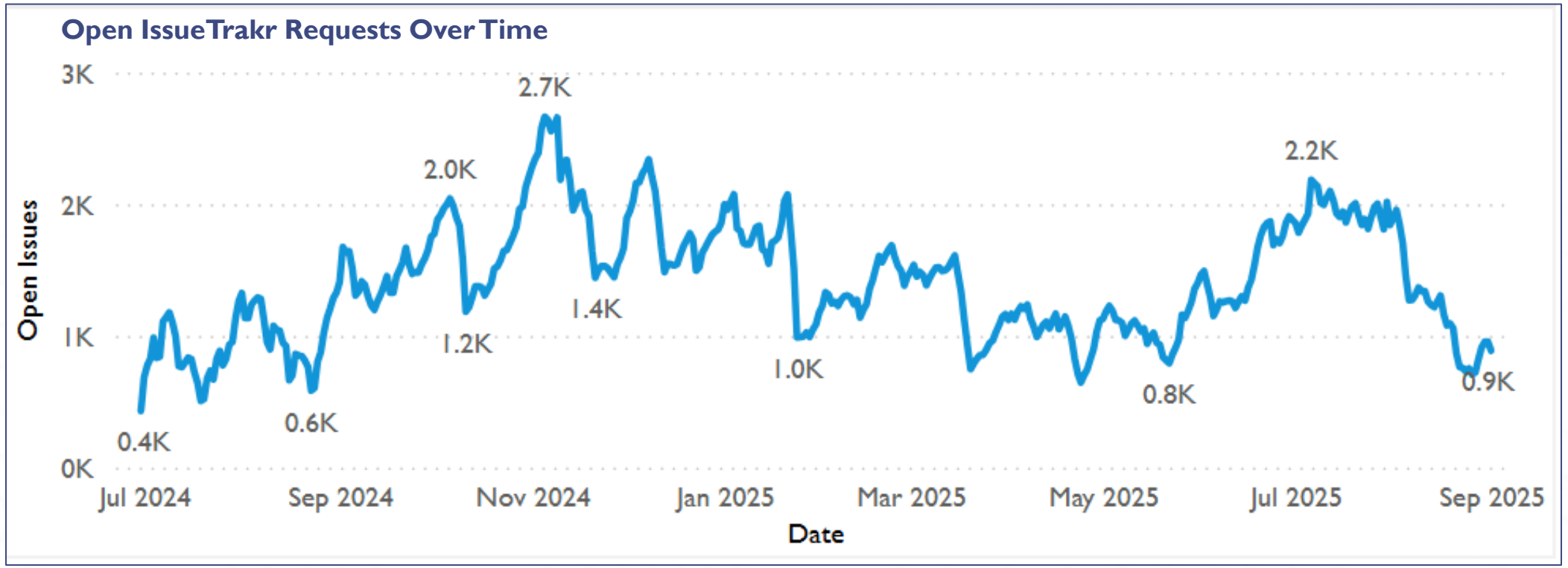
- Call Center Metrics
- Customer Emails & Start/Stops
- Customer Payments
- Delinquent Accounts
- Turnoffs & Turnons
- Get Current 2.0 Update

Call Center Metrics

Metric	September 2021	June 2025	July 2025	August 2025
Average Speed of Answer	~29 minutes	~5 minutes	~3 minutes	~5 minutes
Average Handle Time	N/A	~9 minutes	~9 minutes	~10 minutes
Call Answer Rate	49%	93%	94%	92%
Calls Not Answered	51%	7%	6%	8%
Total Calls for Month	63,240 (3,011 daily avg)	26,942 (1,347 daily avg)	31,446 (1,429 daily avg)	31,461 (1,498 daily avg)

Customer Emails & Start/Stops

- FY26 YTD, Customer Service closed 14,980 issues, with an average 5 days open
- As of September 1, there were 967 open issues, at an average of 2 days

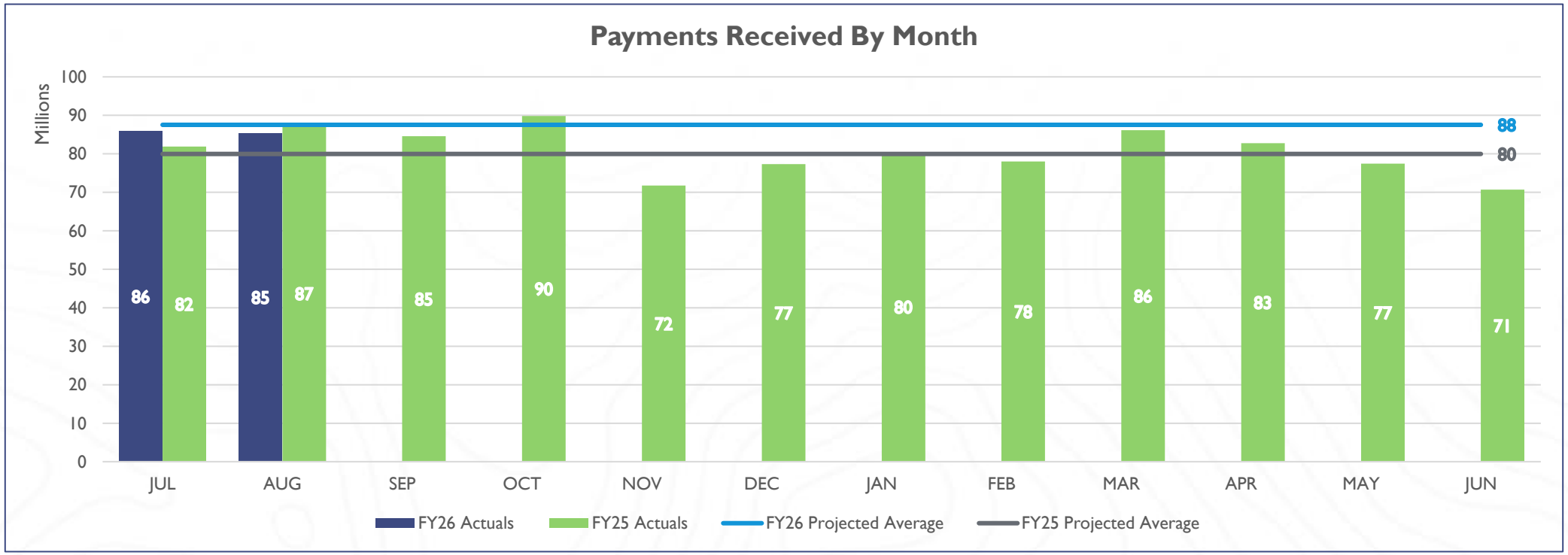


Customer Payments

In August 2025, we received $85M in customer payments

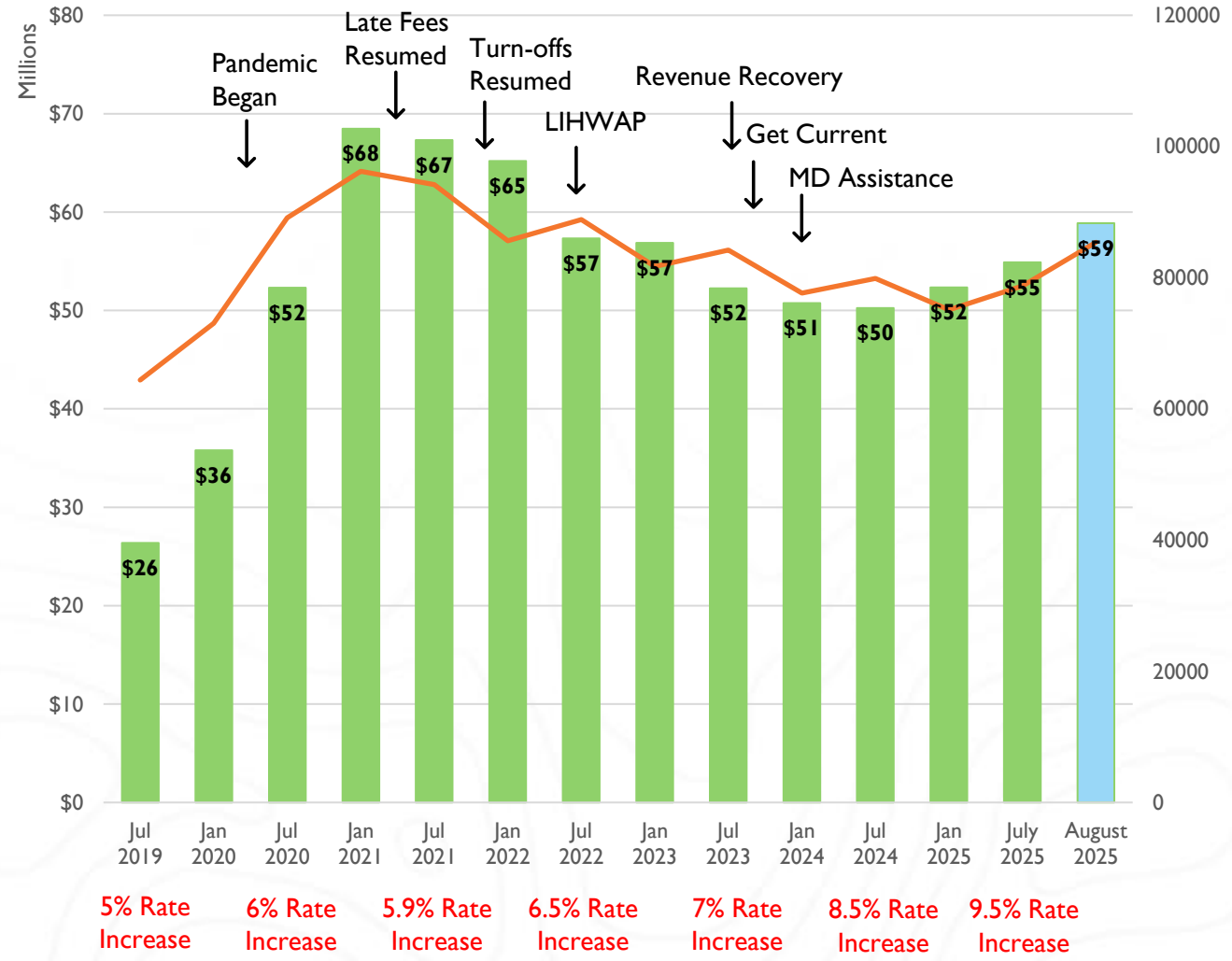
FY2026 YTD payments total approximately $171M

- $2M more compared to $169M during July through August FY2025

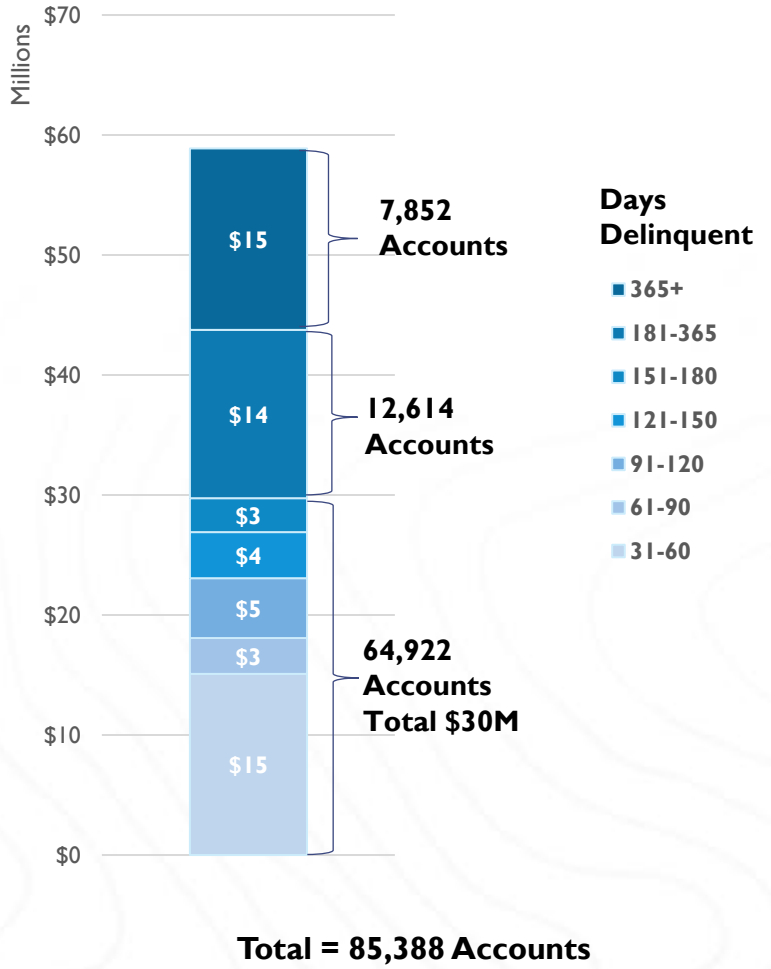


Delinquent Accounts

Delinquent Account History



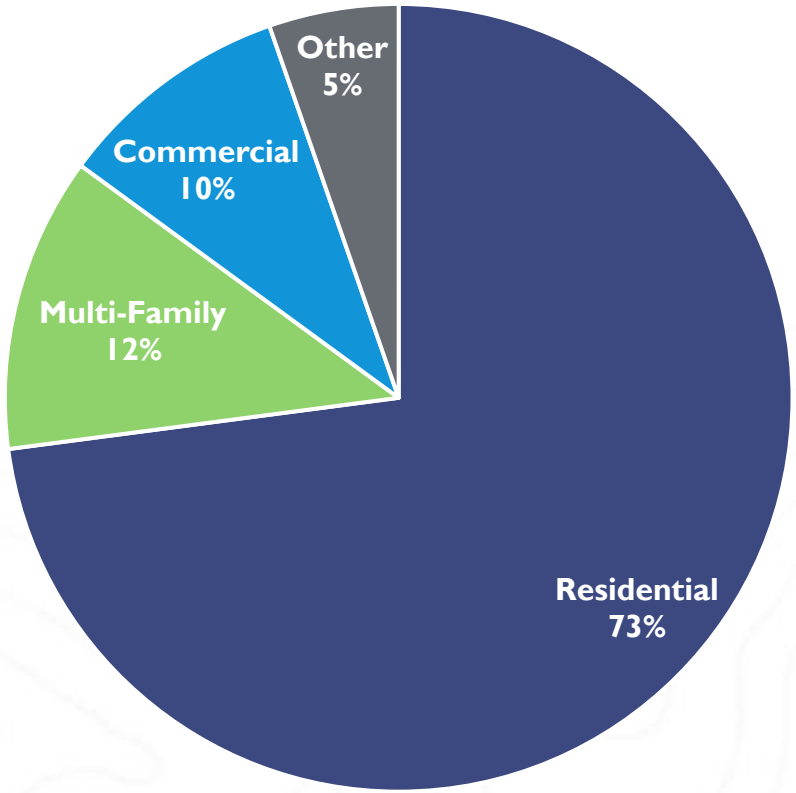
Delinquent Account Balance



Total = 85,388 Accounts

Understanding Our Customer Landscape: Delinquency Snapshot

Delinquent Amount: Percentage by Dollar Amount

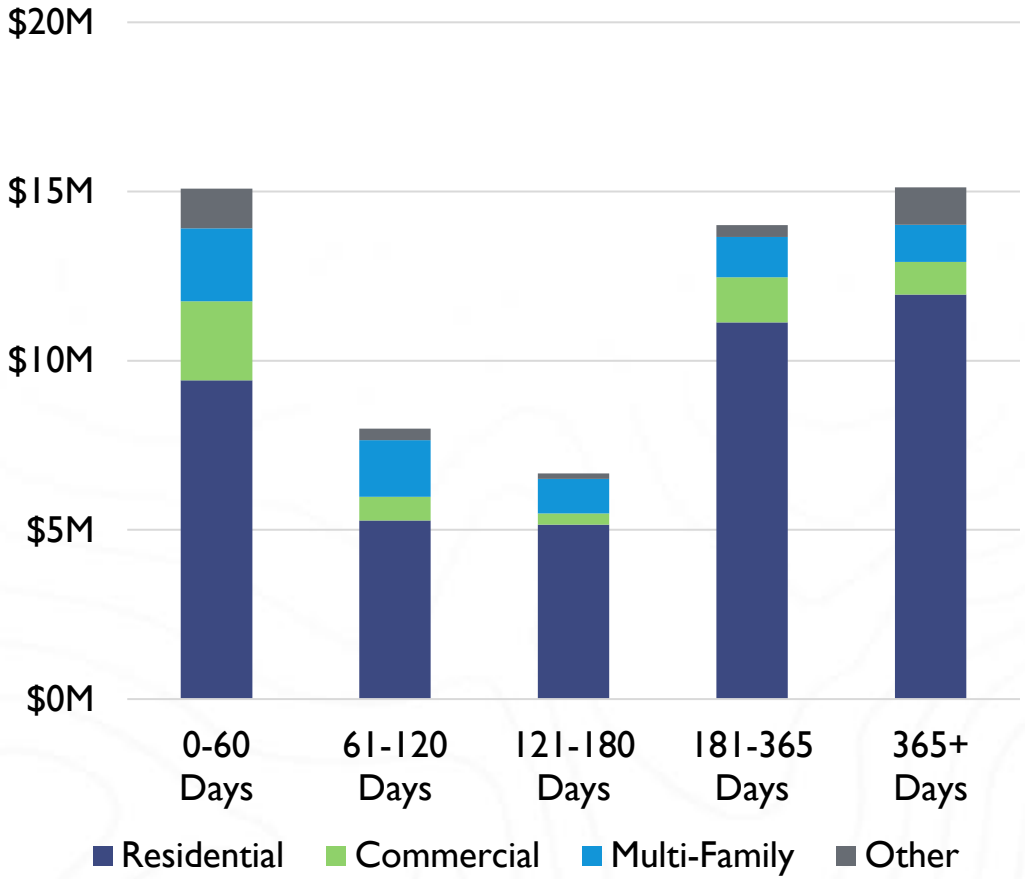


Residential accounts make up 94% of total delinquent accounts (80,697 out of 85,388)

Total Delinquent Amount : $58.9M

Residential delinquency is concentrated in shorter time frames (over half under 120 days)

Delinquency by Days Past Due: Early Delinquencies, Strong Recovery Potential



- Most residential delinquencies are recent – highlighting likely recovery through outreach
- Multi-family and commercial accounts show even distribution, suggesting tailored strategies
- Accounts >365 days represent only 9% of total delinquent accounts (7,852 out of 85,388)

August 2025 Revenue Recovery
Supporting Customers & Restoring Service

Turnoffs and Turnons

Montgomery County
212 Turnoffs / 148 Turnons

Prince George's County
429 Turnoffs / 309 Turnons

Potential Turnoffs
at $500 Past Due

Montgomery County
3,179 Accounts / $5.9 Million

Prince George's County
5,058 Accounts / $10 Million

Get Current 2.0 Update

83,379 Eligible Accounts*	$55,741,927 Delinquent*

Visits to Get Current Webpage

125,145

Applications Submitted

7,403

Full Payment	50% Payment Plans
3,847	892

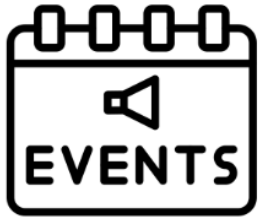
* As of July 01, 2025

Outreach
Get Current Extended/Enhanced

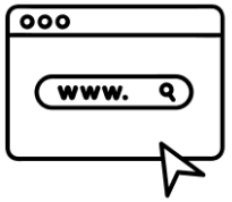
Streaming TV:
324,551 Impressions
100% Connected TVs
Undivided attention by viewer
Top networks = MAX, Hulu, Univision

Social Media & Web Display Ads:
821,471 Impressions
Facebook, Instagram, Nextdoor

491,711 Impressions Display ads



45+ public-facing events &
stakeholder meetings since July 1



Driving customers to website
54,000 visitors to Get Current
2nd most visited page between July-Aug

Direct Mail
Approx16,000 postcards
Second round of mailers

SMS Text Messages
400,000+
Encouraging applications
Reminders to eligible customers

Earned Media
Leveraging news media to inform customers
English & Spanish outlets

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Questions?

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Customer Service Performance Indicators
Customer Service Department
September 17, 2025

Call Center Metrics

The chart below highlights key call center metrics including average speed of answer, call answer rate and total number of calls received for the month.

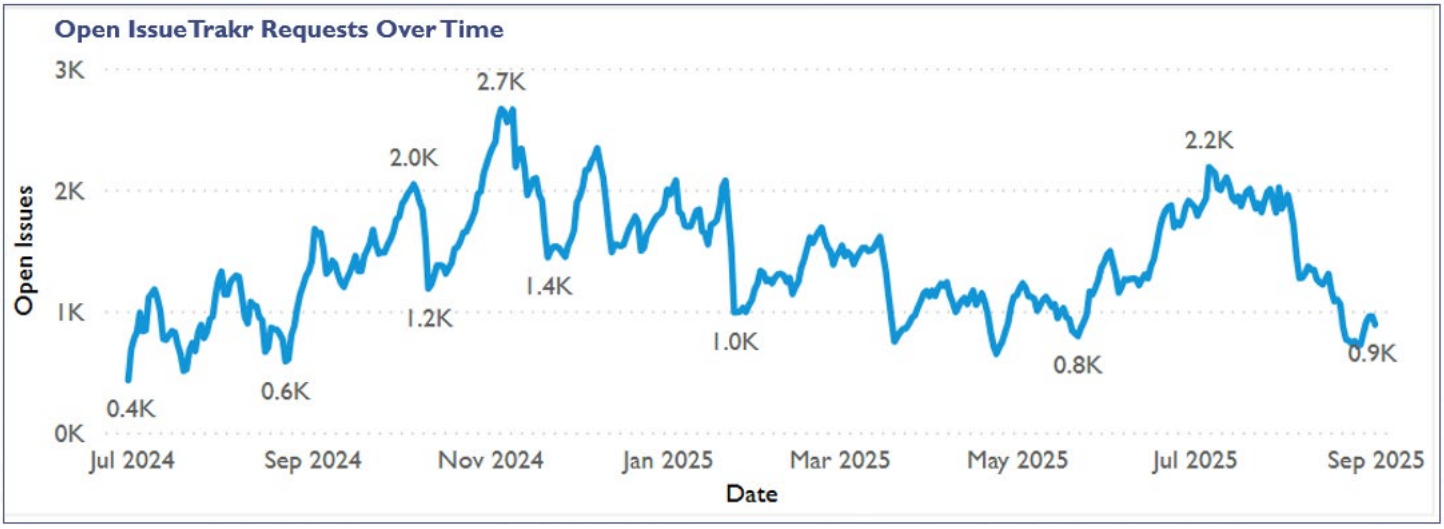
In August 2025, average wait time was 5 minutes, a 2-minute increase from the previous month (3 minutes). During August, average daily call volume decreased 5% month-over-month to 1,498 calls per day.

Metric	September 2021	June 2025	July 2025	August 2025
Call Wait Time/Average Speed of Answer	~29 minutes	~5 minutes	~3 minutes	~5 minutes
Average Handle Time	N/A	~9 minutes	~9 minutes	~10 minutes
Call Answer Rate	49%	93%	94%	92%
Calls Not Answered	51%	7%	6%	8%
Total Number of Calls for the Month	63,240 (3,011 daily avg)	26,942 (1,347 daily avg)	31,446 (1,429 daily avg)	31,461 (1,498 daily avg)

Customer Emails and Status of Backlog

In addition to phone calls, Customer Service receives thousands of emails each month which include start/stop service requests, payment plan requests, high bill inquiries, billing disputes, and escalated matters. As of September 1, 2025, Customer Service has responded to and processed 14,980 emails/IssueTrakr for FY2026.

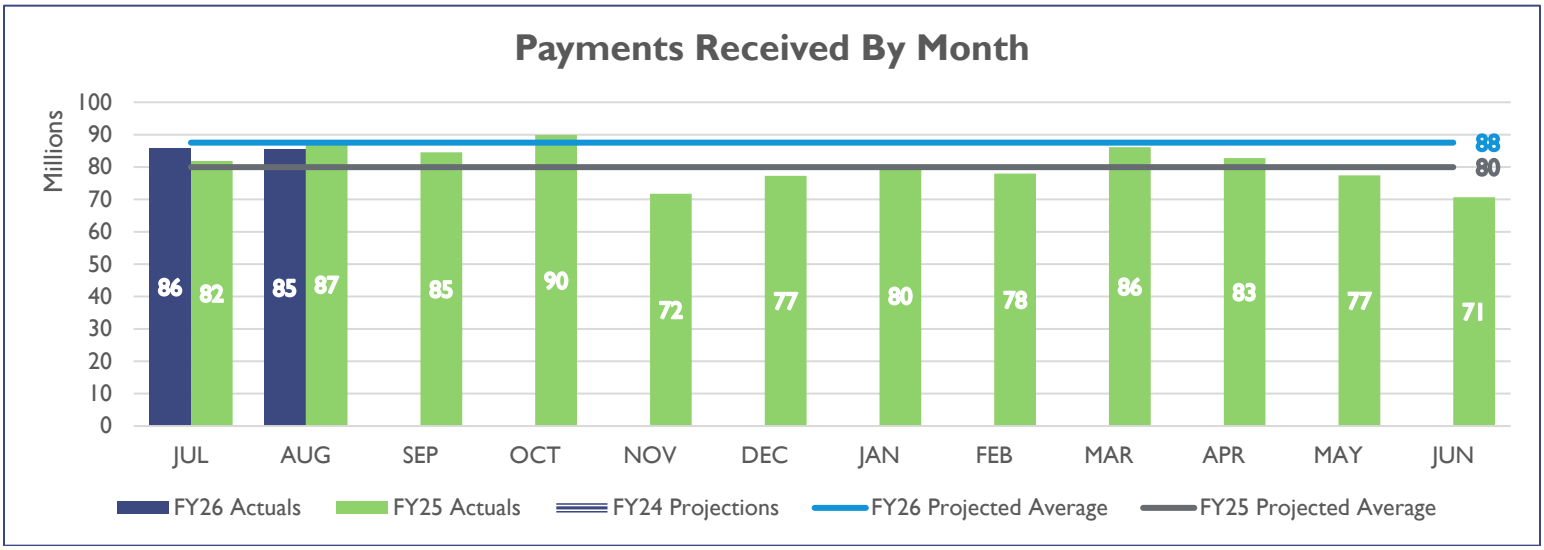
As of September 1st, 967 requests are open, down from our highest number of open requests, nearly 25,000 in December 2021. In December 2021, open requests had been open 30 days on average. On September 1st, open issues have been open **approximately 2 days** for Fiscal Year 2026.



Customer Service Performance Indicators
Customer Service Department
September 17, 2025

Customer Payments

In August 2025, WSSC Water received **$85 million** in customer payments, which was $1M less than the $86M received in July 2025; and $2M less than the $87 million received in August of 2024. FY2026 year to date, payments total approximately $171 million and are up approximately $2 million (1%), compared to $169 million during July – August FY2025.

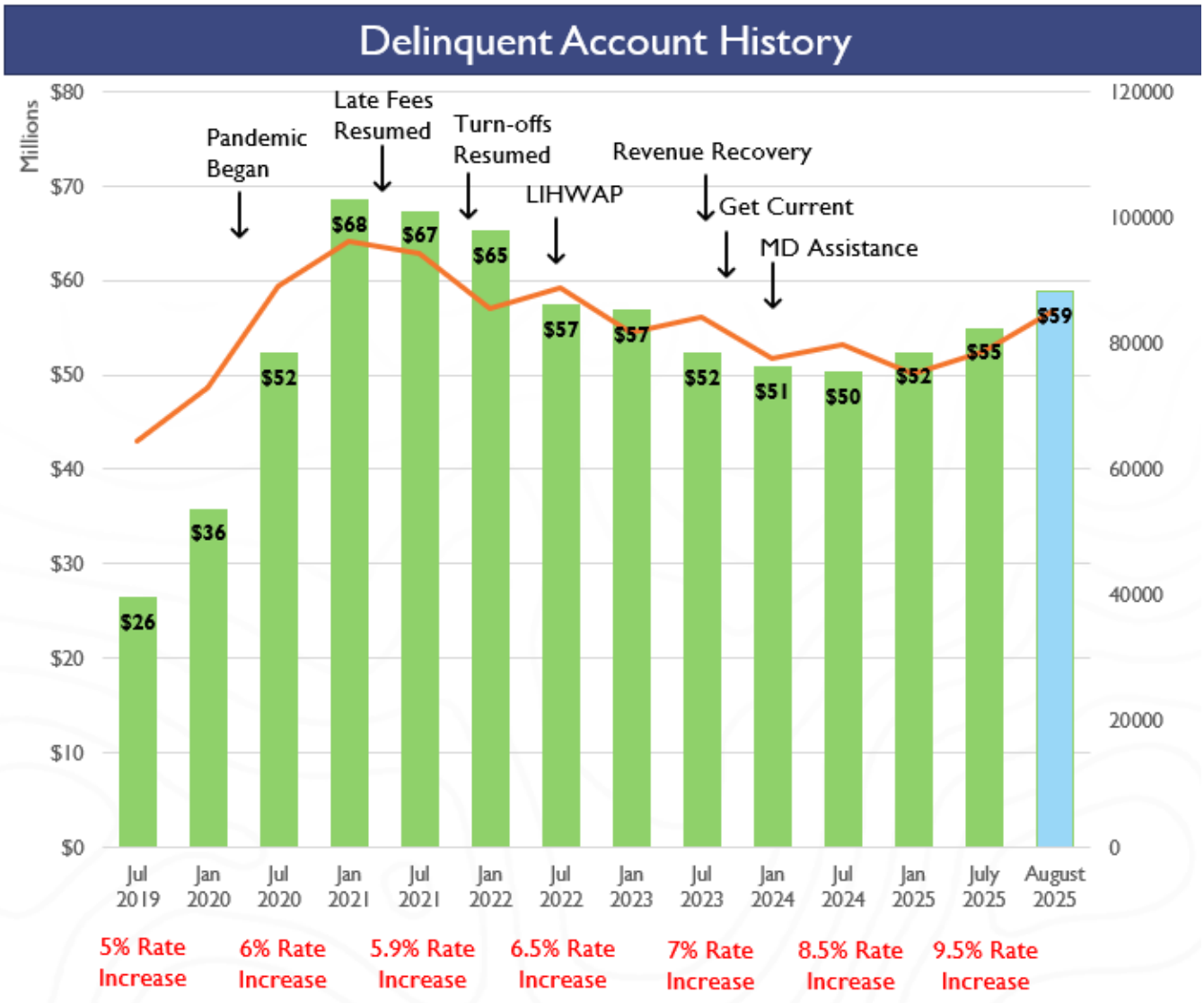


Revenue Recovery

As of September 1st, 2025, WSSC Water had **85,388** past due accounts totaling **$59 million**. The $59 million past due reflects a $4M increase from July 2025 ($55M). Residential premises account for 73% of the delinquencies with 80,697 past due accounts totaling $43M.

Account Type	Delinquent Accounts	Delinquent Amount	Delinquent Amount (%)
Residential	80,697	$42,929,653	73%
Multi-Family	540	$7,135,832	12%
Commercial	3,157	$5,670,325	10%
Other	994	$3,134,530	5%
Total	85,388	$58,870,340	100%

Customer Service Performance Indicators
Customer Service Department
September 17, 2025



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AMI Smart Meter Pilot

Utility Services Department

Crystal Wheaden, P.E., Principal Civil Engineer

September 17, 2025

PRESENTATION FOR INFORMATIONAL PURPOSES

Agenda

- Pilot Overview
- Residential Customer Targets & Recruitment Progress
- Pilot Customer Training
- Tracking Pilot Success
- Pilot Schedule
- Questions

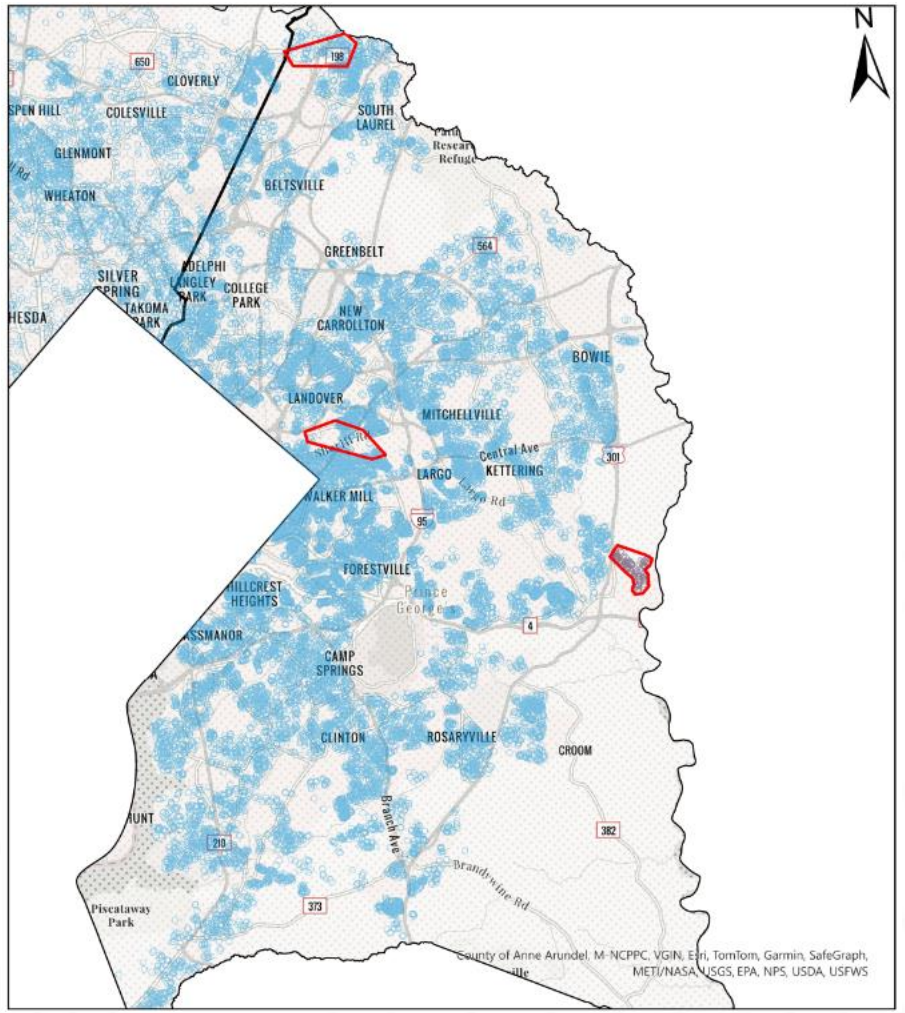
Pilot Overview

Component	Details
Deployment Size	2,000 AMI transmitter devices (~1500 residential + 500 commercial)
Target Locations	Residential: Challenging meter read routes Commercial: School systems Interested government partners
Duration	12 months
Implementation Team	WSSC Water internal staff (no external contractors)

Residential Customer Targets
Prince George's County

Legend

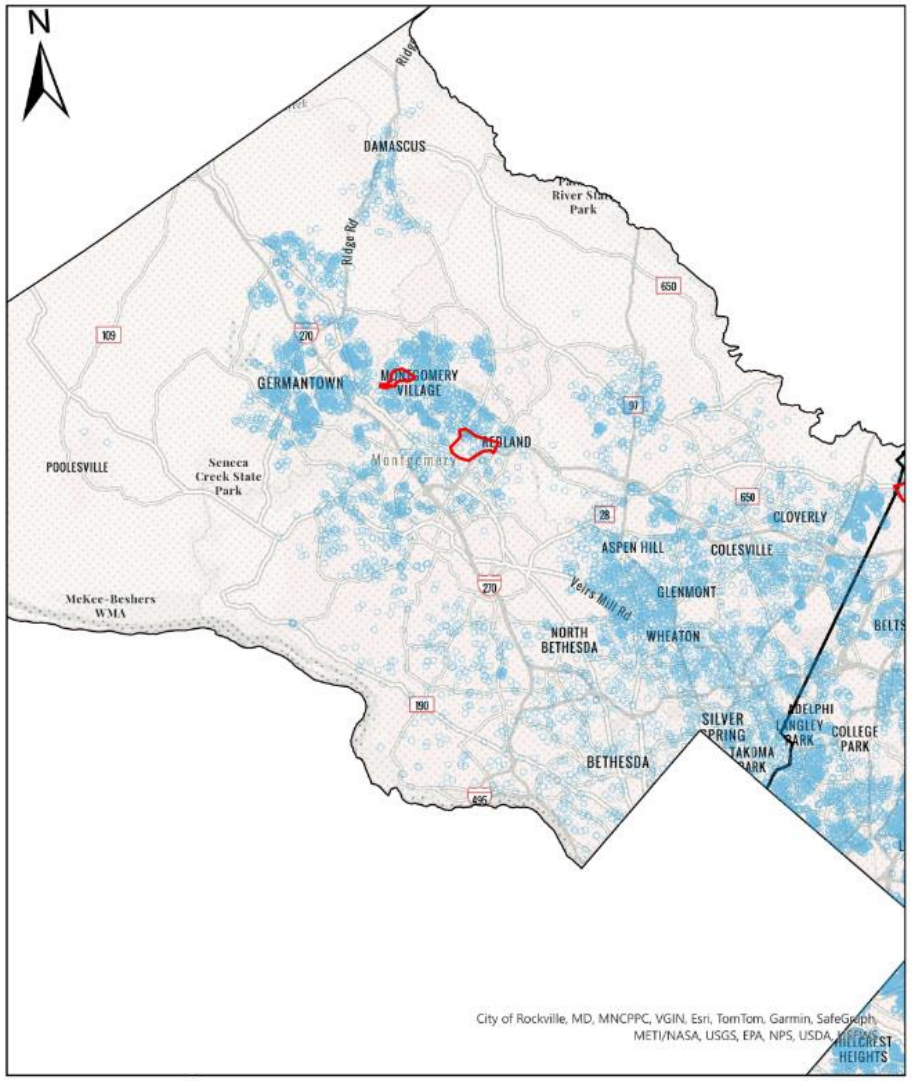
- County Boundary
- Challenging Meter Reading Routes
- Income Constrained Customers



Residential Customer Targets
Montgomery County

Legend

- County Boundary
- Challenging Meter Reading Routes
- Income Constrained Customers



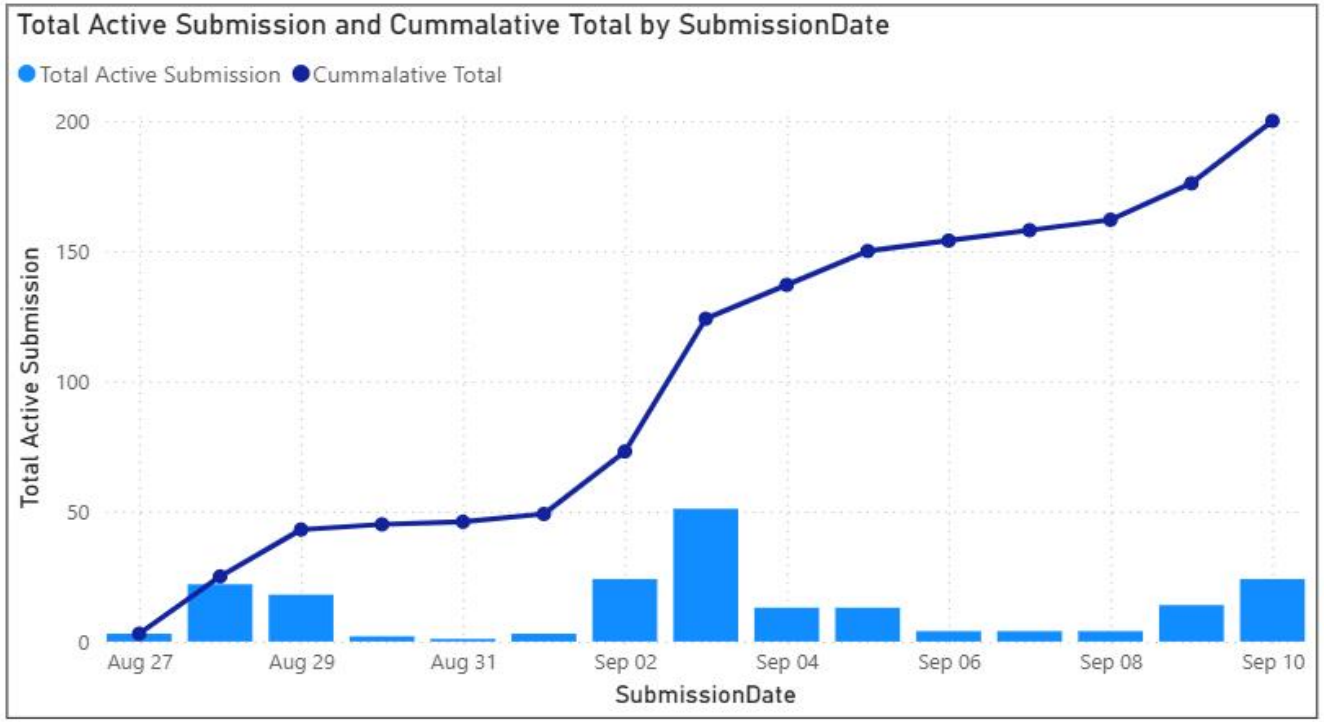
Recruitment Progress

WSSC Water AMI Smart Meter Pilot

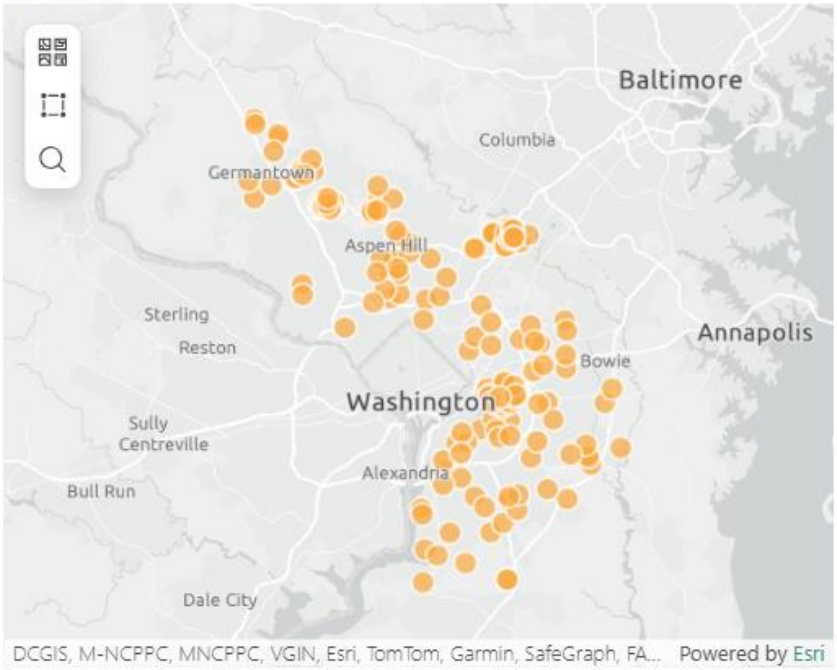
200	87	190
Active Submissions	Referred By CSD	Owner Acknowledged

Zip	Total
20707	23
20886	21
20785	18
20743	11
20880	11
Total	**200**

County	Total
	1
Montgomery County	87
Prince George's County	112
Total	**200**

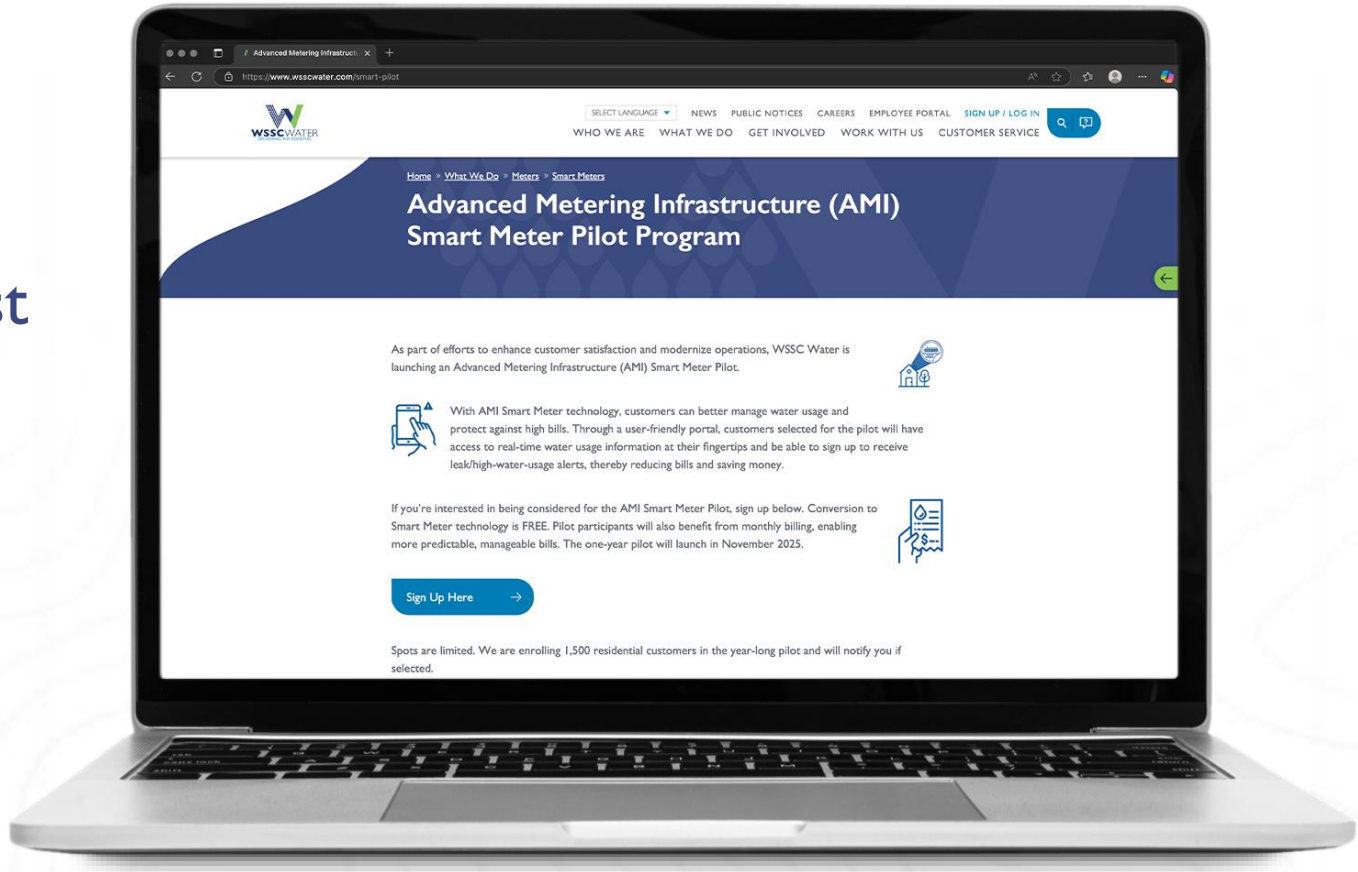


Location

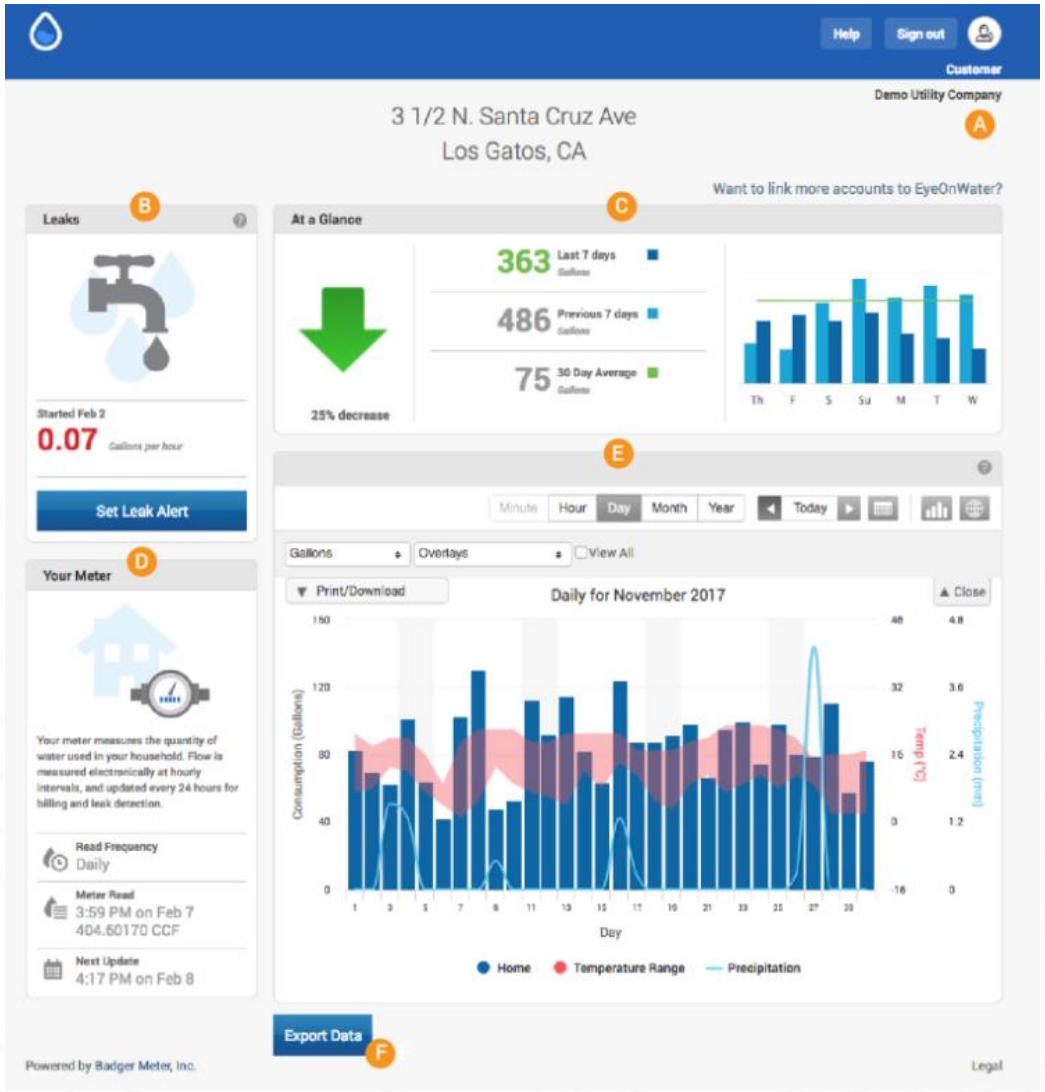


Residential Customer Recruitment

- August 25: Start of residential recruitment
- **Through mid/late September:** Customers complete online interest form on website →
- Late Oct.: WSSC Water notifies selected customers
- Late Oct./early Nov.: Selected customers schedule install appointment



Pilot Customer Training

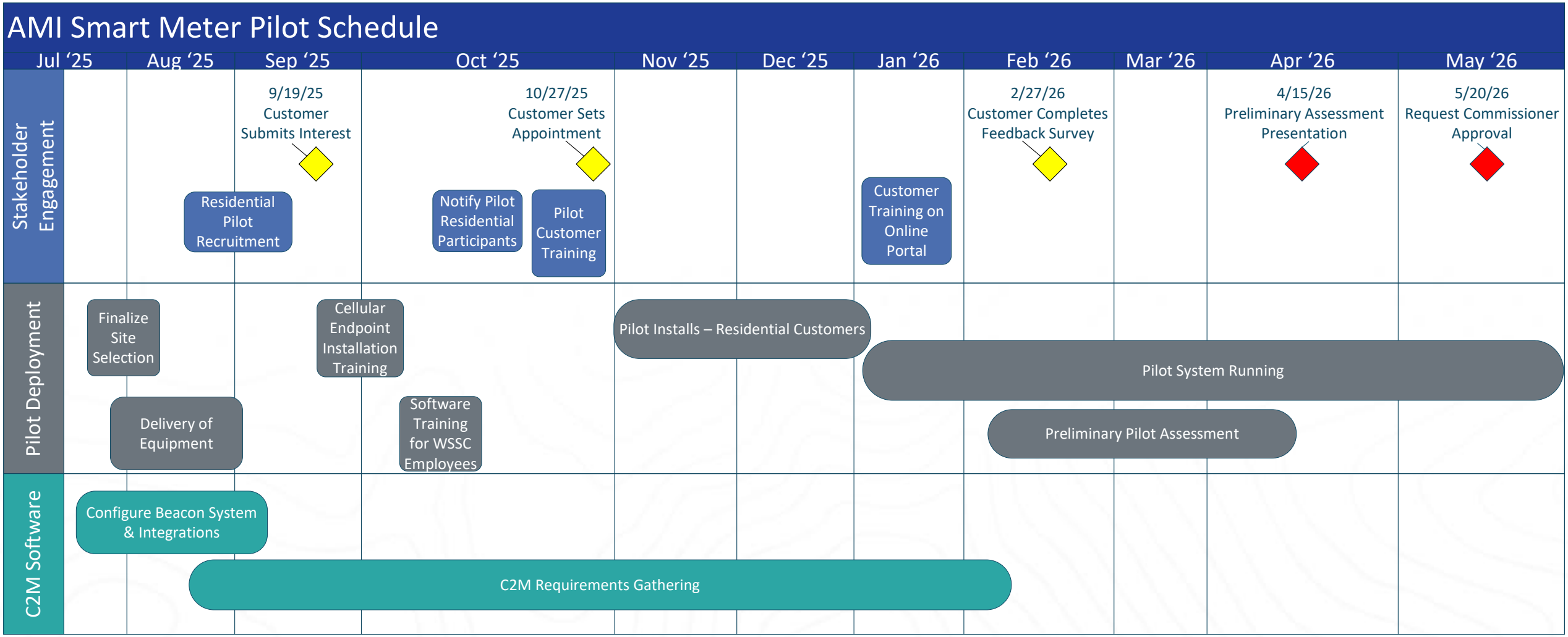


- Residential online, evening sessions
- Session one:
  - Expectations during AMI installation
  - Creating EyeOnWater portal account
  - Overview of portal
  - Overview of billing changes (quarterly to monthly)
- Session two:
  - Walkthrough of portal
  - Questions & Answers
- Planning portal training for commercial customers

Tracking Pilot Success from Customer Point-of-View

- Quarterly customer feedback surveys
- Customer portal participation and alert sign-ups
- Billing & affordability in target routes
  - Reduction in estimated bills
  - Reduction in delinquent accounts
  - Reduction of high-bill complaints
  - Ability to identify elevated consumption
- Customer-facing operations for participating customers
  - 50% Reduction in read-related field activities

AMI Smart Meter Pilot Schedule



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Questions?

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2024 WSSC Plumbing and Fuel Gas Code Draft

Regulatory Services Division

Christopher Imhof, Technical Standards Engineering Manager

September 17, 2025

PRESENTATION FOR INFORMATIONAL PURPOSES

REQUEST FOR VOTE NEXT MONTH

Agenda

- Purpose of the Code
- Code Development Process
- Code Development Schedule
- Notable Revisions
- Next Steps

Purpose of the Code

- The Commission is granted authority by the Public Utilities Articles to:
  - Adopt regulations for performing sewer cleaning, plumbing and gas fitting work.
  - Issue licenses and require permits for performing work.
  - Adopt regulations for Commission Pretreatment Program.
  - To issue civil fines for violations of regulations.

Purpose of the Code

- The WSSC Plumbing and Fuel Gas Code (the Code) creates regulations related to plumbing and fuel gas systems that adequately protect public health, safety and welfare.

- The Code also aims to create regulations that do not:
  - Unnecessarily increase construction costs;
  - Restrict the use of new materials, products or methods of construction; and
  - Give preferential treatment to particular types or classes of materials, products or methods of construction.

Code Development Process

- The development of the WSSC Plumbing and Fuel Gas Code is the responsibility of the Regulatory Services Division (RSD).

- Since 2007, the Code has adopted and amended the International Plumbing Code (IPC) and the International Fuel Gas Code (IFGC). Both codes are created by the International Code Council (ICC).

Code Development Process

- The IPC and IFGC are updated on a 3-year cycle.
- Importance of timely updates and adoptions of the Codes:
  - Public health and safety (includes lessons learned from natural disasters or from investigations from groups like the National Transportation Safety Board)
  - New technology and materials (may provide better or more affordable options for construction)
  - Updated administrative procedures (such as conversion to paperless process for permits)

Code Development Process

- The International Codes are created by consensus with an open process.

- WSSC Water is a governmental member of ICC and votes on proposed code updates.

Code Development Process

- ICC code committee members belong to some of the following organizations:
  - American Gas Association (AGA)
  - American Institute of Architects (AIA)
  - American Society of Plumbing Engineers (ASPE)
  - International Association of Fire Chiefs (IAFC)
  - National Association of State Fire Marshals (NASFM)
  - National Association of Home Builders (NAHB)
  - National Multifamily Housing Council (NMHC)
  - Plumbing Heating and Cooling Contractors (PHCC)

Code Development Process

- The WSSC Plumbing and Fuel Gas Code includes regulations for the following:
  - Materials and methods for the installation of plumbing and fuel gas systems
  - Plumbing and fuel gas permits
  - Plumbing and gasfitting licenses
  - Qualifications for Code Officials
  - Administration of permit fees
  - Plan review
  - Inspections
  - Stop work orders
  - Plumbing and Fuel Gas Board
  - Violations and penalties
  - Cross-Connection Control Program
  - Water meters
  - Industrial Charge Control
  - Fats, Oils and Grease (FOG) Program

Code Development Process

- The Code development process included the solicitation of the following internal and external stakeholders,
  - Internal stakeholders solicited
    - Regulatory Services Division
    - Development Services Division
    - Meter Services Division
    - General Counsel's Office
  - External stakeholders solicited
    - WSSC Plumbing and Fuel Gas Board
    - Departments of permitting for Montgomery and Prince George's counties
    - Local building and business associations
    - Plumbers, gasfitters, and HVAC mechanics associations
    - Engineering societies
    - Washington Gas

Code Development Schedule

- June 23, 2025 – Presented regulation to ELT for review and comment
- June 23 to August 2, 2025 – ELT 40-day review period
- August 21, 2025 – WSSC Plumbing and Fuel Gas Board meeting
- September 17, 2025 – Draft Code presented at Commission meeting
- October 15, 2025 (proposed) – Commission meeting with vote for approval
- October 22, 2025 (proposed) – public notice at least 30 days before its effective date in at least two newspapers of general circulation in each county of the sanitary district
- December 1, 2025 (proposed) – Proposed effective date

Notable Revisions

- Revised requirements that would allow backflow prevention devices to be installed using a Short Form Permit instead of a Long Form Permit. This would decrease cost of construction.

- Added language to require tenants and others to be notified when an inspection is scheduled by other, such as by the plumber or landlord.

- Added language to clarify that the Commission has authority to require abatement of a Civil Citation Violation.

Notable Revisions

- Added language that aiding or abetting a violation is a violation itself and subject to license action.

- Added language that outstanding judgements are subject to license action. For example, a license may be denied, suspended, or revoked for non-payment.

- Revised language to clarify the requirements for containment and isolation backflow preventers.

Notable Revisions

- Revised language to clarify the requirement for shutoff valves for water supplies.

- Revised language for waste hauler to submit manifest to Commission electronically.

- Revised language for Waste Haulers, Waste Hauler Discharge Permit, and Waste Hauler Zero Discharge Permit.

Summary of Changes

- Included for your review is a document with summary of changes. This includes:
  - Significant proposed code revisions, including changes to IPC and IFGC
  - Comments explaining reasons behind changes
  - Who change was proposed by
  - Potential affects of change on costs of construction
  - This summary includes consolidation of changes that have cost impacts and changes made after ELT review

Next Steps

- Please review the submitted package

- If you have any questions, please submit them to:

  Christopher Imhof
  Technical Standards Engineering Manager
  Regulatory Services Division
  christopher.imhof@wsscwater.com
  301-306-8514

- RSD will be submitting agenda item to vote on proposed Code at October Commission meeting

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Questions?

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The following package is a draft of the 2024 WSSC Plumbing and Fuel Gas Code for review by Commission.

Development of the Code is the responsibility of RSD. Since 2007, the Code has adopted and incorporated by reference the International Plumbing Code (IPC) and the International Fuel Gas Code (IFGC). The adoption of the IPC and IFGC is subject to additions, deletions, or other modifications found in the Code. The IPC and IFGC are updated every three years, the latest editions are from 2024. RSD aims to update the Code with each new edition of the international codes.

The proposed revisions to the Code have been reviewed by the Commission's Executive Leadership Team. Solicitations for Code development was sent to external stakeholders, including the departments of permitting for Montgomery and Prince George's Counties; local building and business associations; Washington Gas; plumbing engineering societies; and plumbing, gasfitting, and mechanical trade associations. The collective changes have been reviewed and endorsed by the WSSC Plumbing and Fuel Gas Board. The process was observed and endorsed by the General Counsel's Office for legal sufficiency.

Following the September presentation, we would like to re-present the changes to the Commissioner's at a future meeting for their approval. Proposed effective date of December 1, 2025.

The following documents have been included in this package:

1. The proposed regulation, "2024 WSSC Plumbing and Fuel Gas Code Draft - For Commissioners.pdf"

2. Legal sufficiency review, "Legal Review of Regulation (Draft 2024 WSSC Code).pdf"

3. Explanation of changes, summary of the comments and changes suggested by ELT members, "Summary of revisions 2024 WSSC Plumbing and Fuel Gas Code – for Commissioners.pdf"

Please let us know if you have any questions.

SUMMARY OF REVISIONS TO WSSC PLUMBING AND FUEL GAS CODE

The following document is a summary of significant revisions included in the draft of the 2024 WSSC Plumbing and Fuel Gas Code. The summary is composed of the following sections,

- Cover sheet and Table of Contents
- 2024 International Plumbing Code Updates
- 2024 International Fuel Gas Code Updates
- Proposed Code Revisions by Chapter (Chapters 1 through 9)
- Summary of Notable Changes with Cost Increases / Decreases
- Summary of Notable Changes after ELT Review

SIGNIFICANT PROPOSED CODE REVISIONS

COVER SHEET AND TABLE OF CONTENTS

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CS.001	COVER SHEET	**2024**[2021] WSSC Plumbing and Fuel Gas Code	Updated the year of Code. Year matches updates to International Plumbing Code and International Fuel Gas Code.	RSD Staff	None.
CS.002	COVER SHEET	Effective Date: **TBD**[April 1, 2023]	Updated year of Code	RSD Staff	None.
TOC.001	TABLE OF CONTENTS	Table of contents updated per revisions to Code.		RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

2024 International Plumbing Code (IPC) Updates

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
IPC.001	New 306.2.4	**306.2.4 TRACER WIRE. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AMERICAN WIRE GAUGE (2.5 MM2) AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.**	The WSSC code already has language regarding tracer wires for plastic sewer piping. IPC langauge will be deleted and existing WSSC Code language will remain.		None.
IPC.002	New 312.4	**312.4 DRAINAGE AND VENT VACUUM TEST. THE PORTION OF THE DRAINAGE AND VENT SYSTEM UNDER TEST SHALL BE EVACUATED OF AIR BY A VACUUM-TYPE PUMP TO ACHIEVE A UNIFORM GAUGE PRESSURE OF NEGATIVE 5 POUNDS PER SQUARE INCH OR A NEGATIVE 10 INCHES OF MERCURY COLUMN (-34 KPA). THIS PRESSURE SHALL BE HELD WITHOUT THE REMOVAL OF ADDITIONAL AIR FOR A PERIOD OF 15 MINUTES. ANY ADJUSTMENTS TO THE TEST PRESSURE REQUIRED BECAUSE OF CHANGES IN AMBIENT TEMPERATURES OR THE SEATING OF GASKETS SHALL BE MADE PRIOR TO THE BEGINNING OF THE TEST PERIOD.**	Vacuum testing is added to IPC for drainage waste and vent systems.		Decrease. Adding additional options for testing may decrease the cost of construction.
IPC.003	504.7	504.7 Required pan. Where a storage tank-type water heater or a hot water storage tank is installed in a location where water leakage from the tank will cause damage, the tank shall be installed in a pan constructed of one of the following: 1. Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness. 2. Plastic not less than 0.036 inch (0.9 mm) in thickness. 3. Other approved materials. **A PLASTIC PAN INSTALLED BENEATH A GAS-FIRED WATER HEATER SHALL BE CONSTRUCTED OF MATERIAL HAVING A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKED-DEVELOPED INDEX OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723.** **WATER HEATERS INSTALLED IN PANS SHALL COMPLY WITH SECTION 314.2.3.2.** [A plastic pan shall not be installed beneath a gas-fired water heater.]	The 2021 WSSC Code amends this section and prohibits use of plastic pans for gas-fired water heaters. With safety standards for plastic pans now included in IPC, the WSSC Code can be amended to allow plastic pans meeting standard.		Decrease. Allowing plastic pans will decrease costs, plastic pans cost less than metal pans.

SIGNIFICANT PROPOSED CODE REVISIONS

2024 International Plumbing Code (IPC) Updates

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
IPC.004	New 607.2.1	**607.2.1 COMMERCIAL ENERGY PROVISIONS. IN OCCUPANCIES THAT ARE REQUIRED TO COMPLY WITH THE COMMERCIAL PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING SHALL BE LIMITED IN ACCORDANCE WITH SECTIONS C404.5.1 THROUGH C404.5.2.1 OF THAT CODE.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). **Revised after ELT review, Plumbing Board suggested revision.** **The Plumbing Board suggsetd not adopting this portion of Code.** This language would require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. It would also require pipe sizes not tradional used in the installation of water piping.		None. The commericial energy provisions require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. Not adding this portion of IPC will avoid increase in cost.

SIGNIFICANT PROPOSED CODE REVISIONS

2024 International Fuel Gas Code (IFGC) Updates

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
No significant revisions to IFGC					

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Chapter 1 Scope and Administration

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.001	ALL	2021 WSSC: Section 101 Scope and General Requirements Section 102 Applicability Section 103 Commission Functions Section 104 Duties and Powers of the Commission Section 105 Approval Section 106 Permits Section 107 Temporary Equipment, Systems and Uses Section 108 Inspections and Testing Section 109 Fees Section 110 Constructions Documents Section 111 Notice of Approval Section 112 Connection to the Commission's Systems and Meters Section 113 Stop Work Order Section 114 Appeal of Code Official Decisions Section 115 Violations and Penalties Section 116 Theft of Commission Services Section 117 Plumbing and Fuel Gas Board Section 118 Licenses and Registration Section 119 Cross Connection/Backflow Prevention Certification Training Program 2024 WSSC Section 101 Scope and General Requirements Section 102 Applicability Section 103 Commission Functions Section 104 Duties and Powers of the Commission Section 105 [Approval]**PERMITS** Section 106 [Permits]**CONSTRUCTION DOCUMENTS** Section 107 [Temporary Equipment, Systems and Uses]**NOTICE OF APPROVAL** Section 108 [Inspections and Testing]**FEES** Section 109 [Fees]**CONNECTION TO THE COMMISSION'S SYSTEMS AND METERS** Section 110 [Constructions Documents]**TEMPORARY EQUIPMENT, SYSTEMS AND METERS** Section 111 [Notice of Approval]**INSPECTIONS AND TESTING** Section 112 [Connection to the Commission's Systems and Meters]**APPEAL OF CODE OFFICIAL DECISIONS** Section 113 [Stop Work Order]**PLUMBING AND FUEL GAS BOARD** Section 114 [Means of Code Official Decisions]**VIOLATIONS AND PENALTIES** Section 115 [Violations and Penalties]**STOP WORK ORDER** Section 116 Theft of Commission Services Section 117 [Plumbing and Fuel Gas Board]**LICENSES AND REGISTRATION** Section 118 [Licenses and Registration]**CROSS CONNECTION/BACKFLOW PREVENTION CERTIFICATION TRAINING PROGRAM** [Section 119 Cross Connection/Backflow Prevention Certification Training Program]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.002	101.2.1.1	101.2.1.1 International Plumbing Code. The [2021]**2024** edition of the International Plumbing Code (hereinafter "IPC"), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications thereto set forth in Chapter 3 of this Code.	Revised edition of IPC being adopted from 2021 to 2024.	RSD Staff	None.
CH1.003	101.2.1.3	101.2.1.3 International Fuel Gas Code (IFGC). The [2021]**2024** edition of the International Fuel Gas Code (hereinafter IFGC), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications thereto set forth in Chapter 4 of this Code.	Revised edition of IFGC being adopted from 2021 to 2024.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.004	103.3	103.3 Qualifications for inspection staff. [Code Officials directly associated with inspections, including interpretation and enforcement of the Code on a technical level, administration, and document review shall as a minimum, be qualified as a WSSC-Licensed Master Plumber and WSSC-Licensed Master Gasfitter.]**THE COMMISSION MAY EMPLOY AN INDIVIDUAL AS A PLUMBING AND GASFITTING INSPECTOR ONLY IF THE INDIVIDUAL HOLDS A CURRENT MASTER PLUMBER AND GASFITTER LICENSE ISSUED BY THE COMMISSION OR A MASTER PLUMBER/GASFITTER LICENSE FROM AN ELIGIBLE RECIPROCAL STATE.**	Revised language to align with language and requirements from the State.	RSD Staff	None.
CH1.005	New 104.2	**104.2 DETERMINATION OF COMPLIANCE. THE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO DETERMINE COMPLIANCE WITH THIS CODE AND TO RENDER INTERPRETATIONS OF THIS CODE TO CLARIFY THE APPLICATION OF ITS PROVISIONS. SUCH INTERPRETATIONS:** **1. SHALL BE IN COMPLIANCE WITH THE INTENT AND PURPOSE OF THIS CODE.** **2. SHALL NOT HAVE THE EFFECT OF WAIVING REQUIREMENTS SPECIALLY PROVIDED FOR IN THIS CODE.**	New language as part of ICC Codes. Reformatted to identify that when reviewing projects for compliance with the code, the code official can develop policies and procedures. It also specifically states that the developed policies and the project approvals are to be based on the intent of the code.	RSD Staff	None.
CH1.006	New 104.2.1	**104.2.1 LISTED COMPLIANCE. WHERE THIS CODE OR A REFERENCED STANDARD REQUIRES EQUIPMENT, MATERIALS, PRODUCTS OR SERVICES TO BE LISTED AND A LISTING STANDARD IS SPECIFIED, THE LISTING SHALL BE BASED ON THE SPECIFIED STANDARD. WHERE A LISTING STANDARD IS NOT SPECIFIED, THE LISTING SHALL BE BASED ON AN APPROVED LISTING CRITERIA. LISTINGS SHALL BE GERMANE TO THE PROVISION REQUIRING THE LISTING. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LISTING AND THE MANUFACTURER'S INSTRUCTIONS, AND WHERE REQUIRED TO VERIFY COMPLIANCE, THE LISTING STANDARD AND MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE CODE OFFICIAL.**	New language as part of ICC Codes. In cases where the code specifies a listing standard, it is common for a code official to accept things listed to that standard without further evaluating whether the standard is germane. When a product listing is appropriate, then the fact that the product is listed and installed in accordance with the listing specifications and the manufacturer's instructions becomes the approval of the product. This section is not included in all codes since not all codes require listed equipment.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.007	New 104.2.2	**104.2.2 TECHNICAL ASSISTANCE. TO DETERMINE COMPLIANCE WITH THIS CODE, THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE THE OWNER OR OWNER'S AUTHORIZED AGENT TO PROVIDE A TECHNICAL OPINION AND REPORT.**	New language as part of ICC Codes. Nearly all the codes provide for the code official to utilize technical assistance in some form or another. This section is included as a subsection for determining compliance and will be consistent throughout the I-Codes. It is derived from, and replaces, previous text that was originally developed for and limited to hazardous materials related provisions.	RSD Staff	None.
CH1.008	New 104.2.2.1	**104.2.2.1 COSTS. A TECHNICAL OPINION AND REPORT SHALL BE PROVIDED WITHOUT CHARGE TO THE JURISDICTION.**	New language as part of ICC Codes. The cost for technical assistance is borne by the applicant or owner. This was previously included in a preceding paragraph and has been separated into its own subsection.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.009	New 104.2.2.2	**104.2.2.2 PREPARER QUALIFICATIONS.THE TECHNICAL OPINION AND REPORT SHALL BE PREPARED BY A QUALIFIED ENGINEER, SPECIALIST, LABORATORY OR SPECIALTY ORGANIZATION ACCEPTABLE TO THE CODE OFFICIAL. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE DESIGN SUBMITTALS TO BE PREPARED BY, AND BEAR THE STAMP OF, A REGISTERED DESIGN PROFESSIONAL.**	New language as part of ICC Codes. States that the person or agency providing the technical report must be qualified. The Code Official has the ability to require that the report is stamped by a registered design professional, since not all reports may need to provide this. For example, a hazardous materials classification report often does not include engineering or design. The definition is added to codes that do not currently contain the definition, such as the IWUIC. This was previously included in a preceding paragraph and has been separated into its own subsection. The new text goes beyond simply recommending changes, recognizing that the report may be a source document, as opposed to a review of documentation prepared by others.	RSD Staff	None.
CH1.010	New 104.2.2.3	**104.2.2.3 CONTENT. THE TECHNICAL OPINION AND REPORT SHALL ANALYZE THE PROPERTIES OF THE DESIGN, OPERATION OR USE OF THE BUILDING OR PREMISES AND THE FACILITIES AND APPURTENANCES SITUATED THEREON TO IDENTIFY AND PROPOSE NECESSARY RECOMMENDATIONS.**	New language as part of ICC Codes. The technical report shall include an analysis and any recommended or necessary changes.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.011	New 104.2.2.4 (Formerly 105.3 & 105.3.1)	**104.2.2.4 TESTS. WHERE THERE IS INSUFFICIENT EVIDENCE OF COMPLIANCE WITH THE PROVISIONS OF THIS CODE, THE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO REQUIRE TESTS AS EVIDENCE OF COMPLIANCE. TEST METHODS SHALL BE AS SPECIFIED IN THIS CODE OR BY OTHER RECOGNIZED TEST STANDARDS. IN THE ABSENCE OF RECOGNIZED TEST STANDARDS, THE CODE OFFICIAL SHALL APPROVE THE TESTING PROCEDURES. SUCH TESTS SHALL BE PERFORMED, AT NO EXPENSE OF THE COMMISSION, BY A PARTY ACCEPTABLE TO THE CODE OFFICIAL.**	Intent remains the same, language relocated and rearranged. Tests can often provide valuable information. Where a test standard isn't specified by this code or a reference standard, the code official may wish to conduct further evaluation of the suitability of the test method used as a basis. Testing can be performed by an approved agency or by any other party/organization approved by the code official. Proposed provisions for tests are largely derived from existing code text on this topic.	RSD Staff	None.
CH1.012	New 104.2.3	**104.2.3 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND**	Intent remains the same, language	RSD Staff	None.
CH1.013	New 104.2.3.1	**104.2.3.1 APPROVAL AUTHORITY. AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL BE APPROVED WHERE THE CODE OFFICIAL FINDS THAT THE PROPOSED ALTERNATIVE IS SATISFACTORY AND COMPLIES WITH SECTIONS 104.2.3 THROUGH 104.2.3.7, AS APPLICABLE.**	New language as part of ICC Codes. If the alternative is acceptable, then it is to be approved by the code official. This is from existing text.	RSD Staff	None.
CH1.014	New 104.2.3.2 (Formerly 105.2)	**104.2.3.2 APPLICATION AND DISPOSITION. WHERE REQUIRED, A REQUEST TO USE AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL BE SUBMITTED IN WRITING BY MARYLAND PROFESSIONAL ENGINEER TO THE CODE OFFICIAL FOR APPROVAL. WHERE THE ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION IS NOT APPROVED, THE CODE OFFICIAL SHALL RESPOND IN WRITING, STATING THE REASONS THE ALTERNATIVE WAS NOT APPROVED.**	Intent remains the same, language relocated and rearranged. The submittal for an alternative must be accomplished in writing. If it is not approved, the code official must so state in writing and provide reasons why it was not acceptable. This is largely from existing text, however, the requirement for a written application for alternatives was not previously located in this section, where it is appropriate to reference.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.015	New 104.2.3.3 (formerly 105.2)	**104.2.3.3 COMPLIANCE WITH CODE INTENT. AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL COMPLY WITH THE INTENT OF THE PROVISIONS OF THIS CODE.**	Intent remains the same, language relocated and rearranged. The alternative must comply with the code's intent.	RSD Staff	None.
CH1.016	New 104.2.3.4 (Formerly 105.2)	**104.2.3.4 EQUIVALENCY CRITERIA. AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL, FOR THE PURPOSE INTENDED, BE NOT LESS THAN THE EQUIVALENT OF THAT PRESCRIBED IN THIS CODE WITH RESPECT TO ALL OF THE FOLLOWING, AS APPLICABLE:** **1. QUALITY.** **2. STRENGTH.** **3. EFFECTIVENESS.** **4. DURABILITY.** **5. SAFETY, OTHER THAN FIRE SAFETY.** **6. FIRE SAFETY.**	Intent remains the same, language relocated and rearranged. The alternative must provide equivalency to the code's provisions. The list of characteristics to be addressed is included from the current code. The reference to fire-resistance is removed from the list and fire-resistance is included under safety with additional criteria regarding fire characteristics identified in Section 104.2.3.4.1.	RSD Staff	None.
CH1.017	New 104.2.3.5 (Formerly 105.3)	**104.2.3.5 TESTS. TESTS CONDUCTED TO DEMONSTRATE EQUIVALENCY IN SUPPORT OF AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION APPLICATION SHALL BE OF A SCALE THAT IS SUFFICIENT TO PREDICT PERFORMANCE OF THE END USE CONFIGURATION. TESTS SHALL BE PERFORMED, AT NO EXPENSE TO COMMISSION, BY A PARTY ACCEPTABLE TO THE CODE OFFICIAL.** **104.2.3.5.1 FIRE MARHSAL APPROVAL. ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL BE APPROVED BY FIRE MARSHAL.**	Intent remains the same, language relocated and rearranged. Fire tests is new language. This section is added so the code official can ensure that any testing conducted is performed to a scale that adequately represents the end use of the alternate. This has primarily been added in response to concerns related to Code Change F60-21, which modified Section 2603 to defer alternatives related to fire performance of foam plastics to Section 104.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.018	New 104.2.3.6 (Formerly 105.2.1)	**104.2.3.6 RESEARCH REPORTS. SUPPORTING DOCUMENTATION, WHERE NECESSARY TO ASSIST IN THE APPROVAL OF MATERIALS OR ASSEMBLIES NOT SPECIFICALLY PROVIDED FOR IN THIS CODE, SHALL COMPLY WITH SECTIONS 104.2.3.6.1 AND 104.2.3.6.2.** **104.2.3.6.1 EVALUATION REPORTS. EVALUATION REPORTS SHALL BE ISSUED BY AN APPROVED AGENCY, AND USE OF THE EVALUATION REPORT SHALL REQUIRE APPROVAL BY THE CODE OFFICIAL FOR THE INSTALLATION. THE ALTERNATE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION AND PRODUCT EVALUATED SHALL BE WITHIN THE SCOPE OF THE CODE OFFICIAL'S RECOGNITION OF THE APPROVED AGENCY. CRITERIA USED FOR THE EVALUATION SHALL BE IDENTIFIED WITHIN THE REPORT AND, WHERE REQUIRED, PROVIDED TO THE CODE OFFICIAL.** **104.2.3.6.2 OTHER REPORTS. REPORTS NOT COMPLYING WITH SECTION 104.2.3.6.1 SHALL DESCRIBE CRITERIA, INCLUDING BUT NOT LIMITED TO ANY REFERENCED TESTING OR ANALYSIS, USED TO DETERMINE COMPLIANCE WITH CODE INTENT AND JUSTIFY CODE EQUIVALENCE. THE REPORT SHALL BE PREPARED BY A QUALIFIED ENGINEER, SPECIALIST, LABORATORY OR SPECIALTY ORGANIZATION ACCEPTABLE TO THE CODE OFFICIAL. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE DESIGN SUBMITTALS TO BE PREPARED BY, AND BEAR THE STAMP OF, A MARYLAND PROFESSIONAL ENGINEER.**	Intent remains the same, language relocated and rearranged. Evaluation reports and other reports is new language. This section is relocated and revised to address two different types of reports currently submitted for alternatives.	RSD Staff	None.
CH1.019	New 104.2.3.7	**104.2.3.7 PEER REVIEW. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE SUBMITTAL OF A PEER REVIEW REPORT IN CONJUNCTION WITH A REQUEST TO USE AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION, PREPARED BY A PEER REVIEWER THAT IS APPROVED BY THE CODE OFFICIAL.**	New language as part of ICC Codes. This section is added to address a method of review currently utilized by many jurisdictions. The peer review is an outside, third-party review that is submitted to the code official for use in cases where a jurisdiction may not have qualified resource in-house to perform a sufficient review of an alternative compliance proposal. Again, the peer reviewer must be qualified and approved by the code official.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets **[Deleted]**	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.020	New 104.2.4 (formerly 105.1)	**104.2.4 MODIFICATIONS (WAIVERS). WHEREN PRACTICAL DIFFICULTIES INVOLVED IN CARRYING OUT THE PROVISIONS OF THIS CODE ARISE, THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE SHALL HAVE THE AUTHORITY TO GRANT A MODIFICATION FOR INDIVIDUAL CASES, UPON REQUEST OF THE OWNER OR THE OWNER'S AUTHORIZED AGENT, PROVIDED THAT THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE SHALL FIRST FIND ONE OR MORE SPECIAL INDIVIDUAL REASONS THAT MAKE APPLICATION OF THE STRICT LETTER OF THIS CODE IMPRACTICAL, THAT THE MODIFICATION IS IN COMPLIANCE WITH THE INTENT AND PURPOSE OF THIS CODE, AND THAT THE MODIFICATION DOES NOT LESSEN HEALTH, ACCESSIBILITY, LIFE OR FIRE SAFETY REQUIREMENTS OR CAUSE DAMAGE TO THE COMMISSION'S SYSTEMS. RECORDS OF ACTION GRANTING MODIFICATIONS SHALL BE MAINTAINED BY THE COMMISSION'S REGULATORY SERVICES DIVISION.** **104.2.4.1 REQUEST. A MODIFICATION REQUEST SHALL BE SUBMITTED ON THE OFFICIAL CODE MODIFICATION REQUEST FORM. THE FORM SHALL BE SIGNED BY THE OWNER AND BY THE WSSC-LICENSED MASTER PLUMBER OR GASFITTER, OR A MARYLAND PROFESSIONAL ENGINEER.** **104.2.4.2 INDEMNIFICATION. THE OWNER OR THE OWNER'S LEGAL REPRESENTATIVE SHALL SIGN THE HOLD HARMLESS AGREEMENT SECTION OF THE MODIFICATION REQUEST FORM, INDEMNIFYING THE COMMISSION AND ITS EMPLOYEES FROM AND AGAINST ALL LOSSES AND LIABILITIES THAT MAY RESULT FROM THE GRANTING OF THE MODIFICATION REQUEST.** **104.2.4.3 FUTURE EDITIONS. THIS CODE INCORPORATES BY REFERENCE THE CURRENT EDITIONS OF MANY NATIONALLY RECOGNIZED CODES AND STANDARDS. REVISED AND UPDATED EDITIONS OF THE INCORPORATED CODES AND STANDARDS SHALL NOT AUTOMATICALLY BECOME PART OF THIS CODE. HOWEVER, THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE MAY CONSIDER AMENDMENTS TO PUBLISHED EDITIONS OF REFERENCED CODES AND STANDARDS NOT YET ADOPTED BY THE COMMISSION AS EVIDENCE SUPPORTING A REQUEST FOR A MODIFICATION.**	Intent remains the same, language relocated and rearranged. Added "accessibility" per revisions to 2024 ICC codes. This section is relocated under the section of compliance. Minor edits occurred to provide consistent language throughout the codes.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.021	104.4	104.4 Right of entry. Whenever it is necessary to perform an inspection to enforce the provisions of this Code, whenever a Code Official has reasonable cause to believe that there exists in any [building]**STRUCTURE** or upon any premises any violations of this Code, or to inspect a Commission inside water meter or a backflow preventer, the Code Official [shall have the authority]**IS AUTHORIZED** to enter the [building]**STRUCTURE** or premises at all reasonable times to inspect or to perform the duties imposed upon the Code Official by this Code. If such building or premises is occupied, the Code Official shall present credentials to the occupant and request entry. If such [building]**STRUCTURE** or premises is unoccupied, the Code Official shall first make a reasonable effort to locate the owner or other person having charge or control of the [building]**STRUCTURE** or premises and request entry. If entry is refused, or if the owner or the owner's agent cannot be located, the Code Official shall have recourse to any remedy provided by law to secure entry.	New language as part of ICC Codes. This section is relocated and revised to provide consistent wording. The issue of right of entry is the same with all enforcement issues.	RSD Staff	None.
CH1.022	104.4.1	**104.4.1 WARRANT.** Wheren the Code Official shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, the owner, **THE OWNER'S AUTHORIZED AGENT,** occupant, proprietor, or person having charge or control of any building or premises shall promptly permit entry by the Code Official for inspection and examination pursuant to this Code.	New language as part of ICC Codes. This section was not found in all codes, so it was added to the IBC to provide the ability to utilize a warrant. This function is allowed by the courts and currently utilized by jurisdictions.	RSD Staff	None.
CH1.023	104.6	104.6 Notices and orders. A Code Official shall issue all necessary notices or orders to ensure compliance with this Code. Where deemed inadequate, a system shall be provided, altered, or repaired as directed, and in a timeframe indicated by a Notice of Violation (NOV) served upon the property owner, occupant, proprietor, or operator. **NOTICES OF VIOLATION SHALL BE IN ACCORDANCE WITH SECTION 114.**	New language as part of ICC Codes. Relocated and revised for consistent wording.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.024	New 104.9	**104.9 PRODUCT AND MATERIAL ACCEPTANCE.** **104.9.1 STANDARDS. THE STANDARDS CITED IN THIS CODE ARE MINIMUM STANDARDS. EXCEPT AS OTHERWISE PROVIDED FOR IN THIS CODE, WHEN USED IN THE CONSTRUCTION, INSTALLATION, ALTERATION, OR REPAIR OF PLUMBING AND FUEL GAS SYSTEMS OR PARTS OF THESE SYSTEMS, PRODUCTS AND MATERIALS SHALL CONFORM TO OR EXCEED THE STANDARDS CITED IN THIS CODE. ALTHOUGH INDICATED AS APPROVED FOR PURPOSES OF THESE REGULATIONS, THE INCLUSION OR LISTING OF A PRODUCT OR MATERIAL DOES NOT INFER UNQUALIFIED ENDORSEMENT AS TO ITS SELECTION OR SERVICEABILITY IN ANY OR EVERY INSTALLATION.** **104.9.2 MATERIALS HANDLING. PRODUCTS AND MATERIALS INSTALLED IN PLUMBING AND FUEL GAS SYSTEMS SHALL BE HANDLED AND INSTALLED AS TO AVOID DAMAGE SO THAT THE QUALITY OF THE PRODUCT OR MATERIAL SHALL NOT BE IMPAIRED.** **104.9.3 DAMAGED MATERIALS. DEFECTIVE OR DAMAGED PRODUCTS, MATERIALS, EQUIPMENT, OR APPARATUS SHALL NOT BE INSTALLED OR MAINTAINED.** **104.9.4 MATERIALS INSTALLATION. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS AND LISTINGS UNDER WHICH THE MATERIALS ARE ACCEPTED OR APPROVED, INCLUDING THE APPENDICES OF THE STANDARDS, AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.** **104.9.5 MATERIAL AND EQUIPMENT REUSE. UNLESS MATERIALS, EQUIPMENT AND DEVICES ARE IN GOOD WORKING CONDITION AND APPROVED FOR USE BY THE CODE OFFICIAL, THEY SHALL NOT BE REUSED.**	Relocated from 105.4. 104.9.5 revised to match revisions to IPC 105.4.1. Material reuse - this section addresses the reuse of materials and equipment. The section is revised to provide consistent wording throughout the codes to say that the code official must approve any materials to be reused.	RSD Staff	None.
CH1.025	105	[SECTION 105 APPROVAL]	Section relocated as part of changes to ICC Codes.	RSD Staff	None.
CH1.026	105 (Formerly 106)	SECTION [106]**105** PERMITS	Section relocated as part of changes to ICC Codes.	RSD Staff	None.
CH1.027	New 105.2.16 (Formerly 106.2.16)	[106.2.1.6]**105.2.1.6** Repairs and replacement of grease abatement systems. [Repairs and replacement of grease abatement piping and equipment, including the removal and reinstallation of plumbing fixtures and equipment shall not be exempt.]**THE FOLLOWING PLUMBING WORK SHALL NOT BE EXEMPT FROM THE REQUIREMENT FOR A PERMIT: WORK ON GREASE ABATEMENT SYSTEMS, INCLUDING THE INSTALLATION AND REINSTALLATION OF FIXTURES, REPAIRS OR REPLACEMENT OF PIPING, OR REPLACEMENT OF GREASE ABATEMENT EQUIPMENT AND APPURTANCES.**	Revised langauge to clarify scope of requirements. **Revised after ELT review, RSD suggested revision.** Repairs to grease interceptors shall be exempt from requirement for permit.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.028	Table 105.1.2a	Table 105.1.2a Installation or relocation of testable backflow assemblies [or non-testable backflow devices][8,16] **16 - SEE SECTION 105.6 FOR REQUIREMENTS FOR LONG FORM PERMIT AND EXCEPTIONS FOR SHORT FORM PERMIT.**	Relocated language to new row of table. Added numbered note #16 for reference to code language.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Requiring Short Form Permits instead of Long Form Permits would decrease costs.
CH1.029	Table 105.1.2a	**INSTALLATION OR RELOCATION OF NON-TESTABLE DEVICE** Long Form (LFP) **ALLOWED** Short Form (SFP) **REQUIRED**[2]	New row in table, relocated from row above. Added language that would require a Short Form Permit for the installation of a non-testable device.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Requiring Short Form Permits instead of Long Form Permits would decrease costs.
CH1.030	Table 105.1.2a	15 - Equivalent [is a grease interceptor with the same manufacturer, model, flow rate as original; or a]**MEANS A** Commission approved [model]**GREASE INTERCEPTOR** with the same flow rate **OR GREATER**.	Revised language to broaden the definition of equvilant grease interceptor.	RSD Staff	Decrease. The revision gives more options for replacement of grease interceptors, potentially decreasing cost of construction.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.031	New 105.6 (Formerly 106.6)	[106.6]**105.6** Long Form Permit. A Long Form Permit shall be required for all new plumbing and fuel gas work requiring one or more inspections, including major alterations or additions and design retrofit work; for any plumbing work requiring the establishment of a new WSSC customer account; and for a new **INSTALLATION**, or the relocation of a testable or non-testable backflow preventer. **EXCEPTIONS:** **1. A SHORT FORM PERMIT MAY BE USED FOR THE DIRECT REPLACEMENT OF ALL TESTABLE BACKFLOW PREVENTION ASSEMBLIES IF THE FOLLOWING REQUIREMENTS ARE MET:** **A. THE EXISTING LOCATION AND APPLICATION MEET THE REQUIREMENTS OF THIS CODE.** **B. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE LISTED TO THE SAME STANDARD AS THE EXISTING ASSEMBLY.** **C. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.** **2. A SHORT FORM PERMIT MAY BE USED FOR THE FIRST TIME INSTALLATION OF A NON-TESTABLE DEVICE ON AN EXISTING ROUGH-IN, FOR AN EXISTING FIXTURE, OR REPLACEMENT OF A FIXTURE.**	Exception 1 relocated from former section 106.7. Exceptions 2, 3, and 4 added language to allow Short Form Permits for installation of non-testable devices in specific situations.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Allowance of Short Form Permit instead of Long Form Permit will decrease costs.
CH1.032	New 105.7 (Formerly 106.7)	[106.7]**105.7** Short Form Permit. A Short Form Permit shall be allowed for the replacement, repair, or alteration of existing plumbing and fuel gas systems, fixtures, or appliances requiring only one inspection. [A Short Form Permit may be used for the direct replacement of all testable backflow prevention assemblies if the following requirements are met: a. The existing location and application meet the requirements of this Code. b. The new testable backflow prevention assembly shall be listed to the same standard as existing. c. The new testable backflow prevention assembly shall be installed per manufacturer's installation instructions.]	Relocated parts a, b, and c to Section 105.6	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Allowance of Short Form Permit instead of Long Form Permit will decrease costs.
CH1.033	New 105.7.3 (Formerly 106.7.3)	[106.7.3]**105.7.3** Obstructed process. If the property owner or agent of the owner obstructs or refuses to allow [the]**A** licensee to schedule [the]**A REQUIRED** inspection [required under Section 106.7.2], the licensee shall promptly notify the Commission in writing. The notification shall occur within 15 days of installation and shall include the property owner or owner agent's name and mailing address, project address, phone number, email address, permit number, and documentation of attempts to schedule the inspection.	Removed language for reference to 106.7.2. Referenced language only applies to Short Form Permits. Obstruction should apply to all plumbing and fuel gas permits.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.034	New 105.9.4.4 (Formerly 106.9.4.4)	[106.9.4.4]**105.9.4.4** Containment. The **RESIDENTIAL UNIT IS REQUIRED TO HAVE CONTAINMENT BACKFLOW. IF THE RESIDENTIAL UNIT DOES NOT CURRENTLY HAVE CONTAINEMENT BACKFLOW,** THE homeowner shall install [or update] a dual check backflow preventer (ASSE 1024) for containment [of domestic water on premise]. **EXISTING BACKFLOW PREVENTERS SHALL BE INSTALLED, MAINTAINED, AND TESTED ACCORDING TO THE CODE.**	Revised to clarify that containment is a requirement of homeowner permit.	RSD Staff	None.
CH1.035	New 106 (Formerly 110)	**SECTION 106 CONSTRUCTION DOCUMENTS**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.
CH1.036	New 107 (Formerly 111)	**SECTION 107 NOTICE OF APPROVAL**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.
CH1.037	New 108 (Formerly 109)	**SECTION 108 FEES**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.
CH1.038	New 109 (Formerly 112)	**SECTION 109 CONNECTION TO THE COMMISSION'S SYSTEMS AND METERING**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.

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CH1.039	New 109.5.8.1 (Formerly 112.5.8.1)	**109.5.8.1 MIXED-USE BUILDINGS. WITH THE EXCEPTION OF BUILDINGS USING INDIVIDUAL METERS, WHERE MIXED-USE BUILDINGS ARE SERVED BY A SINGLE WATER SERVICE CONNECTION OR MULTIPLE SERVICE CONNECTIONS FORMING INTO A SINGLE SYSTEM ON PROPERTY, A MINIMUM OF TWO METERS SHALL BE INSTALLED, AS SET FORTH BELOW, TO ALLOW FOR THE SEPARATE REGISTERING OR COMPUTATION OF RESIDENTIAL UNIT AND COMMERCIAL UNIT WATER CONSUMPTION AT THE BUILDING. FOR CONDOMINIUM AND CO-OPERATIVE PROPERTIES LOCATED IN PRINCE GEORGE'S COUNTY, EACH RESIDENTIAL DWELLING UNIT MUST BE SEPARATELY METERED.**	Replaced the term "mixed-use" with "co-operative" in body of section.	RSD Staff	None.
CH1.040	New 110 (Formerly 107)	SECTION [107]**110** TEMPORARY **USES,** EQUIPMENT**[,] AND** SYSTEMS [AND USES]	New language as part of ICC Codes. The purpose of these revisions is coordination between codes for the section on temporary structures. This revision modified the section for temporary facilities where it was already in the code.	RSD Staff	None.
CH1.041	New 110.1 (Formerly 107.1)	[107.1]**110.1** General. The Code Official is authorized to issue a permit for temporary **USES,** equipment**[,] AND** systems [and uses]. Temporary permits shall be limited as to time of service, but shall not be permitted for more than 180 days. The Code Official is authorized to grant extensions for demonstrated cause.	New language as part of ICC Codes. The purpose of these revisions is coordination between codes for the section on temporary structures. This revision modified the section for temporary facilities where it was already in the code.	RSD Staff	None.
CH1.042	New 110.2 (Formerly 107.2)	[107.2]**110.2** Conformance. Temporary **USES,** equipment**[,] AND** systems [and uses] shall conform to the [structural strength, fire safety, means of egress, accessibility, light, ventilation and sanitary] requirements of this Code and any other applicable code or [AHJ]**ANY AUTHORITY HAVING JURISDICTION** as necessary to ensure the [public] health, safety and general welfare.	New language as part of ICC Codes. The purpose of these revisions is coordination between codes for the section on temporary structures. This revision modified the section for temporary facilities where it was already in the code.	RSD Staff	None.
CH1.043	New 111 (Formerly 108)	SECTION [108]**111** INSPECTIONS AND TESTING	Section relocated as part of changes to ICC Codes.	RSD Staff	None.

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CH1.044	New 111.2.1.1 (Formerly 108.2.1.1)	[108.2.1.1]**111.2.1.1** Scheduling. The licensee shall be responsible for [scheduling all inspections, or] ensuring that all inspections have been scheduled[. Short Form Permits may be scheduled for inspection by the licensee, the property owner, or the owner's agent; however, this accommodation shall not relieve the licensee from the responsibility for scheduling the inspection] and ensuring inspection approval. **111.2.1.1.1 SCHEDULING OF A LONG FORM PERMIT INSPECTION. INSPECTIONS FOR LONG FORM PERMITS SHALL BE SCHEDULED BY THE LICENSEE.** **111.2.1.1.2 SCHEDULING OF A SHORT FORM PERMIT INSPECTION. INSPECTIONS FOR SHORT FORM PERMITS MAY BE SCHEDULED BY THE LICENSEE, THE PROPERTY OWNER, OR THE OWNER'S AGENT.** **111.2.1.1.3 NOTIFICATION. THE PERSON WHO SCHEDULES AN INSPECTION IS RESPONSBILE FOR NOTIFYING THE OWNER OR THE OWNER'S AGENT, AND ANY TENANTS, OCCUPANTS, AND OTHER PERSONS WHO WILL BE PRESENT FOR THE INSPECTION, OF THE DATE AND SCOPE OF THE INSPECTION.**	Revised to address when inspection is scheduled by someone other than occupant. For example when inspection is scheduled by landlord for tenant, or by plumber for homeowner, or when only general contractor is present.	RSD Staff	None.
CH1.045	New 111.4.1.5 (Formerly 108.4.1.5)	[108.4.1.5]**111.4.1.5** Final. A final inspection shall include all required plumbing fixtures and appliances, appurtenances, and gas appliances; hot water to fixtures; fixtures clean, undamaged, secure, and operating properly; no leaks; no water hammer; mechanical equipment properly installed; backflow preventers in place; **CROSS-CONNECTION TEST REPORT FORMS PRINTED FROM THE COMMISSION'S TEST REPORT SYSTEM, INCLUDING TEST REPORT NUMBER;** and all tests completed. On factory-built housing or in buildings with factory-built plumbing cores, the installation shall have a state of Maryland inspection sticker. With the exception of modular buildings, a smoke test in presence of the Code Official shall be required, see IPC Section 312.4. For modular buildings, a peppermint test in the presence of the Code Official shall be required for the drainage and venting system. Consult with Code Official for peppermint test procedures.	Revised to clarify requirement for plumber to provide cross-connection test reports at final inspection.	RSD Staff	None.
CH1.046	New 108 (Formerly 109)	[SECTION 109 FEES]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.047	New 106 (Formerly 110)	[SECTION 110 CONSTRUCTION DOCUMENTS]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.

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CH1.048	New 107 (Formerly 111)	[SECTION 111 NOTICE OF APPROVAL]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.049	New 110 (Formerly 112)	[SECTION 112 CONNECTION TO THE COMMISSION'S SYSTEMS AND METERING]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.050	New 112 (Formerly 114)	SECTION [114]**112** APPEAL OF CODE OFFICIAL DECISIONS	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.051	New 113 (Formerly 117)	**SECTION 113 PLUMBING AND FUEL GAS BOARD**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.
CH1.052	New 114 (Formerly 115)	SECTION [115]**114** VIOLATIONS AND PENALTIES	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.053	New 114.3.1	**114.3.1 ABATEMENT OF CIVIL CITATION VIOLATION. THE IMPOSITION OF THE PENALTIES PROVIDED IN THIS SECTION SHALL NOT PRECLUDE THE COMMISSION FROM INSTITUTING APPROPRIATE ACTION TO PREVENT UNLAWFUL CONSTRUCTION OR TO RESTRAIN, CORRECT OR ABATE A VIOLATION, OR TO PREVENT ILLEGAL OCCUPANCY OF A BUILDING, STRUCTURE OR PREMISES, OR TO STOP AN ILLEGAL ACT, CONDUCT, BUSINESS OR USE OF THE PLUMBING, FUEL GAS, OR SITE UTILITY SYSTEMS ON OR ABOUT ANY PREMISES.**	Added language to clarify that we have the authority to get abatement.	GCO	None.

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CH1.054	New 114.6.1.12	**114.6.1.12 AIDING OR ABETTING. AIDING OR ABETTING ANY PERSON TO EVADE OR VIOLATE ANY PROVISION OF THIS CODE;**	Added language that aiding or abetting a violation is a violation itself and subject to license action.	GCO	None.
CH1.055	New 114.6.1.13	**114.6.1.13 OUTSTANDING JUDGMENTS. FAILURE TO RENDER MONETARY PAYMENT TO THE COMMISSION FOR A SETTLEMENT BETWEEN THE COMMISSION AND A LICENSEE OR A JUDGMENT OBTAINED BY THE COMMISSION AGAINST A LICENSEE;**	Added language that outstanding judgements are subject to license action. For example, a license may be denied, suspended, or revoked for non-payment.	GCO	None.
CH1.056	New 114.6.1.14	**114.6.1.14 THEFT OF SERVICE. FOR VIOLATIONS OF SECTION 116;**	Added language for title of section.	RSD Staff	None.
CH1.057	New 114.10.4	[115.10.4]**114.10.4** Authority to disconnect service utilities. A Code Official shall have the authority to authorize disconnection of water, sewer or gas service to any building, structure or system regulated by this Code to eliminate [an immediate]**A CONDITION WITH THE POTENTIAL TO CAUSE** danger to life, property, environment, health hazard or the Commission's systems. **A CODE OFFICIAL SHALL ALSO HAVE THE AUTHORITY TO DISCONNECT SERVICE UTILITES AS PART OF PROGESSIVE ENFORCEMENT ACTIONS IN RESPONSE TO CODE VIOLATIONS.** Where possible, the owner and occupant of the building, structure or service system shall be notified of the decision to disconnect utility service before taking such action. If not notified before disconnection, the owner or occupant of the building, structure or service systems shall be notified in writing, as soon as practical thereafter.	Revised language from "an immediate danger" to "a condition with the potential to cause danger." OSHA defines imminent danger as "... any conditions or practices in any place of employment which are such that a danger exists which could reasonably be expected to cause death or serious physical harm immediately or before the imminence of such danger can be eliminated through the enforcement procedures otherwise provided by this Act." The WSSC Code be interepreted similair to the OSHA definition. Regarding disconnecting services, the threshold of expected to death or serious physical harm is too high. For example, there a sewage leak could be danger to life, property, environment, health hazard or the Commission's systems. Is it immediate or immeniant? That could depend on the situation. However, the Commission should have the authority to turn off the water or disconnect the sewer to prevent further sewage discharge.	RSD Staff	None.

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CH1.058	New 116	**SECTION 116 THEFT OF COMMISSION SERVICES**	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code.	RSD Staff	None.
CH1.059	New 116.1	**116.1 GENERAL. THE PROVISIONS OF THIS SECTION SHALL GOVERN THEFT OF COMMISSION SERVICES. THEFT OF SERVICE INCLUDES, INTENT TO OBTAIN SERVICES WITHOUT PAYMENT, INTENT TO DIVERT SERVICES, AND ILLEGAL SEWER CONNECTION OR DISCHARGE. THEFT OF SERVICE IS SUBJECT TO ENFORCEMENT ACTION.**	Added langauge to create general scope for theft of service.	RSD Staff	None.
CH1.060	New 116.2 Formerly 116.1	[116.1]**116.2** Intent to obtain services without payment. **UNLESS OTHERWISE ALLOWED BY LAW OR BY PRIOR WRITTEN PERMISSION OF THE COMMISSION, A PERSON SHALL NOT TAMPER WITH, INSTALL, TAP, REMOVE, DISPLACE, OR MAKE ANY CONNECTION WITH ANY PIPE, VALVE, FIRE HYDRANT, METER, FITTING, CONNECTION OR OTHER FIXTURE, APPURTENANCE, OR EQUIPMENT OF THE COMMISSION WITH THE INTENT TO OBTAIN WATER OR SEWER SERVICE WITHOUT PAYMENT THEREFOR.** [116.1.1 Tampering. Unless otherwise allowed by law or by prior written permission of the Commission, a person shall not tamper with, install, tap, remove, displace, or make any connection with any pipe, valve, fire hydrant, meter, fitting, connection or other fixture, appurtenance, or equipment of the Commission with the intent to obtain water or sewer service without payment therefor.]	Rearranged language to clarify differences between intent to obratin services without payment, intent to divert services, and illegal sewer connection or discharge.	RSD Staff	None.
CH1.061	New 116.3 Formerly 116.2	[116.2]**116.3** Intent to divert services. **UNLESS OTHERWISE ALLOWED BY LAW OR BY PRIOR WRITTEN PERMISSION OF THE COMMISSION, A PERSON MAY NOT MAKE OR CAUSE TO BE MADE ANY PIPE, TUBE, OR OTHER INSTRUMENT OR CONTRIVANCE OR CONNECT THE SAME OR CAUSE IT TO BE CONNECTED WITH ANY WATER OR SEWER MAIN, SERVICE CONNECTION, OR OTHER PIPE FOR CONDUCTING OR SUPPLYING WATER IN SUCH MANNER AS TO BE CALCULATED TO SUPPLY WATER AROUND OR WITHOUT PASSING THROUGH A METER PROVIDED BY THE COMMISSION FOR THE MEASURING AND REGISTERING OF THE QUANTITY OF WATER OR SEWER USAGE OR BOTH.** [116.2.1 General. Unless otherwise allowed by law or by prior written permission of the Commission, a person may not make or cause to be made any pipe, tube, or other instrument or contrivance or connect the same or cause it to be connected with any water or sewer main, service connection, or other pipe for conducting or supplying water in such manner as to be calculated to supply water around or without passing through a meter provided by the Commission for the measuring and registering of the quantity of water or sewer usage or both.]	Rearranged language to clarify differences between intent to obratin services without payment, intent to divert services, and illegal sewer connection or discharge.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.062	New 116.3.1	**116.3.1 EVIDENCE. THE EXISTENCE OF ANY PIPE, TUBE, OR OTHER INSTRUMENT OR CONTRIVANCE WHICH EFFECTS THE DIVERSION OF WATER OR WITHOUT THE WATER BEING MEASURED OR REGISTERED BY OR ON A METER PROVIDED BY THE COMMISSION, OR THE USE OF WATER FURNISHED BY THE COMMISSION WITHOUT IT BEING MEASURED OR REGISTERED ON A METER PROVIDED THEREFOR BY THE COMMISSION, SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF INTENT TO DIVERT SERVICES AND OF THE VIOLATION OF THIS SECTION BY THE PERSON OR PERSONS WHO WOULD RECEIVE THE DIRECT BENEFITS FROM THE USE OF THE SEWER SERVICES WITHOUT IT BEING MEASURED OR REGISTERED ON A METER.**	Rearranged language to clarify differences between intent to obtain services without payment, intent to divert services, and illegal sewer connection or discharge. **Revised after ELT review, RSD suggested revision.** Removed incorrect additional language for "water of" from "who would receive the direct benefits from the use of the sewer services without it being measured or registered on a meter."	RSD Staff	None.
CH1.063	New 116.4.3	**116.4.3 OUTDOOR SINKS. SINKS LOCATED OUTSIDE SHALL BE PROTECTED FROM RECEIVING STORM WATER BY AN APPROVED COVER.**	Added language to clarify that sinks located outside shall have a cover to prevent storm water from entering sanitary system. Covers for sinks are currently enforced by plumbing inspections	RSD Staff	None.
CH1.064	New 116.4.4	**116.4.4 OUTDOOR DRINKING FOUNTAINS. OUTDOOR DRINKING FOUNTAINS ARE NOT REQUIRED TO BE PROTECTED FROM RECEIVING STORM WATER.**	Added language to clarify that drinking foutains located outside shall are not required to prevent storm water from entering sanitary system. Covers for drinking fountains are not currently enforced by plumbing inspections.	RSD Staff	None.
CH1.065	Former 117	[SECTION 117 PLUMBING AND FUEL GAS BOARD]	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH1.066	New 117 (Former 118)	SECTION [118]**117** LICENSES AND REGISTRATION	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.
CH1.067	New 117.6	**117.6 DIRECTION AND CONTROL.** **117.6.1 MINIMUM SUPERVISION ON PROJECT SITE. FOR WORK THAT REQUIRES A PERMIT, AT LEAST ONE WSSC-LICENSED JOURNEYMAN OR MASTER PLUMBER, GASFITTER, OR PLUMBER/GASFITTER IS REQUIRED TO BE ON EACH PROJECT SITE WHERE THE RELATED PLUMBING, GASFITTING, OR PLUMBING AND GASFITTING WORK IS BEING PERFORMED.** **117.6.1 MINIMUM SUPERVSION BY MASTER PLUMBER. WSSC-LICENSED JOURNEYMAN ARE REQUIRED TO WORK UNDER THE SUPERVISION OF A MASTER LICENSEE. THE MASTER LICENSEE PROVIDING SUPERVISION SHALL BE ON PROJECT SITE OR AVAILABLE IMMEDIATELY BY PHONE OR ELECTRONIC COMMUNICATION.**	Added language to clarify what is required for direction and control of licensees.	RSD Staff	None.
CH1.068	New 118 (Former 119)	SECTION [119]**118** CROSS CONNECTION/BACKFLOW PREVENTION CERTIFICATION TRAINING PROGRAM	Section numbers revised to match revisions to and order of International Code Council (ICC) Codes which are adopted by WSSC Code. Section relocated without revision.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 2 Definitions

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH2.001	203	**"DIRECTION AND CONTROL" MEANS THE MINIMUM REQUIRED SUPERVISION OF LICENSEES BY A JOURNEYMAN OR MASTER LICENSEE UNDER SECTION 117.6.**	Added definition per revisions to Chapter 1.	RSD Staff	None.
CH2.002	203	"Meter" means a device used to measure water or wastewater for determining billing or other accountable purpose. **"INDIVIDUAL METER" MEANS A METER THAT IS USED TO MEASURE ALL DOMESTIC WATER USAGE FOR EACH INDIVIDUAL TENANT OR DWELLING UNIT ON A MULTIPLE OCCUPANCY BUILDING WITHOUT A MASTER METER.**	Added definition per revisions to Chapter 5.	RSD Staff	None.
CH2.003	203	**"ONSITE GREASE SYSTEM" MEANS A GREASE INTERCEPTOR THAT IS THE RESPONSIBILITY OF A PERSON OTHER THAN AN INDIVIDUAL FSE. EXAMPLES INCLUDE GREASE INTERCEPTORS THAT ARE SHARED BY MULTIPLE TENANTS, SUCH AS GHOST OR COMMISSARY KITCHENS WITH ROTATING FSES, GREASE INTERCEPTORS THAT SERVE MULTIPLE FOOD TRUCKS, AND GREASE INTERCEPTORS SHARED BY MULTIPLE TENANTS AS PART OF A SHOPPING CENTER OR MALL.**	Added definition per revisions to Chapter 8.	RSD Staff	None.
CH2.004	203	**"PROPERTY CONTAINMENT" MEANS CONTAINMENT BACKFLOW PREVENTION THAT IS MEANT TO CONTAIN AN ENTIRE PROPERTY OR TRACT OF LAND AS OPPOSED TO A SINGLE BUILDING, TYPICAL OF FEDERAL PROPERTIES.**	Added definition per revisions to Chapter 5.	RSD Staff	None.
CH2.005	203	**[**"Reprimand" means a formal written notification to a licensee, that the licensee has committed one or more serious code violations, but less serious than that which would warrant a recommendation for suspension or revocation of their license.**]**	Reprimand has been removed from Code.	RSD Staff	None.
CH2.006	203	**"RESTORATION" MEANS ALTERNATIVE METHODS OF PIPE REPAIR AND REPLACEMENT, INCLUDING CURED-IN-PLACE-PIPING, PIPE BURSTING, AND PIPE RELINING SYSTEMS.**	Added definition to clarify language in Chapter 3.	RSD Staff	None.

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Chapter 3 Adoption of International Plumbing Code

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH3.001	New 302.3.4	**302.3.4 IPC SECTION 306.2.4 TRACER WIRE, IS HEREBY DELETED IN ITS ENTIRETY. SEE SECTION 302.7.2 FOR BUILDING SEWER TRACER WIRE REQUIREMENTS.**	IPC added language for tracer wire requirements. The WSSC Code already has existing language for tracer wire. IPC language was deleted.	RSD staff	None.
CH3.002	New 302.3.6 (Formerly 302.3.5)	[302.3.5]**302.3.6** IPC Section [312.5]**312.6**, Water supply system test, is hereby AMENDED by ADDING provisions to recognize safe air testing practices for rigid plastic piping systems in winter months, all to read as follows: (IPC as amended) [312.5]**312.6** Water supply system test. Upon completion of a section of or the entire water supply system, the system, or portion completed shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi (344 kPa). This pressure shall be held for at least 15 minutes. The water utilized for tests shall be obtained from a potable source of supply. The required tests shall be performed in accordance with this section and Section [108]**111**. [Subject to Section 105.4.4, testing for plastic piping systems shall follow a two-step process in winter months:] **312.6.1 SUSPENSION OF TESTING IN WINTER. BETWEEN NOVEMBER 1 AND MARCH 31, TESTING FOR PLASTIC PIPING SYSTEMS IS SUSPENDED.** [a. The system shall be air tested with 5 psi (34 kPa)] before wall close-in [by the plumbing contractor using a safe and reliable method, see manufacture's recommendations and requirements. Air tests are prohibited if not approved by the manufacturers of all components and materials in the system being tested, including pipe, fitting, and solvent manufacturers. Plumber shall provide material specifications sheets and installation manuals to plumbing inspector. Do not leave air pressure charged on an unmanned project and no other work may be performed on premises during an air test.] b.] Then, after permanent heat is available and before final inspection, the plumbing contractor shall fill the water supply system with water equal to system working pressure. The water test shall be held for 24 hours without loss.	Removed exception for air testing in winter months and added suspension of testing for plastic piping for winter months.	RSD staff	Decrease. Removal of testing of plastic piping during winter months will reduce cost of construction.
CH3.003	Formerly 302.3.6	[302.3.6 IPC Section 312.6, Gravity sewer test, is hereby AMENDED by ADDING provisions to allow air as a test medium, all to read as follows: (IPC as amended) 312.6 Gravity sewer test. Gravity sewer tests shall consist of plugging the end of the sewer at the point of connection with the public sewer, filling the building sewer with water or air, testing with 5 psi (34 kPa) of air or not less than a 10 foot (3,048 mm) head of water and maintaining such pressure for 15 minutes.]	Removed air testing from gravity sewer test. IPC added langauge to allow vacuum testing. Vacuum testing a safe alternative to air testing.	RSD staff	None.

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CH3.004	New 302.3.9	**302.3.9 IPC SECTION 314.1, FUEL-BURNING APPLIANCES, IS HEREBY AMENDED BY ADDING SECTION 314.1.2 TO ESTABLISH THAT THE LICENSEE IS RESPONSIBLE FOR DETERMING IF CONDENSATE PIPING IS REQUIRED FOR CATEGORY III APPLIANCES, ALL TO READ AS FOLLOWS:** **(IPC AS AMENDED)** **314.1.2 CATEGORY III APPLIANCES. CONDENSATE FORMATION DOES NOT OCCUR IN ALL INSTALLATIONS OF CATEGORY III APPLIANCES. WHERE THE INSTALLATION OF CONDENSATE PIPING IS OPTIONAL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE LICENSEE IS RESPONSIBLE FOR DETERMING IN CONDENSATE PIPING IS REQUIRED.**	Added language to clarify that licensee is responsible for determining if condensate piping is required for category III appliances. Category III appliances may or may not create condensate depending on several factors. If the condensate piping is installed and there is no condensation, the condensate trap will become dry and need to be filled periodically. If condensate is not installed and there is condensation, the condensate could cause damage. **Revised after ELT review, RSD suggested revision.** Removed entire section for exception to require condensate piping for Category III appliances. After some preliminary review, RSD has determined that there is some inconsistency regarding how category is determined for individual appliances. Due to this, it is difficult to determine if any exceptions to not require condensate drainage is required. RSD will follow up with reviewing code, code commentary, reviewing products as well as consulting with stakeholders to determine if there are situations where condensate piping can be eliminated.	RSD staff	None.

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CH3.005	New 302.5.4	302.5.4 IPC Section 504.7, Required pan, is hereby AMENDED to CLARIFY where water heater safe pans shall and shall not be required, to avoid conflict with subsequent IPC prescriptive language that is not enforceable in a practical manner, all to read as follows: (IPC as amended) 504.7 Required pan. **WHERE A STORAGE TANK-TYPE WATER HEATER OR A HOT WATER STORAGE TANK IS INSTALLED IN A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE, THE TANK SHALL BE INSTALLED IN A PAN CONSTRUCTED OF ONE OF THE FOLLOWING:** **1. GALVANIZED STEEL OR ALUMINUM OF NOT LESS THAN 0.0236 INCH (0.6010 MM) IN THICKNESS.** **2. PLASTIC NOT LESS THAN 0.036 INCH (0.9 MM) IN THICKNESS.** **3. OTHER APPROVED MATERIALS.** **A PLASTIC PAN INSTALLED BENEATH A GAS-FIRED WATER HEATER SHALL BE CONSTRUCTED OF MATERIAL HAVING A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKED-DEVELOPED INDEX OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723.** **WATER HEATERS INSTALLED IN PANS SHALL COMPLY WITH SECTION 314.2.3.2.** **[**Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a minimum thickness of 24 gauge, or other pans approved for such use. This requirement shall apply only to**]** **PANS ARE ONLY REQUIRED** for water heaters located above habitable space or the lowest habitable level. Pans shall not be required in basements or for slab-on-grade constructions, whether finished or unfinished.	IPC added language to allow plastic pans for gas water heaters if the pans meet certain requirements for flame spread and smoked-developed index. Revised langauge to allow plastic drain pans per IPC.	RSD staff	Decrease. Allowing plastic pans will decrease costs, plastic pans cost less than metal pans.

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CH3.006	New 302.6.9	**302.6.9 IPC SECTION 607.2.1, COMMERCIAL ENERGY PROVISIONS, IS HEREBY DELETED IN ITS ENTIRETY.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). **Revised after ELT review, Plumbing Board suggested revision.** **The Plumbing Board suggsetd not adopting this portion of Code.** This language would require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. It would also require pipe sizes not tradional used in the installation of water piping.	Plumbing Board	None. The commericial energy provisions require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. Not adding this portion of IPC will avoid increase in cost.

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CH3.007	New 302.7.3	302.7.3 IPC 708.1, Cleanouts required, is hereby AMENDED by ADDING to the Exception under Section 708.1.1, to codify cleanout equivalents, all to read as follows: (IPC as amended) **708.1.1 HORIZONTAL DRAINS AND BUILDING DRAINS. HORIZONTAL DRAINAGE PIPES IN BUILDINGS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING DRAINS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM) EXCEPT WHERE MANHOLES ARE USED INSTEAD OF CLEANOUTS, THE MANHOLES SHALL BE LOCATED AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, THE END OF THE HORIZONTAL DRAIN OR THE END OF THE BUILDING DRAIN.** Exceptions: 1. Horizontal fixture drain piping serving a non-removable trap shall not be required to have a cleanout for the section of piping between the trap and the vent connection for such trap provided the trap is at least [2”]**1-1/2”** diameter, not serving a kitchen sink, and provided such horizontal drain piping does not exceed the distances specified in Table 909.1. 2. Cleanouts shall not be required for fixture drains or fixture branches serving up to 7 fixtures. This exception is limited to 40 feet (12,192 mm) of developed length of piping as measured from a readily accessible and removable P-trap or a water closet flange. This exception does not cover fixture branches serving one or more urinals.	Revised language for cleanouts for horizontal drains and building drains to match revisions to IPC. Incorporated previous WSSC Code amendments. Revised exception for non-removable trap from 2" to 1-1/2" to allow standard bathtub and shower drains to be included in exception.	RSD staff	None.

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CH3.008	New 302.7.4	302.7.4 IPC 708.1, Cleanouts required, is hereby AMENDED by MODIFYING the requirement for manholes to include pipelines of 6 inches (101 mm) diameter, all to read as follows: (IPC as amended) IPC 708.1.2 Building sewers. [Building sewers shall be provided with cleanouts located not more than 100 feet (30,480 mm) apart measured from the upstream entrance of the cleanout. For building sewers 6 inches (153 mm) and larger, manholes shall be provided and not located more than 100 feet (30,480 mm) from the junction of the building drain and building sewer, at each change of direction and at intervals or not more than 400 feet (122 m) apart. Manholes and manhole covers shall be of approved type.]**BUILDING SEWERS SMALLER THAN 6 INCHES (153 MM) SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30,480 MM). BUILDING SEWERS 6 INCHES (203 MM) AND LARGER SHALL HAVE A MANHOLE LOCATED NOT MORE THAN 100 FEET (30,480 MM) FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER AND AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, A MANHOLE OR THE END OF THE BUILDING SEWER.**	Revised language for cleanouts for building sewers to match revisions to IPC. Incorporated previous WSSC Code amendments.	RSD staff	None.
CH3.009	New 302.7.5	302.7.5 IPC 708.1, Cleanouts required, is hereby AMENDED by MODIFYING Section 708.1.3 to require all building sewer cleanouts be installed outside, all to read as follows: (IPC as amended) 708.1.3 Building drain and building sewer junction. The junction of the building drain and the building sewer shall be served by a cleanout that is located at the junction. The cleanout piping shall extend from the wye fitting connection to grade, terminating outside of the structure. In un-paved areas, the cleanout shall extend 6 inches (152 mm) above grade; in paved areas, access shall comply with Commission Standard Detail S5.1 or S5.2. **EXCEPTION: UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS THAT ARE REPLACED BY PIPE-BURSTING METHODS ARE NOT REQUIRED TO HAVE A CLEANOUT AT JUNCTION OF BUILDING DRAIN AND SEWER IF THE FOLLOWING CONDITIONS ARE MET:** **1. FOR THE PIPING RESTORED BY PIPE BURSTING, THE MAXIMUM DISTANCE FROM THE INSIDE CLEANOUT TO NEXT DOWNSTREAM CLEANOUT IS 100 FEET.** **2. THE CLEANOUT MEETS ALL OTHER ACCESSIBILTY REQUIREMENTS OF THE CODE.**	Added language to allow exception to requirement for cleanout at junction of building drain and building sewer. Pipe bursting is a trenchless pipe restoration/replacement technic. Requiring a cleanout at junction of building drain and building sewer requires excavation or trenching. The exception allows the cleanout to be installed inside the building to avoid additional excavation.	RSD staff	Decrease. An exception for the requirement of a cleanout at the junction of building sewer and building cleanout will decrease cost. Adding a cleanout at junction would require ddditional excavation and materials.

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CH3.010	New 302.7.7 (Formerly 302.7.6)	[302.7.6 IPC Section 708.1, Cleanouts required, is hereby AMENDED by ADDING as new Sections 708.1.11 and 708.1.11.1, requirements for a property line cleanout, all to read as follows: (IPC as amended) 708.1.11 Property line. Commission sewer service connections with a vertical riser, shall be connected to by the plumber in accordance with Commission Standard Details S-5.0. The cleanout cover assembly shall be installed by the plumber in accordance with Commission Standard Detail S-5.1 or S-5.2. 708.1.11.1 Replacement sewers. When an existing sewer service connection is being re-connected to, or, when an existing building sewer is being replaced, a property line cleanout shall be established by the plumber. The base connection shall be a combination wye and one-eighth bend lying on its back, connected immediately to the Commission service connection located at the property line or edge of right-of-way. The cleanout cover assembly shall conform with Commission Standard Detail S-5.1 or S-5.2. See this Code Section 112.1.6.]	Relocated to match revisions to IPC.	RSD staff	None.
CH3.011	New 302.7.6 (Formerly 302.7.7)	[302.7.7]**302.7.6** IPC Section [708.1.10]**708.1.11, CLEANOUT** Access, is hereby AMENDED by MODIFYING **TO CLARIFY THAT WSSC STANDARD DETAILS ARE APPROVED FOR USE IN PAVED AREAS AND** to include a height restriction to facilitate safe and practical servicing of drain lines, all to read as follows: (IPC as amended) **708.1.11.1 CLEANOUT PLUG TRIM COVERS. TRIM COVERS AND ACCESS DOORS FOR CLEANOUT PLUGS SHALL BE DESIGNED FOR SUCH PURPOSES AND SHALL BE APPROVED. TRIM COVER FASTENERS THAT THREAD INTO CLEANOUT PLUGS SHALL BE CORROSION RESISTANT. CLEANOUT PLUGS SHALL NOT BE COVERED WITH MORTAR, PLASTER OR ANY OTHER PERMANENT MATERIAL.** **708.1.11.1.1 APPROVED CLEANOUT PLUG TRIM COVERS FOR PAVED AREAS. CLEANOUT COVER ASSEMBLIES THAT CONFORM WITH COMMISSION STANDARD DETAIL S-5.1 OR S-5.2 ARE APPROVED FOR PAVED AREAS, INCLUDING CLEANOUTS OF THE BUILDING SEWER BETWEEN THE JUNCTION WITH THE BUILDING DRAIN AND THE CLEANOUT AT THE PROPERTY LINE.** [708.1.10.3]**708.1.11.3** Usable access. Cleanout openings shall not exceed 36 inches (762 mm) above finished floor level. Where provided, cleanouts serving horizontal drainage systems above ceiling level shall extend to the floor above and terminate as an accessible floor cleanout or extend to outdoors.	Revised language to clarify that WSSC standard details are approved for use in paved areas. Also revised to match revised language in IPC.	RSD staff	None.

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CH3.012	New 302.7.7 (Formerly 302.7.6)	**302.7.7 IPC SECTION 708.1, CLEANOUTS REQUIRED, IS HEREBY AMENDED BY ADDING AS NEW SECTIONS 708.1.13 AND 708.1.13.1, REQUIREMENTS FOR A PROPERTY LINE CLEANOUT, ALL TO READ AS FOLLOWS:** **(IPC AS AMENDED)** **708.1.13 PROPERTY LINE. COMMISSION SEWER SERVICE CONNECTIONS WITH A VERTICAL RISER, SHALL BE CONNECTED TO BY THE PLUMBER IN ACCORDANCE WITH COMMISSION STANDARD DETAILS S-5.0. THE CLEANOUT COVER ASSEMBLY SHALL BE INSTALLED BY THE PLUMBER IN ACCORDANCE WITH COMMISSION STANDARD DETAIL S-5.1 OR S-5.2.** **708.1.13.1 REPLACEMENT SEWERS. WHEN AN EXISTING SEWER SERVICE CONNECTION IS BEING RE-CONNECTED TO, OR, WHEN AN EXISTING BUILDING SEWER IS BEING REPLACED, A PROPERTY LINE CLEANOUT SHALL BE ESTABLISHED BY THE PLUMBER. THE BASE CONNECTION SHALL BE A COMBINATION WYE AND ONE-EIGHTH BEND LYING ON ITS BACK, CONNECTED IMMEDIATELY TO THE COMMISSION SERVICE CONNECTION LOCATED AT THE PROPERTY LINE OR EDGE OF RIGHT-OF-WAY. THE CLEANOUT COVER ASSEMBLY SHALL CONFORM WITH COMMISSION STANDARD DETAIL S-5.1 OR S-5.2. SEE THIS CODE SECTION 112.1.6.**	Relocated to match revisions to IPC.	RSD staff	None.
CH3.013	302.7.8	302.7.8 IPC Section 714, BACKWATER VALVES, is hereby AMENDED by MODIFYING Section 714.1 to recognize private manholes and by ADDING Section 715.6, to specify marking and labeling requirements for backwater valve access, all to read as follows: (IPC as amended) 714.1 Sewage backflow. Where plumbing fixtures are installed on a floor with a finished floor elevation below the elevation of the manhole cover of the next upstream manhole in a public or private sewer, such fixtures shall be protected by a backwater valve installed in the building drain, or horizontal branch serving such fixtures. Plumbing fixtures installed on a floor with a finished elevation **AT OR** above the elevation of the manhole cover of the next upstream manhole in a public or private sewer shall not discharge through a backwater valve. **IN NEW BUILDINGS WITH NEW MANHOLES AS PART OF SITE UTILITY, REQUIREMENT FOR BACKWATER VALVE SHALL BE DETERMINED BY ELEVATION OF MANHOLE ON SITE UTILITY PLANS.** **EXCEPTION: IN EXISTING BUILDINGS, FIXTURES ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT BE PROHIBITED FROM DISCHARGING THROUGH A BACKWATER VALVE.** 715.6 Marking and labeling. The access cover serving a backwater valve shall be permanently labeled with the following message: “Backwater valve located below this access cover, do not cover with permanent floor finishing material such as carpet or tile.” In addition, a tag shall be affixed at the main water supply valve indicating the use and location of the backwater valve(s).	Added language to clarify that for new construction with new site utility, the requirement for backwater valves is based on the site utility plans. Added exception for existing buildings that allows fixtures above elevation of manhole to be discharged through backwater valve. Without this exception, an existing building with new fixtures could require more piping to connect downstream of existing backwater valve.	RSD staff	Decrease. An exception that allows fixtures in existing buildings that are above the elevation of the manhole cover to discharge through backfwater valve will decrease costs by not requiring additional piping to connect downstream of backwater valve.

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CH3.014	New 302.8.3	**302.8.3 IPC 802.3, INSTALLATION, IS HEREBY AMENDED BY ADDING LANGUAGE FOR TRAPS NOT TO BE VENTED, ALL TO READ AS FOLLOWS:** **(IPC AS AMENDED)** **802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. TRAPS FOR INDIRECT WASTE PIPING SHALL NOT BE VENTED.** **EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR SHALL NOT REQUIRE A TRAP.**	Added language for traps on indirect waste piping to not be vented. The purpose of trap in indirect waste piping is to interupt convective air flow. Having a vent would only promote convective air flow.	RSD staff	Decrease. Not requiring a vent will decrease cost.
CH3.015	302.9.4	302.9.4 IPC 909.1, Distance of trap from vent, is hereby AMENDED by MODIFYING Section 909.1, to clarify that Table 909.1 does not represent maximum slopes as it pertains to the parameters contained in the slope column, all to read as follows: (IPC as amended) 909.1 Distance of trap from vent. Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Table 909.1. The slope in a fixture drain from the trap weir to the vent fitting (trap arm) may exceed the values in Table 909.1, but shall not exceed 1/2 inches (38 mm) per foot (304 mm) (4%) and the provisions stated in Section 909.2 shall also be adhered to. **EXCEPTION: THE DEVELOPED LENGTH OF THE FIXTURE DRAIN FROM THE TRAP WEIR TO THE VENT FITTING FOR SELF-SIPHONING FIXTURES, SUCH AS WATER CLOSETS, SHALL NOT BE LIMITED.**	Added existing language from IPC to clarify that exception is included in the code and not deleted.	RSD staff	None.

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CH3.016	302.9.6	302.9.6 IPC Section 918.8, Prohibited installations, is hereby amended by modified to prohibited installations for air admittance valves, all to read as follows: (IPC as amended) 918.8 Prohibited installations. Air admittance valves shall not be installed in nonneutralized special waste systems as described in Chapter 8 of IPC. Air admittance valves shall not be located in spaces utilized as supply or return air plenums. Air admittance valves shall not be used to vent sumps or tanks except where the vent system for the sump or tank has been designed by an engineer. Air admittance valves shall not be installed on outdoor vent terminals for the sole purpose of reducing clearances to gravity air intakes or mechanical air intakes. 918.8.1 Additional prohibited installations. Air admittance valves shall not be used in FOG waste systems, **NON-RESIDENTIAL** suds-laden waste systems, flammable liquid waste systems, pathogenic waste systems, hospitals, healthcare facilities, adult or child care facilities, or similar at-risk occupancies.	Add language that would allow residential suds-laden waste systems to use AAVs. Examples include residential clotheswashers and laundry trays.	RSD staff	Decrease. Allowing AAVs will decrease costs by not requiring additional vent piping.
CH3.017	1003.1.2	1003.1.2 Approved construction documents. The location, size and piping details shall require plan approval prior to installation**, THIS INCLUDES ANY NEW, ADDED, OR RELOCATED GREASE INTERCEPTOR**.	Added language to clarify that approved construction documents are required for new, added, or relocated grease interceptors.	RSD staff	None.
CH3.018	1003.2.1.2.3	1003.2.1.2.3 Fish scale interceptor. [Seafood prep sinks]**DISCHARGE OF FISH SCALES TO THE COMMISSION'S SANITARY SEWER IS PROHIBITED. SINKS AND EQUIPMENT USED FOR THE PREPARATION OF SEAFOOD AND CLEANING OF EQUIPMENT USED FOR PREPARTION OF SEAFOOD** shall discharge through a local scale interceptor [prior to]**BEFORE** entering any portion of the drainage system or grease abatement system. **PREPARTION OF SEAFOOD INCLUDES SCALING, CUTTING, AND COOKING.**	Added language to require fish scale interceptors for all sinks used for the prepartion of seafood and cleaning of equipment used for the preparation of seafood. Added language to define preparation of seafood.	RSD staff	None.

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CH3.019	New 1003.2.1	**1003.2.1 LABELING AND MARKING. GREASE WASTE PIPING SHALL BE LABELED AS FOLLOWS:** **1003.2.1.1 MARKING BURIED GREASE WASTE PIPING. BURIED GREASE WASTE PIPING SHALL BE PAINTED WITH A CONTINOUS STRIPE OF BROWN PAINT. THE PAINT CAN BE APPLIED BY BRUSH, SPRAYED ON, OR AS APPROVED. THE STRIP SHALL BE MINIMUM 1 INCH (25 MM) WIDE AND LOCATED ON THE TOP CENTER OF PIPE. PAINT TYPE SHALL BE PERMANENT. WATER-BASED PAINT OR PAINT TYPICALLY USED FOR TEMPORARY UTILITY MARKING IS PROHIBITED.** **1003.2.1.2 MARKING FOR OTHER THAN BURIED GREASE WASTE PIPING. WITH THE EXCEPTION OF BURIED GREASE WASTE PIPING, GREASE WASTE PIPING THAT IS CONCEALED OR IN A ROOM OTHER THAN GREASE INTERCEPTOR SHALL BE LABELED AS FOLLOWS:** **1003.2.1.2.1 MARKING LOCATIONS. MARKING LOCATIONS SHALL BE AS FOLLOWS:** **A. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM).** **B. THE MARKING SHALL BE AT ALL CHANGES OF DIRECTION.** **C. THE MARKING SHALL BE ON EACH SIDE OF A PENETRATION THROUGH A PARTITION, WALL, FLOOR, OR CEILING.** **D. THE MARKING SHALL NOT CONCEAL ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED MATERIAL STANDARDS.**	Added language that requires labeling for grease piping that is buried, concealed, or in a room other than grease interceptor.	RSD staff	Increase. Requiring labels will increase the cost due to costs of paint or labels and installation. However, labeling could prevent confusion in the future that will save time and avoid mistakes that could be increase costs.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH3.020	New 1003.2.1	**1003.2.1.2.2 MARKING COLOR AND SIZE. THE MARKING COLOR AND SIZE SHALL BE AS FOLLOWS:** **A. THE MARKING SHALL BE PERMANENT. THE MARKING SHALL BE AS FOLLOWS:** **I. WRAP-AROUND LABELS** **II. NON-ADHESIVE LABELS WITH BANDS OR TIES** **III. ADHESIVE LABELS** **IV. PAINTED** **V. FACTORY APPLIED TO PIPING** **B. THE MARKING SHALL BE A BROWN FIELD MARKED "GREASE WASTE" IN WHITE LETTERS.** **C. THE LENGTH OF BROWN FIELD AND LETTER HEIGHT SHALL BE PER TABLE 1003.2.1.**	Added language that requires labeling for grease piping that is buried, concealed, or in a room other than grease interceptor.	RSD staff	Increase. Requiring labels will increase the cost due to costs of paint or labels and installation. However, labeling could prevent confusion in the future that will save time and avoid mistakes that could be increase costs.
CH3.021	1003.2.7.2.2	1003.2.7.2.2 Interceptor access. Flow-based grease interceptors shall be located in a visible ready access area and readily accessible for daily maintenance, servicing and inspection by the user and the Commission. The user is responsible for providing the necessary access for inspection at their expense. **1003.2.7.2.2.1 ACCESS. IF A NEW VOLUME-BASED GREASE INTERCEPTOR MUST BE INSTALLED WITH ACCESS HIGHER THAN 3 FEET (914 MM) ABOVE FINISHED FLOOR OR GRADE, THE BUILDING OWNER SHALL INSTALL AN OSHA APPROVED PERMANENT PLATFORM AT THE INTERCEPTOR TO PROVIDE ACCESS FOR WORKERS.** **[**1003.2.7.2.2.1**]1003.2.7.2.2.2** Failure to provide access. Failure to provide access for inspection, upon request, shall be a code violation.	For flow-based grease interceptors, added height requirements for access.	RSD staff	Increase. Requiring a platform would increase costs.
CH3.022	1003.2.7.2.3	1003.2.7.2.3 Visible inspection. Upon removal of the interceptor's main access cover(s), the inlet and outlet chambers and baffles shall be unobstructed for visible inspection and not require the removal of internal obstructions such as plugs, caps, panels, etc. Where visible obstructions exist, **[**auxiliary**]GREASE INTERCEPTOR** inspections ports shall be field installed into the inlet or outlet or both piping as needed. **[**Inspection ports shall meet Commission details.**]**	Revised language from "auxiliary" to "grease interceptor" inspections ports. Removed language for "inspection ports shall meet Commission details." Inspection ports are now described in following section.	RSD staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 3 Adoption of International Plumbing Code

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH3.023	New 1003.2.7.2.4	**1003.2.7.2.4 GREASE INSPECTION PORTS FOR FLOW-BASED GREASE INTERCEPTORS. GREASE INSPECTION PORTS SHALL BE COMPOSED OF THE FOLLOWING:** **A. AN ACCESS OPENING IN THE DRAINAGE SYSTEM UTILIZED FOR VIEWING THE EFFLUENT IN DRAINAGE PIPE.** **B. THE CONNECTION AT DRAINAGE PIPE SHALL BE A STRAIGHT TEE, TEST TEE, SINGLE - TWO-WAY CLEANOUT, OR SIMILAR THAT ALLOWS UNOBSTRUCTED VIEW OF EFFLUENT. SANITARY TEES AND WYES ARE PROHIBITED.** **C. ACCESS TO VIEW SHALL BE MADE BY REMOVABLE PLUG OR CAP. PLUG SHALL MEET THE SAME REQUIREMENTS AS THOSE FOR CLEANOUT PLUGS, IPC SECTION 708.1.7. PLUG TRIM COVERS AND ACCESS DOORS SHALL MEET THE SAME REQUIREMENTS AS CLEANOUT PLUG TRIM COVERS, IPC SECTION 708.1.11.1. FLOOR ASSEMBLIES SHALL MEET THE SAME REQUIREMENTS AS FLOOR CLEANOUT ASSEMBLIES, IPC SECTION 708.1.11.2.** **D. FOR BURIED PIPING, THE ACCESS OPENING SHALL EXTEND TO FLOOR BY A PIPE AT 90 DEGREES VERTICAL. THE VERTICAL PIPE SHALL BE SAME SIZE AS DRAINAGE PIPE, EXCEPT THAT VERTICAL PIPE FOR DRAINAGE PIPE 4 INCHES (102 MM) NEED NOT BE LARGER THAN 4 INCHES (102 MM).** **E. INSPECTION PORT SHALL BE PROVIDED WITH A CLEARANCE NOT LESS THAN 24 INCHES (610 MM) FROM, AND PERPENDICULAR TO, THE FACE OF THE ACCESS OPENING TO ANY OBSTRUCTION.** **F. DOWNSTREAM INSPECTION PORTS SHALL BE INSTALLED IN SAME ROOM AS GREASE INTERCEPTOR. AND SHALL BE USPSTREAM OF ANY OTHER CONNECTED BRANCHES OR FIXTURES.**	Added language for requirements for grease inspection ports for flow-based grease interceptors.	RSD staff	None.
CH3.024	New 1003.2.7.2.5	**1003.2.7.2.5 CLEANOUTS FOR FLOW-BASED GREASE INTERCEPTORS. A CLEANOUT OR CLEANOUTS SHALL BE INSTALLED DOWNSTEAM OF FLOW-BASED GREASE INTERCEPTOR. THE CLEANOUT OR CLEANOUTS SHALL ALLOW CLEANING IN BOTH DIRECTIONS. IF THE DISTANCE BETWEEN ACCESS OPENING OF INSPECTION PORT AND PIPE INVERT IS LESS 24 INCHES (620 MM), A CLEANOUT WITH A SINGLE TWO-WAY CLEANOUT FITTING IS ALLOWED.**	Added language to clarify and codify existing requirements for cleanouts for flow-based grease interceptor.	RSD staff	None.
CH3.025	New 1003.2.7.2.5	**1003.2.7.2.5 COMBINATION INSPECTION PORT AND CLEANOUT FOR FLOW-BASED GREASE INTERCEPTORS. A CLEANOUT WITH A SINGLE TWO-WAY CLEANOUT MAY SERVE AS A GREASE INTERCEPTOR INSPECTION PORT.**	Added language to clarify and codify existing requirements for cleanouts for flow-based grease interceptor.	RSD staff	None.
CH3.026	New 1003.2.7.2.10	**1003.2.7.2.10 OUTLET CONNECTION. THE OUTLET OF FLOW-BASED GREASE INTERCEPTORS SHALL BE DIRECTLY CONNECTED TO DRAINAGE SYSTEM.**	Added language to clarify and codify existing requirements for flow-based grease interceptors to be directly connected.	RSD staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 3 Adoption of International Plumbing Code

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH3.027	New 1003.2.8.2.4	1003.2.8.2.4 Manhole and cleanout access. **[**Manholes and cleanouts shall be readily accessible for convenient inspection and maintenance.**]** The discharge or outlet piping of a volume-based grease interceptor shall be serviceable from a downstream manhole or a two-way cleanout **[**shall be installed accordingly**]**. **THE SEWER SHALL BE ABLE TO BE CLEANED IN BOTH DIRECTIONS, FROM CLEANOUTS OR MANHOLE, TO THE OUTLET OF INTERCEPTOR. THE MANHOLE SHALL BE LOCATED WITHIN 40 FEET (12 M) OF THE INTERCEPTOR OUTLET OR THE TWO-WAY CLEANOUT SHALL BE LOCATED WITHIN 10 FEET (3 M) OF INTERCEPTOR OUTLET.** A two-way cleanout consists of two individual cleanouts installed in series with each capable of cleaning out the other, a single two-way cleanout fitting is prohibited. **THE MANHOLE OR TWO-WAY CLEANOUT SHALL BE LOCATED UPSTREAM TO ANY OTHER CONNECTION TO SEWER. OTHER STHESE MANHOLES OR CLEANOUTS SHALL BE READILY ACCESSIBLE FOR CONVENIENT INSPECTION AND MAINTENANCE.**	Added language to clarify and codify existing requirements for cleanouts and manholes for volume-based grease interceptors.	RSD staff	None.
CH3.028	New 1003.2.8.2.7.4	1003.2.8.2.7.4 Access. If a new volume-based grease interceptor must be installed with access higher than **[**5**]3** feet (914 mm) above finished floor or grade, the building owner shall install an OSHA approved permanent platform at the interceptor to provide access for workers.	Lowered the maximum height the access for volume-based grease interceptors can be without requiring a platform.	RSD staff	Increase. Could increase the cost of installation by requiring platform for volume-based grease interceptor.
CH3.029	1003.3.4	1003.3.4 Parking garages. Parking garages with less than 1/3 of side surface areas open to the outdoors and protected from surface and storm water run-off may have inside floor and trough drains connected to the Commission sanitary sewer through an oil and sand interceptor. Parking garages with 40 or less spaces may be served by a small oil and sand interceptor; those with greater than 40 spaces shall be served by a large interceptor. **1003.3.4.1 TRAPS NOT REQUIRED. IF APPROVED, RECEPTOR DRAINS INSIDE PARKING GARAGES ARE NOT REQUIRED TO HAVE TRAPS IF THEY DISCHARGE TO A SAND AND OIL INTERCEPTOR THAT IS APPROVED TO SERVE AS A TRAP FOR THE SYSTEM OF DRAINS.** **EXCEPTION: RECEPTOR DRAINS LOCATED IN NON-PARKING INTERIOR SPACES OF PARKING GARAGES ARE REQUIRED TO HAVE A TRAP. TRAPS SHALL BE VENTED. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED PER IPC SECTION 1002.4.1. THIS INCLUDES ELEVATOR LOBBIES, STAIRWELLS, MECHANICAL ROOMS, UTILITY ROOMS, AND STORAGE ROOMS.** **1003.3.4.2 INTERCEPTOR AS TRAP. SAND AND OIL INTERCEPTORS THAT SERVE AS A TRAP SHALL CREATE A LIQUID SEAL TO PREVENT EMISSION OF SEWER GAS TO RECEPTORS DRAINS. THE INTERCEPTOR OR OUTLET PIPING SHALL BE VENTED TO PROTECT THE TRAP SEAL FROM SIPHONAGE AND BACK PRESSURE.**	Added language to clarify and codify existing requirements for when sand/oil interceptors that act as traps. **Revised after ELT review, RSD suggested revision.** Revised to clarify that interceptor must be "approved" as trap for receptor drains to not require traps.	RSD staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 4 Adoption of International Fuel Gas Code

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH4.001	402.4	402.4 Amendments of IFGC CHAPTER 4, "GAS PIPING INSTALLATIONS" 402.4.1 IFGC Section 401.5, Identification, is hereby amended by modifying Section 401.5, to include additional requirements for gas pipe identification. (IFGC as amended) 401.5 Identification. [All]**WITH THE EXCEPTION OF CSST PIPING, ALL** new installations of gas piping, both exposed and concealed, shall be identified in accordance with Sections 401.5.1 and 401.5.2. 401.5.1 Marking locations. Marking locations shall be as follows: a. The marking shall be spaced at intervals not exceeding 5 feet (1524 mm). b. Exception: for steel piping on the roof, the marking shall be spaced at intervals not exceeding 10 feet (3048 mm). c. The marking shall be at all changes of direction. d. The marking shall be on each side of a penetration through a partition, wall, floor, or ceiling. e. The marking shall be at every gas shutoff valve. 401.5.2 Marking color and size. The marking color and size shall be as follows: a. The marking shall be permanent. The marking shall be as follows: i. Wrap-around labels ii. Non-adhesive labels with bands or ties iii. Adhesive labels iv. Painted v. Factory applied to piping b. The marking shall be a yellow field marked "GAS" in black letters. c. The length of yellow field and letter height shall be per Table 401.5.2. [d. Where nominal gas supply pressure is between 1 psi and 2 psi, marking shall include "MEDIUM PRESSURE" or "MEDIUM PRESS.". e. Where nominal gas supply pressure is greater than 2 psi, marking shall include "HIGH PRESSURE" or "HIGH PRESS."]	Added language to not require additional labeling for CSST piping. CSST piping is typically only used for gas piping. Unlike steel or copper piping for is used for gas, domestic water, sprinkler water, and drainage. Removed language requiring gas piping to be labeled as either medium press or high pressure. The main intent of code language is to label gas piping to differentiate gas piping from other types of piping. Also, it is not uncommon for gas piping pressures to change in system, including medium or high pressure could create confusion.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 4 Adoption of International Fuel Gas Code

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH4.002	New 402.4.6	**402.4.6 IFGC SECTION 410.3.1, VENT PIPING, IS HEREBY AMENDED BY ADDING LANGUAGE REGARDING INSTALLATION OF REGULATOR VENTS BELOW GRADE: (IFGC AS AMENDED)** **410.3.1 VENT PIPING. VENT PIPING FOR RELIEF VENTS AND BREATHER VENTS SHALL BE CONSTRUCTED OF MATERIALS ALLOWED FOR GAS PIPING IN ACCORDANCE WITH SECTION 403. VENT PIPING SHALL BE NOT SMALLER THAN THE VENT CONNECTION ON THE PRESSURE-REGULATING DEVICE. VENT PIPING SERVING RELIEF VENTS AND COMBINATION RELIEF AND BREATHER VENTS SHALL BE RUN INDEPENDENTLY TO THE OUTDOORS AND SHALL SERVE ONLY A SINGLE DEVICE VENT. VENT PIPING SERVING ONLY BREATHER VENTS IS PERMITTED TO BE CONNECTED IN A MANIFOLD ARRANGEMENT WHERE SIZED IN ACCORDANCE WITH AN APPROVED DESIGN THAT MINIMIZES BACKPRESSURE IN THE EVENT OF DIAPHRAGM RUPTURE. REGULATOR VENT PIPING SHALL NOT EXCEED THE LENGTH SPECIFIED IN THE REGULATOR MANUFACTURER'S INSTRUCTIONS. EXCEPT AS ALLOWED BY MANUFACTURER, REGULATOR VENT PIPING SHALL NOT BE INSTALLED UNDERGROUND.**	Added language that would prohibit regulator vent piping to be below ground unless allowed by manufacturer.	RSD Staff	None.
CH4.003	New 402.5.2	**402.5.2 IFGC SECTION 503.10.6 JOINTS, IS HEREBY AMENDED BY ADDING REQUIREMENTS FOR MECHANICALLY FASTENED JOINTS, ALL TO READ AS FOLLOWS: (IFGC AS AMENDED)** **503.10.6 JOINTS. JOINTS BETWEEN SECTIONS OF CONNECTOR PIPING AND CONNECTIONS TO FLUE COLLARS AND DRAFT HOOD OUTLETS SHALL BE FASTENED BY ONE OF THE FOLLOWING METHODS:** **1. ROUND METALLIC DUCTS SHALL BE MECHANICALLY FASTENED BY MEANS OF AT LEAST THREE SHEET METAL SCREWS OR RIVETS SPACED EQUALLY AROUND THE JOINT.** **2. VENT CONNECTORS OF LISTED VENT MATERIAL ASSEMBLED AND CONNECTED TO FLUE COLLARS OR DRAFT HOOD OUTLETS IN ACCORDANCE WITH THE MANUFACTURERS' INSTRUCTIONS.** **3. OTHER APPROVED MEANS.**	Added language to provide specific language regarding how joints are required to be made. This includes requirements for when ducts are mechanically fastened by sheet metal screws or rivets.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.001	New 501.7	**501.7 CROSS-CONNECTION CONTROL. EXCEPT WHERE APPROVED BACKFLOW PREVENTION ASSEMBLIES, BACKFLOW PREVENTION DEVICES OR OTHER APPROVED MEANS OR METHODS ARE INSTALLED TO PROTECT THE POTABLE WATER SUPPLY, CROSS-CONNECTIONS SHALL BE PROHIBITED.**	Added language from IPC.	RSD Staff	None.
CH5.002	New 502.3	**502.3 CONTAINMENT. WITH THE EXCEPTION OF SECTIONS 502.3.2, 502.5, AND 502.6, ALL FACILITIES SHALL HAVE CONTAINMENT BACKFLOW PREVENTERS. CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED FOR DOMESTIC WATER, FIRE SPRINKLER WATER, AND ANY OTHER APPROVED PARALLEL SUPPLY. REQUIREMENT FOR CONTAINMENT APPLIES TO ALL BUILDING WATER SERVICES REGARDLESS OF SOURCE, INCLUDING PRIVATE WELLS.**	This section has been revised to clarify the requirements for containment backflow prevention.	RSD Staff	None.
CH5.003	New 502.3.1	**502.3.1 SERVICE ARRANGEMENTS. THE LOCATION OF CONTAINMENT BACKFLOW PREVENTERS IS DETERMINED BY THE ARRANGEMENT OF DOMESTIC WATER AND FIRE SPRINKLER WATER SERVICES, ANY OTHER APPROVED PARALLEL SUPPLIES, AND THE LOCATION OF METERS. GENERALLY, NEW FACILITIES SHALL HAVE COMBINATION SERVICES FOR DOMESTIC WATER AND FIRE SPRINKLER WATER. COMBINATION WATER SERVICES SHALL BE SIZED FOR DOMESTIC WATER AND FIRE SPRINKLER WATER DEMAND. AFTER ENTERING THE BUILDING, THE DOMESTIC WATER AND FIRE SPRINKLER WATER SEPARATE IN PARALLEL TO ONE ANOTHER AND EACH BRANCH HAS CONTAINMENT BACKFLOW PREVENTER INSTALLED WITH THE APPROPRIATE LEVEL OF BACKFLOW PREVENTION. OTHER APPROVED PARALLEL SUPPLIES MAY ALSO BRANCH OFF. ALL BRANCHES SHALL HAVE CONTAINMENT. ALL END OUTLET USES SHALL BE DOWNSTREAM OF CONTAINMENT.** **502.3.1.1 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN OUTSIDE METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN OUTSIDE METER, CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE COMBINATION WATER SERVICE ENTERS THE BUILDING.** **502.3.1.2 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE MASTER METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE MASTER METER, CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS.**	This section has been added to clarify that the requirements for containment backflow is determined by the arrangement of water services and locations of meters.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.003	New 502.3.1	**502.3.1.3 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE DOMESTIC METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE DOMESTIC METER, THE CONTAINMENT BACKFLOW PREVENTER FOR FIRE SPRINKLER WATER SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. IF A METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS. IF NO METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM OF THE METER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE COMBINATION WATER SERVICE ENTERS THE BUILDING.** **502.3.1.4 SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN OUTSIDE METER. FOR SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN OUTSIDE METER, THE CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE MAIN WATER SERVICE ENTERS THE BUILDING.** **502.3.1.5 SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN INSIDE METER. FOR SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN INSIDE METER, THE CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED AS FOLLOWS:** **a. IF A METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS.** **b. IF NO METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM OF THE METER.** **c. IF NO METER IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE BRANCH**	This section has been added to clarify that the requirements for containment backflow is determined by the arrangement of water services and locations of meters.	RSD Staff	None.
CH5.004	New 502.3.2 (continued)	**502.3.2 INDIVIDUAL METER ARRANGEMENT. EACH INDIVIDUAL METER, INDIVIDUAL METER IS DEFINED IN CHAPTER 2, IS REQUIRED TO HAVE A BACKFLOW PREVENTER.** **502.3.2.1 INDIVIDUAL METER BACKFLOW IN LIEU OF FACILITY CONTAINMENT. BACKFLOW PREVENTERS FOR COMMISSION INDIVIDUAL METERS MAY SERVE AS CONTAINMENT FOR DOMESTIC WATER IF ALL OF THE METERS AND THE ASSOCIATED BACKFLOW PREVENTERS ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SERVICE ENTERS FACILITY OR ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SUPPLY BRANCHES FROM A COMBINATION SERVICE. SEE SECTION 202 FOR DEFINITION OF INDIVIDUAL METER.**	This section has been added to clarify the requirement for a backflow preventer at each individual meter. This section includes language that allows exception for single backflow preventer to serve as building containment where all individual meter backflow preventers are in same room as water service entrance.	RSD Staff	Decrease. Exception for single backflow preventer may decrease cost of labor and materials.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.005	New 502.3.3	**502.3.3 PARALLEL CONTAINMENT. IN NON-RESIDENTIAL APPLICATIONS, MULTIPLE WATER SYSTEMS MAY BE ESTABLISHED IN PARALLEL. BACKFLOW PREVENTERS FOR PARALLEL SYSTEMS SHALL BE IN THE SAME ROOM WHERE THE DOMESTIC WATER SERVICE ENTERS FACILITY OR ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SUPPLY BRANCHES FROM A COMBINATION SERVICE. PARALLEL SYSTEMS SHALL BE ESTABLISHED AS FOLLOWS:** **502.3.3.1 FIRE SPRINKLER WATER SYSTEMS. FIRE SPRINKLER SYSTEMS SHALL BE THE FIRST SUPPLY BRANCH. THIS BRANCH SHALL BE AHEAD OF AN INSIDE DOMESTIC METER AND SHALL HAVE A BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.** **502.3.3.2 DOMESTIC WATER SYSTEM. DOMESTIC BRANCH SHALL BE DOWNSTREAM OF AN INSIDE METER AND SHALL HAVE A CONTAINMENT BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.** **502.3.3.3 IRRIGATION WATER SYSTEM. THIS BRANCH MAY BE AHEAD OF PRESSURE REDUCING STATION, IF APPLICABLE, AND SHALL HAVE A BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.** **502.3.3.4 NON-POTABLE WATER SYSTEM. NON-POTABLE WATER SYSTEM BRANCH SHALL HAVE AN RPBA (ASSE 1013) CONTAINMENT BACKFLOW PREVENTER.** **502.3.3.5 OTHER WATER SYSTEM. OTHER WATER SYSTEM BRANCH SHALL HAVE A CONTAINMENT BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD AND BE APPROVED.**	This section has added to clarify requirements for parallel containment.	RSD Staff	None.
CH5.006	New 502.4	**502.4 ISOLATION. EXCEPT FOR SECTIONS 502.5 AND 502.6, ALL FACILITIES SHALL HAVE ISOLATION BACKFLOW PREVENTERS, AS APPLICABLE.**	This section has been added as part of revision of section.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.007	New 502.5	**502.5 REQUIREMENTS TO RETROFIT EXISTING FACILITIES. WITH THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FACILITIES BUILT BEFORE MAY 1, 2007, AND WITHOUT CONTAINMENT ARE NOT REQUIRED TO HAVE CONTAINMENT. WITH THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FIXTURES AND EQUIPMENT INSTALLED BEFORE MAY 1, 2007, AND WITHOUT ISOLATION ARE NOT REQUIRED TO HAVE ISOLATION.** **502.5.1 HIGH DEGREE OF HAZARD PRESENT. WHERE A HIGH DEGREE OF HAZARD APPLICATION IS PRESENT, THE ADDITION OF CONTAINMENT AND ISOLATION BACKFLOW PREVENTERS IS REQUIRED. WHERE A FACILITY HAS A HIGH HAZARD APPLICATION AND AN EXISTING BACKFLOW PREVENTER IS NOT COMMENSURATE WITH THE DEGREE OF HAZARD, THE BACKFLOW PREVENTER SHALL BE REPLACED WITH A BACKFLOW PREVENTER WITH A HIGH DEGREE OF HAZARD. THESE FACILITIES SHALL BE RECLASSIFIED AS MODERATE OR HIGH HAZARD FACILITIES AND FUTURE INSPECTION FREQUENCY SHALL BE ADJUSTED ACCORDINGLY.** **502.5.2 VOLUNTARY CHANGES TO EXISTING FACILITIES. WHERE ANY OF THE FOLLOWING CONDITIONS PRESENT AS PART OF A VOLUNTARY CHANGE TO AN EXISTING FACILITY, CONTAINMENT AND ISOLATION FOR THE EXISTING FACILITY SHALL MEET THE SAME REQUIREMENTS AS A NEW FACILITY,** **A. REPLACEMENT OR RELINED WATER SERVICE.** **B. CHANGE IN WATER SERVICE CONNECTION SIZE.** **C. REPLACEMENT OR RELINING OF A MINIMUM OF 50 PERCENT OF THE WATER DISTRIBUTION PIPING; OR THE REMODELING OR ADDING OF 25 PERCENT OR MORE TO AN EXISTING PLUMBING SYSTEM.** **D. REPLACEMENT OR CHANGE OF WATER METER.** **E. RESTORATION OF WATER PIPING, UNDER SECTION 302.6.12.** **F. HOMEOWNER PERMIT, UNDER SECTION 106.9.4.4.** **EXCEPTION: WHERE A RESIDENTIAL WATER SERVICE CONNECTION OR WATER SERVICE IS REPAIRED OR REPLACED SOLELY IN RESPONSE TO A MAINTENANCE ISSUE, ADDITION OF BACKFLOW PREVENTION IS NOT REQUIRED.**	This section has been added language that requires retrofit of backflow preventers for voluntary actions including replacement or change of water meter, restoration of water piping, or a homeowner permit. The requirements for retrofit of backflow preventers for replacement or change of meter is new. The requirements for retrofit of backflow preventers is existing and added for reference.	RSD Staff	Increase. Adding language that requires retrofit of backflow preventers if a water meter is voluntarily changed will increase the cost of construction.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.008	New 502.6	**502.6 CONTAINMENT AND ISOLATION OF FEDERAL PROPERTIES. PURSUANT TO FEDERAL REGULATIONS, THE COMMISSION DOES NOT HAVE THE AUTHORITY TO ENFORCE PLUMBING AND GASFITTING REGULATIONS ON FEDERAL PROPERTY. THE COMMISSION REQUIRES PROPERTY CONTAINMENT FOR FEDERAL PROPERTIES.** **502.6.1 PROPERTY CONTAINMENT OF FEDERAL PROPERTY. WITH THE EXCEPTION OF SECTION 502.6.3, FOR THE PROPERTY CONTAINMENT OF A FEDERAL PROPERTY, AN RPBA (ASSE 1013) TESTABLE BACKFLOW PREVENTION ASSEMBLY IS REQUIRED TO BE INSTALLED AT EACH WATER SERVICE CONNECTION. AN RPBA FOR PROPERTY CONTAINMENT SHALL BE INSTALLED ON-PROPERTY AND ADJACENT TO PROPERTY LINE RPBA (ASSE 1013) FOR PROPERTY CONTAINMENT SHALL BE INSTALLED ABOVE GRADE AND PROTECTED FROM FREEZING AND OTHER PHYSICAL DAMAGE PER SECTION 507.6.4. CROSS-CONNECTION TEST REPORTS FOR PROPERTY CONTAINMENT TESTABLE BACKFLOW PREVENTION ASSEMBLIES SHALL BE SUBMITTED ELECTRONICALLY CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS.**	This section has been added to add language that clarifies the requirements and exceptions to the requirements for backflow preventers at federal properties.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.009	New 502.6	**502.6.2 TEST REPORTS FOR FEDERAL PROPERTIES. WITH THE EXCEPTION OF PROPERTY CONTAINMENT BACKFLOW ASSEMBLIES, SECTION 502.6.3 AND PURSUANT TO FEDERAL REGULATIONS, FEDERAL PROPERTIES ARE NOT REQUIRED TO SUBMIT CROSS-CONNECTION TEST REPORTS FOR CONTAINMENT AND ISOLATION BACKFLOW PREVENTION ASSEMBLIES INSTALLED THROUGHOUT THE CAMPUS. EACH CAMPUS SHALL MAINTAIN AN EFFECTIVE BACKFLOW PROGRAM IN ACCORDANCE WITH FEDERAL STANDARDS. PROGRAM MANAGERS MAY VOLUNTARILY SUBMIT CROSS-CONNECTION TEST REPORTS TO THE COMMISSION; IN DOING SO, REPORTS SHALL BE SUBMITTED ELECTRONICALLY CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS.** **502.6.3 CONTAINMENT AND ISOLATION IN LIEU OF PROPERTY CONTAINMENT. IF APPROVED, A FEDERAL PROPERTY MAY HAVE CONTAINMENT AND ISOLATION IN LIEU OF PROPERTY CONTAINMENT. CONTAINMENT AND ISOLATION BACKFLOW PREVENTERS SHALL BE INSTALLED, MAINTAINED, AND TESTED ACCORDING TO THE CODE. CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS UNDER SECTION 504.4, FOR TESTABLE BACKFLOW PREVENTION ASSEMBLIES, CROSS-CONNECTION TEST REPORTS SHALL BE SUBMITTED ELECTRONICALLY.**	This section has been added to add language that clarifies the requirements and exceptions to the requirements for backflow preventers at federal properties.	RSD Staff	None.

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CH5.010	Formerly 502.3	[502.3 Containment and isolation. 502.3.1 New Facilities. New facilities, of all hazard levels, and existing facilities connecting to a new water service connection for the first time, shall require both containment and isolation assemblies or devices, as applicable. Containment backflow preventers shall be installed immediately downstream of the branch that serves the fire sprinkler system. For buildings served by an outside meter, the branches to fire and domestic shall be installed within 5 feet (1,524 mm) of where the main water service enters the building. New facilities, regardless of hazard classification, shall not have separate service lines for fire sprinkler system and domestic use; building water services shall be sized for a combination of fire sprinkler system and domestic water usage. Fire sprinkler system supply may branch off in parallel to the building containment assembly and each branch shall be outfitted with the appropriate level of backflow prevention. 502.3.2 Existing facilities. Containment and isolation assemblies in all facilities shall remain in service, be tested annually and repaired, rebuilt or replaced as otherwise needed to ensure compliance with this Code. Devices shall be replaced or rebuilt every five years. Where any of the following conditions present as part of a design-retrofit or upgrade, containment and isolation assemblies or devices for these facilities shall meet the same requirements as cited under 502.3.1 above: a. Replacement, upgraded, or relined Water Service. b. Replacement or relining of a minimum of 50 percent of the water distribution piping; or the remodeling or adding of 25 percent or more to an existing plumbing system. c. Where a residential water service connection or water service is repaired or replaced solely in response to a maintenance issue, containment backflow prevention shall not be required. 502.3.3 Retrofitting. Facilities built before May 1, 2007, without containment backflow preventers may not need to be retrofitted, unless otherwise deemed warranted by the Commission. the Commission shall require a containment backflow assembly if high degree of hazard application(s) are present. Where a facility has a containment backflow preventer not commensurate with the degree of hazard, an upgrade will be required. These facilities shall be reclassified as moderate or high hazard facilities and future inspection frequency shall be adjusted accordingly. 502.3.4 Containment backflow prevention of federal property. Containment backflow preventers are required for federal properties proximate to each water service connection. RPBA (ASSE 1013) backflow prevention assembly shall be installed above grade and protected from freezing and other physical damage per Section 507.6.2. Backflow Prevention Assembly Test Reports shall be submitted electronically consistent with the Commission's submittal requirements. 502.3.5 Isolation protection on federal property. Pursuant to federal regulations, federal properties are not required to submit Backflow Prevention Assembly Test Reports for isolation backflow prevention assemblies installed throughout the campus. Each campus shall maintain an effective backflow program in accordance with federal standards. Program managers may voluntarily submit Backflow Prevention Assembly Test Reports to the Commission; in doing so, reports shall be submitted electronically consistent with the Commission's submittal requirements.]	Section deleted.	RSD Staff	None.
CH5.011	New 504.4.6	**504.4.6 FINAL INSPECTION. CROSS-CONNECTION TEST REPORT FORMS PRINTED FROM THE COMMISSION'S TEST REPORT SYSTEM, INCLUDING TEST REPORT NUMBER, SHALL BE AVAILABLE FOR FINAL INSPECTION.**	This section has been added to clarify that Cross-Connection Test Reports forms are required at final inspection.	RSD Staff	None.
CH5.012	505.2	505.2 Other standards. Backflow preventers manufactured to other standards may also be installed, provided written approval is first obtained from the Commission. [All equipment connected to the potable water supply system used to retract human or animal body fluids shall be protected by an air gap or a reduced pressure principle backflow assembly.]	Relocated langauge to new Section 506.3 to match IPC.	RSD Staff	None.

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CH5.013	Table 5.2	For ASSE 1012 For Installation Dimensions and Position [Any accessible position] **ATMOSPHERIC VENT** Drain piped to floor or by air gap over a receptor [(Horizontal only)]	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.
CH5.014	Table 5.2	For ASSE 1013 For Installation Dimensions and Position [Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal installation, Vertical installation allowed for approved models Relief Valve Drain piped to air gap over a receptor Area shall be suitable for uncontrolled discharge For Residential Outdoors Only	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.
CH5.015	Table 5.2	For ASSE 1015 For Installation Dimensions and Position [Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal or Vertical Installation	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.

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CH5.016	Table 5.2	For ASSE 1020 For Installation Dimensions and Position Mounting Height Minimum of 12 inches above highest outlet[, Maximum 60 inches to floor/grade] Orientation Vertical only Location [Area Shall Be Suitable for Uncontrolled Discharge] [Residential] Outdoors Only	Removed language for height of installation. Requirement relocated to Section 507.2.2. Revised to prohibit the use of ASSE 1020 backflow preventers inside.	RSD Staff	Increase. For indoor installation, may require a different type of backflow preventer, such as ASSE 1013 or ASSE 1056, which may cost more. However, the uncontrolled discharge of an ASSE 1020 could be costly due to potential damage.
CH5.017	Table 5.2	For ASSE 1022 For Degree of Hazard [Low]**HIGH** For Installation Dimensions and Position Orientation Vertical or horizontal **ATMOSPHERIC PORT** **DRAIN PIPED TO FLOOR OR BY AIR GAP OVER A RECEPTOR** Pipe Material No copper pipe downstream of backflow preventer	Revised degree of hazard to match revisions to IPC. Added language for drain piping to match ASSE 1012.	RSD Staff	None.

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CH5.018	Table 5.2	For ASSE 1024 For Applications Residential Domestic Water Containment Residential Fire Sprinkler System Outside Drinking Fountain **WITH BELOW GRADE DRAIN PORT** Non-carbonated Beverage Dispenser Soft Serve Ice Cream or Yogurt Commercial Ice Maker Dental Operative Unit Water Filter Cartridge Humidifier **THAT DOES NOT HAVE APPROVED INTEGRAL BACKFLOW PROTECTION** Hand Held Shower Tub Spout Below Flood Rim Shower Steamer Food Steamer (less than 1 inch); Wok Range; Proofer; [Eye Wash Station]**EMERGENCY SHOWERS AND EYEWASH STATIONS WITH HOSE** Clothes Dryer with Steamer Dental Model Trimmer Bidet without integral backflow	Added language to clarify that the requirement for ASSE 1024 backflow preventers for outside drinking fountains only applies to those with a below grade drain port. Added language to clarify that the requirement for ASSE 1024 backflow prevnenters for humidifiers only applies to humidifiers that do not have integral backflow prevention that is approved by a Code Official. Added language to clarify that the requirement for ASSE 1024 backflow preventers for emergencey fixtures applies to emergency showers and eyewash stations with a hose.	RSD Staff	Decrease. Only requiring outside drinking fountains with below grade drain ports to have a backflow preventer could decrease cost of construction and maintenance. ASSE 1024 backflow preventers are required to be replaced every 5 years. Only requiring humidifiers that do not have integral backflow prevention to have a backflow preventer could decrease the cost of construction and maintenance. Only requiring emergency eyewash stations with hoses to have a backflow preventer could decrease the cost of construction and maintenance. ASSE 1024 backflow preventers are required to be replaced every 5 years.

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CH5.019	Table 5.2	For ASSE 1047 For Installation Dimensions and Position [Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal installation, Vertical installation allowed for approved models Relief Valve Drain piped to air gap over a receptor Area shall be suitable for uncontrolled discharge For Residential Outdoors Only	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.
CH5.020	Table 5.2	For ASSE 1048 For Installation Dimensions and Position [Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal or Vertical Installation	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.
CH5.021	Table 5.2	For ASSE 1056 For Installation Dimensions and Position Mounting Height Minimum of 12 inches above highest outlet[, Maximum 60 inches to floor/grade] Orientation Vertical only	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.

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CH5.022	Table 5.2	For ASSE 1081 For Installation Dimensions and Position [Any accessible position] **ATMOSPHERIC VENT** Drain piped to floor or by air gap over a receptor **ORIENTATION** [(Horizontal only)]**HORIZONTAL ONLY**	Removed language for height of installation. Requirement relocated to Section 507.2.2.	RSD Staff	None.
CH5.023	New 505.4	**505.4 PROTECTION BY AIR GAP. OPENINGS AND OUTLETS SHALL BE PROTECTED BY AN AIR GAP BETWEEN THE OPENING AND THE FIXTURE FLOOD LEVEL RIM AS SPECIFIED IN TABLE 5.3. OPENINGS AND OUTLETS EQUIPPED FOR HOSE CONNECTION SHALL BE PROTECTED BY MEANS OTHER THAN AN AIR GAP.**	Added section to include language from IPC.	RSD Staff	None.
CH5.024	506.1	506.1 Plumbing fixtures. The supply lines and fittings for every plumbing fixture shall be installed so as to prevent backflow. Plumbing fixture fittings shall provide backflow prevention in accordance with ASME A112.18.1**/CSA B125.1**.	Added standard number to match revisions to IPC.	RSD Staff	None.
CH5.025	New 506.3	**506.3 SPECIAL EQUIPMENT, WATER SUPPLY PROTECTION. ALL EQUIPMENT CONNECTED TO THE POTABLE WATER SUPPLY SYSTEM USED TO RETRACT HUMAN OR ANIMAL BODY FLUIDS SHALL BE PROTECTED BY AN AIR GAP OR A RPBA (ASSE 1013). VACUUM BREAKERS FOR BEDPAN WASHER HOSES SHALL NOT BE LOCATED LESS THAN 5 FEET (1524 MM) ABOVE THE FLOOR. VACUUM BREAKERS FOR HOSE CONNECTIONS IN HEALTH CARE OR LABORATORY AREAS SHALL BE NOT LESS THAN 6 FEET (1829 MM) ABOVE THE FLOOR.**	Added section to include language from IPC.	RSD Staff	None.
CH5.026	New 506.4	**506.4 POTABLE WATER HANDLING AND TREATMENT EQUIPMENT.WATER PUMPS, FILTERS, SOFTENERS, TANKS AND OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER TO BE SUPPLIED TO THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE LOCATED TO PREVENT CONTAMINATION FROM ENTERING THE APPLIANCES AND DEVICES. OVERFLOW, RELIEF VALVE AND WASTE DISCHARGE PIPES FROM SUCH APPLIANCES AND DEVICES SHALL TERMINATE THROUGH AN AIR GAP.**	Added section to include language from IPC.	RSD Staff	None.

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CH5.027	New 506.11	**506.11 HOSE CONNECTIONS. THE PROVISIONS OF THIS SECTION SHALL GOVERN THE REQUIRED BACKFLOW PREVENTION METHODS AND LABELING REQUIRED FOR HOSE CONNECTIONS.** **506.11.1 SELECTION OF BACKFLOW PREVENTER. SILL COCKS, HOSE BIBBS, WALL HYDRANTS AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE OR PRESSURE-TYPE VACUUM BREAKER, A PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER, OR AS APPROVED. SEE TABLE 5.2 FOR SELECTION OF BACKFLOW PREVENTERS.** **EXCEPTIONS:** **1. THIS SECTION SHALL NOT APPLY TO WATER HEATER AND BOILER DRAIN VALVES THAT ARE PROVIDED WITH HOSE CONNECTION THREADS AND THAT ARE INTENDED ONLY FOR TANK OR VESSEL DRAINING.** **2. THIS SECTION SHALL NOT APPLY TO WATER SUPPLY VALVES INTENDED FOR CONNECTION OF RESIDENTIAL-TYPE CLOTHES WASHING MACHINES OR RESIDENTIAL-TYPE STEAM DRYERS WHERE BACKFLOW PREVENTION IS OTHERWISE PROVIDED OR IS INTEGRAL WITH THE MACHINE.**	Added section to clarify and codify existing requirements for backflow preventers for hose connections.	RSD Staff	None.
CH5.028	New 506.11.2	**506.11.2 HIGH HAZARD AREAS. IN ADDITION TO THE REQUIREMENTS OF SECTION 506.11.1, HOSE CONNECTIONS LOCATED IN A HIGH HAZARD AREAS SHALL HAVE AN RPBA (ASSE 1013) INSTALLED ON THE SUPPLY LINE. A SINGLE RPBA MAY SERVE A SUPPLY LINE THAT SUPPLIES WATER TO MULTIPLE HOSE CONNECTIONS AND OTHER LABELED NONPOTABLE USES. NO POTABLE USES MAY BE CONNECTED DOWNSTREAM OF RPBA.** **506.11.2.1 LABELING. ALL HOSE CONNECTIONS AND ANY OTHER WATER OUTLET DOWNSTREAM OF RBPA SHALL BE LABELED AS FOLLOWS: "CAUTION: NONPOTABLE WATER - DO NOT DRINK"**	Added section to clarify and codify existing requirements for backflow preventers for hose connections.	RSD Staff	None.
CH5.029	New 506.11.3	**506.11.3 LOW HAZARD AREAS WITH DRAIN PORTS. IN ADDITION TO THE REQUIREMENTS OF SECTION 506.11.1, HOSE CONNECTIONS THAT DRAIN THE RISER INTO THE GROUND AND LOCATED IN LOW HAZARD AREAS SHALL HAVE A DUAL CHECK VALVE (ASSE 1024) INSTALLED ON THE SUPPLY LINE. A SINGLE DUAL CHECK VALVE MAY SERVE A SUPPLY LINE THAT SUPPLIES WATER TO MULTIPLE HOSE CONNECTIONS.** **506.11.3.1 LABELING. HOSE CONNECTIONS IN LOW HAZARD AREAS WITH UNDERGROUND DRAIN PORTS SHALL BE LABELED AS FOLLOWS: "CAUTION: NONPOTABLE WATER – DO NOT DRINK"**	Added section to clarify and codify existing requirements for backflow preventers for hose connections.	RSD Staff	None.
CH5.030	New 506.11.4	**506.11.4 LABELING LOW HAZARD AREAS FOR POTABLE WATER USE. HOSE CONNECTIONS IN LOW HAZARD AREAS, WITHOUT UNDERGROUND DRAIN PORTS, AND MEETING THE LOW LEAD REQUIREMENTS OF THIS CODE MAY BE LABELED AS FOLLOWS: "POTABLE WATER FOR DRINKING, BATHROOM, & CULINARY USE ONLY." SEE SECTIONS 302.4.4 AND 302.6.7 FOR LOW LEAD REQUIREMENTS. LABELING IS REQUIRED EVEN WHEN HOSE CONNECTION IS FOR A DEDICATED OR PERMANENT END USE.**	Added section to clarify and codify existing requirements for backflow preventers for hose connections.	RSD Staff	None.

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CH5.031	507.2.1	507.2.1 General. Except those approved for seasonal removal or replacement, backflow preventers shall have access for maintenance, replacement and testing. [Backflow preventers shall not be installed where platforms, ladders or lifts are required for access. Backflow preventers shall be installed inside buildings in an area capable of maintaining a minimum temperature of 50°F (20°C).]	Language for access and freeze protection has been deleted and relocated to other sections.	RSD Staff	None.
CH5.032	507.2.2	**507.2.2 HEIGHT OF ABOVE GRADE BACKFLOW PREVENTERS. WITH THE EXCEPTION OF SECTION 507.2.3, THE MAXIMUM HEIGHT ABOVE FINISHED FLOOR OR GRADE FOR A BACKFLOW PREVENTER SHALL BE AS FOLLOWS:** **507.2.2.1 NON-TESTABLE DEVICES. FOR NON-TESTABLE BACKFLOW PREVENTION DEVICES, THE MAXIMUM HEIGHT SHALL BE 5 FEET (1,524 MM). THE HEIGHT SHALL BE MEASURED FROM THE HIGHEST PART OF THE DEVICE.** **507.2.2.2 PRESSURE VACUUM BREAKERS AND SPILL-RESISTANT VACUUM BREAKERS. FOR PVBAS (ASSE 1020) AND SVBAS (ASSE 1056), THE MAXIMUM HEIGHT SHALL BE 5 FEET (1,524 MM). THE HEIGHT SHALL BE MEASURED FROM THE HIGHEST PART OF THE ASSEMBLY.** **507.2.2.3 HORIZONTAL ASSEMBLIES. FOR HORIZONTALLY INSTALLED TESTABLE BACKFLOW PREVENTION ASSEMBLIES GREATER THAN 2 INCHES IN SIZE, THE MAXIMUM HEIGHT SHALL BE 4 FEET (1,219 MM). FOR HORIZONTALLY INSTALLED TESTABLE BACKFLOW PREVENTION ASSEMBLIES 2 INCHES OR LESS, THE MAXIMUM HEIGHT SHALL BE 5 FEET (1,524 MM). THE MAXIMUM HEIGHT SHALL BE MEASURED FROM THE CENTERLINE OF THE ASSEMBLY.** **507.2.2.4 VERTICAL ASSEMBLIES. FOR VERTICALLY INSTALLED TESTABLE BACKFLOW PREVENTION ASSEMBLIES, THE MAXIMUM HEIGHT SHALL BE 6 FEET (1,829 MM). THE HEIGHT SHALL BE MEASURED FROM THE STEM OF THE OUTLET VALVE.** **507.2.3 PLATFORM REQUIRED.** If a new backflow preventer must be installed higher than [5 feet (1,524 mm) above finished floor or grade]**THE MAXIMUM ALLOWED HEIGHT IN SECTION 507.2.2**, the building owner shall install an OSHA approved permanent platform at the backflow preventer to provide access for workers**, CODE OFFICIALS, AND CROSS-CONNECTION TECHNICIANS**. For existing backflow preventers installed higher than 5 feet (1,524 mm) above finished floor or grade, the building owner shall provide an OSHA approved platform or scaffold for maintenance and testing; or the owner shall contract a WSSC-Licensed Master Plumber to relocate the assembly to an approvable location.	Revised language to clarify maximum height requirements and where maximum height is measured from.	RSD Staff	None.

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CH5.033	New 507.2.3	**507.2.3 CLEARANCE REQUIREMENTS. A MINIMUM OF 30 INCHES (762 MM) OF UNOBSTRUCTED SPACE SHALL BE PROVIDED IN FRONT OF BACKFLOW PREVENTION ASSEMBLIES OR DEVICES FOR MAINTENANCE AND TESTING. A MINIMUM OF 12 INCHES (304 MM) OF UNOBSTRUCTED SPACE SHALL ALSO BE PROVIDED BEHIND 3-INCH (76 MM) AND LARGER BACKFLOW TESTABLE PREVENTION ASSEMBLIES OR DEVICES. A MINIMUM OF 6 INCHES (152 MM) OF UNOBSTRUCTED SPACE SHALL BE PROVIDED BEHIND 2 INCH (50 MM) AND SMALLER ASSEMBLIES OR DEVICES. A MINIMUM OF 6 FEET (1,828 MM) OF HEADROOM SHALL BE PROVIDED. AN ASSEMBLY OR DEVICE MAY BE INSTALLED IN AN ALCOVE OR UNDER A COUNTER PROVIDED IT IS WITHIN 12 INCHES (304 MM) OF THE OPENING AND POSITIONED IN A SERVICEABLE MANNER.**	Relocated language from former Section 507.3.2.	RSD Staff	None.
CH5.034	507.3	507.3 [Designated area.]**GENERAL** 507.3.1 [General]**LOCATION**. [Backflow]**CONTAINMENT BACKFLOW** preventers **AND TESTABLE ASSEMBLIES** shall be installed in an [area exclusively reserved for such assemblies or devices]**APPROVED LOCATION**. Related appurtenances including valves, water meters, and fire pumps and sprinkler standpipes shall be permitted to share the same area, provided respective [dimensional]**ACCESSIBILITY AND CLEARANCE** requirements can be maintained. [Adequately sized floor drains are recommended for assemblies and devices with relief opening installed inside buildings. The relief port opening shall be installed with a manufacturer's air gap fitting and piped to a floor drain or receptor.]	Revised language to clarify the requirements for location of containment backflow preventers. Relocated language for adequately sized floor drains to Section 507.3.2.	RSD Staff	None.
CH5.035	New 507.3.2	**507.3.2 RELIEF PORT PIPING. THE TERMINATION OF THE PIPING FROM THE RELIEF PORT OR AIR GAP FITTING OF A BACKFLOW PREVENTER SHALL DISCHARGE TO AN APPROVED INDIRECT WASTE RECEPTOR OR TO THE OUTDOORS WHERE IT WILL NOT CAUSE DAMAGE OR CREATE A NUISANCE. THE INDIRECT WASTE RECEPTOR AND DRAINAGE PIPING SHALL BE SIZED TO DRAIN THE MAXIMUM DISCHARGE FLOW RATE FROM THE RELIEF PORT AS PUBLISHED BY THE BACKFLOW PREVENTER MANUFACTURER. THE RELIEF PORT OPENING SHALL BE INSTALLED WITH A MANUFACTURER'S AIR GAP FITTING AND PIPED TO A FLOOR DRAIN OR RECEPTOR.** [507.3.1.1]**507.3.2.1** [Alternate]**AUTOMATIC FAIL SAFE SYSTEM**. Where the drainage system is inadequate, impractical, or where the assembly cannot otherwise be located to accommodate the catastrophic discharge of the RPBA (ASSE 1013) testable backflow prevention assembly, an automatic fail safe system, capable of sensing the failure and activating a system shut down, is [recommended]**ALLOWED**. [Such a]**WITH THE EXCEPTION OF WHEN REDUDANCY IS PROVIDED BY MULTIPLE WATER SOURCES OR BACKFLOW PREVENTERS, AN AUTOMATIC FAIL SAFE** system is prohibited on critical water supplies [that may include]**INCLUDING** fire sprinkler systems and health care facilities [unless a redundancy is in place].	Added section for relief port piping. Most of the language is relocated without change of intent.	RSD Staff	None.

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CH5.036	New 507.4	**507.4 IDENTIFICATION OF NONPOTABLE WATER SYSTEMS. WHERE NONPOTABLE WATER SYSTEMS ARE INSTALLED, THE PIPING CONVEYING THE NONPOTABLE WATER SHALL BE IDENTIFIED EITHER BY COLOR MARKING, METAL TAGS OR TAPE IN ACCORDANCE WITH SECTIONS 507.4.1 THROUGH 507.4.2.3.** **507.4.1 SIGNAGE REQUIRED. NONPOTABLE WATER OUTLETS, SUCH AS HOSE CONNECTIONS, OPEN-ENDED PIPES AND FAUCETS, SHALL BE IDENTIFIED WITH SIGNAGE THAT READS AS FOLLOWS: "NONPOTABLE WATER IS UTILIZED FOR <INSERT APPLICATION NAME>. CAUTION: NONPOTABLE WATER – DO NOT DRINK." THE WORDS SHALL BE LEGIBLY AND INDELIBLY PRINTED ON A TAG OR SIGN CONSTRUCTED OF CORROSION-RESISTANT WATERPROOF MATERIAL OR SHALL BE INDELIBLY PRINTED ON THE FIXTURE. THE LETTERS OF THE WORDS SHALL BE NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT AND IN COLORS IN CONTRAST TO THE BACKGROUND ON WHICH THEY ARE APPLIED. IN ADDITION TO THE REQUIRED WORD-AGE, THE PICTOGRAPH SHOWN IN FIGURE 507.4.1 SHALL APPEAR ON THE REQUIRED SIGNAGE.**	Added section to clarify requirements for identification of nonpotable water systems. New language matches requirements in IPC.	RSD Staff	None.
CH5.037	New 507.4.2	**507.4.2 DISTRIBUTION PIPE LABELING AND MARKING. NON-POTABLE DISTRIBUTION PIPING SHALL BE PURPLE IN COLOR AND SHALL BE EMBOSSED, OR INTEGRALLY STAMPED OR MARKED, WITH THE WORDS: "CAUTION: NONPOTABLE WATER – DO NOT DRINK" OR THE PIPING SHALL BE INSTALLED WITH A PURPLE IDENTIFICATION TAPE OR WRAP. PIPE IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND AN ARROW INDICATING THE DIRECTION OF FLOW. HAZARDOUS PIPING SYSTEMS SHALL ALSO CONTAIN INFORMATION ADDRESSING THE NATURE OF THE HAZARD. PIPE IDENTIFICATION SHALL BE REPEATED AT INTERVALS NOT EXCEEDING 25 FEET (7620 MM) AND AT EACH POINT WHERE THE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. LETTERING SHALL BE READILY OBSERVABLE WITHIN THE ROOM OR SPACE WHERE THE PIPING IS LOCATED.** **507.4.2.1 COLOR. THE COLOR OF THE PIPE IDENTIFICATION SHALL BE DISCERNABLE AND CONSISTENT THROUGHOUT THE BUILDING. THE COLOR PURPLE SHALL BE USED TO IDENTIFY RECLAIMED, RAIN AND GRAYWATER DISTRIBUTION SYSTEMS.** **608.9.2.2 LETTERING SIZE. THE SIZE OF THE BACKGROUND COLOR FIELD AND LETTERING SHALL COMPLY WITH TABLE 5.3.** **507.4.2.3 IDENTIFICATION TAPE. WHERE USED, IDENTIFICATION TAPE SHALL BE NOT LESS THAN 3 INCHES (76 MM) WIDE AND HAVE WHITE OR BLACK LETTERING ON A PURPLE FIELD STATING "CAUTION: NONPOTABLE WATER – DO NOT DRINK." IDENTIFICATION TAPE SHALL BE INSTALLED ON TOP OF NONPOTABLE RAINWATER DISTRIBUTION PIPES, FASTENED NOT LESS THAN EVERY 10 FEET (3048 MM) TO EACH PIPE LENGTH AND RUN CONTINUOUSLY THE ENTIRE LENGTH OF THE PIPE.**	Added section to clarify requirements for identification of nonpotable water systems. New language matches requirements in IPC.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.038	Formerly 507.4	[507.4 Identification of non-potable water. In buildings where non-potable water systems are installed, the piping conveying the non-potable water shall be identified either by color marking or metal tags in accordance with Sections 507.4.1 through 507.4.3. All non-potable water outlets such as hose connections, open ended pipes, and faucets shall be identified at the point of use for each outlet with the words, "Non-potable - not safe for drinking." The words shall be indelibly printed on a tag or sign constructed of corrosion-resistant waterproof material or shall be indelibly printed on the fixture. The letters of the words shall be not less than 0.5 inches (12 mm) in height and color in contrast to the background on which they are applied. 507.4.1 Information. Pipe identification shall include the contents of the piping system and an arrow indication the direction of flow. Hazardous piping systems shall also contain information addressing the nature of the hazard. Pipe identification shall be repeated at maximum intervals of 25 feet (7,620 mm) and at each point where the piping passes through a wall, floor or roof. Lettering shall be readily observable with the room or space where the piping is located. 507.4.2 Color. The color of the pipe identification shall be discernible and consistent throughout the building. The color purple shall be used to identify reclaimed, rain and gray water distribution systems. 507.4.3 Size. The size of the background color field and lettering shall comply with Table 5.3.]	Deleted section and replaced with similar language from IPC.	RSD Staff	None.
CH5.039	507.6.4	507.6.4 [Backflow preventers installed outside.]**FREEZE PROTECTION.** [Unless approved by the Commission, backflow preventers shall be installed inside the building. When installed outside of a building, the building owner shall provide an above grade protective enclosure for the backflow preventers which shall be heated to prevent freezing and properly secured to prevent damage backflow preventer. Outdoor enclosures for backflow preventers shall comply with ASSE 1060, performance requirements for outdoor enclosures for fluid conveying components. Heat shall not be required if the backflow preventer is removed during the winter months. PVBAs and SVBAs may be winterized in place.]**EXCEPT WHERE APPROVED FOR SEASONAL REMOVAL, BACKFLOW PREVENTERS SHALL NOT BE LOCATED IN AREAS SUBJECT TO FREEZING.**	Relocated language for freeze protection to new section 570.6.4.1.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.040	New 507.6.4.1	**507.6.4.1 BACKFLOW PREVENTERS INSTALLED INSIDE. EXCEPT AS APPROVED, BACKFLOW PREVENTERS SHALL BE INSTALLED INSIDE OF BUILDINGS AND LOCATED IN AN AREA CAPABLE OF MAINTAINING A MINIMUM TEMPERATURE OF 50°F (10°C), AS FOLLOWS:** **507.6.4.1.1 CRITICAL DATES. THE ROOM OR AREA SHALL BE HEATED FROM NOVEMBER 1 THROUGH MARCH 31.** **507.6.4.1.2 INSULATION. A METER ROOM OR AREA WITH OUTDOOR EXPOSURE SHALL BE THERMALLY PROTECTED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE REQUIREMENTS. AREAS WITH NO DIRECT EXPOSURE TO THE OUTDOORS SHALL NOT REQUIRE EXTRA THERMAL PROTECTION.** **507.6.4.1.3 HEAT SOURCE. WHERE A HEAT SOURCE IS REQUIRED, IT SHALL BE PERMANENTLY INSTALLED AND THERMOSTATICALLY CONTROLLED WITHIN THE AREA. AS AN ALTERNATIVE, HEAT MAY BE PROVIDED INDIRECTLY WITH PRIOR APPROVAL BY THE CODE OFFICIAL.**	Revised section for protection of backflow preventers to match language for protection of meters. Added language to require permanent source of heat.	RSD Staff	None.
CH5.041	New 507.6.4.2	**507.6.4.2 OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION DEVICES. OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CODE OFFICIAL AND COMPLY WITH ASSE 1060.**	Relocated language for freeze protection provided by ASSE 1060 from section 507.6.4.	RSD Staff	None.
CH5.042	New 507.6.4.3	[507.6.4.1 Unions required.]**507.6.4.3 SEASONAL REMOVAL. BACKFLOW PREVENTERS MAY BE INSTALLED IN AREAS SUBJECT TO FREEZING IF THEY ARE PROTECTED FROM FREEZING BY SEASONAL REMOVAL.** [Assemblies]**BACKFLOW PREVENTERS** for seasonal [application]**REMOVAL** shall be installed with unions. **REMOVED BACKFLOW PREVENTER SHALL BE SAFELY STORED IN A CONDITIONED SPACE.** Exception: Unions shall not be required if [assembly]**BACKFLOW PREVENTER** is designed to allow the working components between the shutoff valves to be removed. The removed components shall be safely stored in a conditioned space.	Added language to clarify requirements for unions and seasonal removal of backflow preventers.	RSD Staff	None.
CH5.043	507.6.5	507.6.5 Prohibited locations. Backflow preventers designed to vent to atmosphere and potable system drainage valves (such as stop and waste or boiler drain type), shall not be installed in pits, vaults or similar submerged areas and shall not be installed in chemical or fume hoods. Backflow preventers shall [also] be protected from freezing. Backflow preventers shall be installed outside of hazardous environment areas.	Removed unnecessary language.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 5 Cross-Connection Control Backflow Prevention

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH5.044	New 507.6.11	**507.6.11** [Painting of water tanks.]**POTABLE WATER TANKS.** [The interior surface of a potable water tank shall not be lined, painted, or repaired with any material that changes the taste, odor, color or potability of the water supply when the tank is placed in, or returned to, service.]**WHERE IN CONTACT WITH POTABLE WATER INTENDED FOR DRINKING WATER, WATER TANKS, COATINGS FOR THE INSIDE OF TANKS AND LINERS FOR WATER TANKS SHALL CONFORM TO NSF 61. THE INTERIOR SURFACE OF A POTABLE WATER TANK SHALL NOT BE LINED, PAINTED OR REPAIRED WITH ANY MATERIAL THAT CHANGES THE TASTE, ODOR, COLOR OR POTABILITY OF THE WATER SUPPLY WHEN THE TANK IS PLACED IN, OR RETURNED TO, SERVICE.**	Revised language to match revisions to IPC.	RSD Staff	None.
CH5.045	508.5.4	508.5.4 License number. [Cross-Connection Technicians shall be required to provide their license number on all test reports. Submission of a test report online will not be possible without providing a license number. Cross-connection technicians must also provide the license number of the WSSC-Licensed Master Plumber.]**THE LICENSE NUMBER OF CROSS-CONNECTION TECHNICIAN THAT PERFORMS FIELD TEST SHALL BE ENTERED INTO CROSS-CONNECTION TEST REPORT SYSTEM.**	Revised language to clarify the requirements for license number for Cross-Connection Test Report.	RSD Staff	None.
CH5.046	506.9.1	**506.9.1 Automatic residential fire sprinkler systems.** On residential buildings equipped with an NFPA 13D or 13R residential fire sprinkler system **AND WITH AN INSIDE METER**, the tee feeding the residential fire sprinkler system shall be located [on the outlet side of]**BEFORE** the meter. Potable water systems shall be protected against backflow from automatic fire sprinkler systems by a minimum of a dual check backflow preventer (ASSE 1024). Chemical additives shall be prohibited in residential fire sprinkler systems. No valve shall be installed on the tee branch supplying the fire sprinkler system.	**Revised after ELT review, RSD suggested revision.** This is a correction. Revised language for tee for fire sprinkler water shall be before meter. Fire sprinkler water is no longer required to be metered.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 6 Commission Water Meters

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets **[Deleted]**	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH6.001	603	**SECTION 603 SUPPLY SHUTOFF VALVES**	New section created to consolidate supply shutoff valves. Formerly located in Section 603.2 "Building service valves" and Section 604.3 "Building service valves."	RSD Staff	None.
CH6.002	603.1 and 603.5	**603.1 SUPPLY SHUTOFF VALVES. THE REQUIREMENTS FOR SUPPLY SHUTOFF VALVES AFTER THE WATER SERVICE ENTERS THE BUILDING ARE IN SECTIONS 603.2 THROUGH 603.5. THE LOCATION OF SHUTOFF VALVES IS DETERMINED BY THE ARRANGEMENT OF THE DOMESTIC WATER, FIRE SPRINKLER WATER, AND OTHER WATER SUPPLIES; THE TYPE OF CONTAINMENT BACKFLOW PREVENTERS; AND THE LOCATION OF COMMISSION METERS. FOR SERVICE ARRANGEMENTS AND LOCATION OF CONTAINMENT BACKFLOW PREVENTERS, SEE SECTION 502.3.1. GENERALLY, SHUTOFF VALVES SHALL BE PROVIDED TO ALLOW FOR THE MAINTENANCE OF CONTAINMENT BACKFLOW PREVENTERS, THE MAINTENANCE OF WATER METERS, AND THE ISOLATION OF DOMESTIC WATER SUPPLY AND OTHER PARALLEL SUPPLIES FROM THE FIRE SPRINKLER WATER SUPPLY.**	This section has been added to clarify that the requirements for supply shutoff valves are determined by the arrangement of water services, backflow preventers, and locations of meters.	RSD Staff	None.
CH6.003	603.2	**603.2 TYPES OF SUPPLY SHUTOFF VALVES. THE TYPES OF SUPPLY SHUTOFF VALVES ARE AS FOLLOWS:** **603.2.1 COMBINATION SUPPLY SHUTOFF VALVE. A COMBINATION SUPPLY SHUTOFF VALVE IS A SINGLE FULL FLOW SHUTOFF VALVE THAT IS INSTALLED IMMEDIATELY AFTER A COMBINATION SERVICE ENTERS A BUILDING, PRIOR TO ANY BRANCHES, AND THAT CAN SHUTOFF ALL WATER SUPPLIES, INCLUDING THE FIRE SPRINKLER WATER, DOMESTIC WATER, AND ANY OTHER PARALLEL WATER SUPPLY BRANCHES.** **603.2.2 ISOLATION SHUTOFF VALVE. AN ISOLATION SHUTOFF VALVE IS A SHUTOFF VALVE THAT CAN SHUTOFF INDIVIDUAL SUPPLIES, INCLUDING DOMESTIC WATER OR OTHER PARALLEL SUPPLIES. AN ISOLATION SHUTOFF VALVE SHALL NOT BE USED TO SHUTOFF THE FIRE SPRINKLER WATER SUPPLY.** **603.2.3 INSIDE WATER METER SHUTOFF VALVE. A WATER METER SHUTOFF VALVE IS A SHUTOFF VALVE THAT IS INSTALLED AS A COMPONENT OF A COMMISSION METER ASSEMBLY INSTALLED ACCORDING TO A WSSC STANDARD DETAIL FOR AN INSIDE WATER METER.** **603.2.4 BACKFLOW ASSEMBLY SHUTOFF VALVE. A BACKFLOW ASSEMBLY SHUTOFF VALVE IS A SHUTOFF VALVE THAT IS PART OF A TESTABLE BACKFLOW PREVENTION ASSEMBLY.** **603.2.4 SINGLE SERVICE SHUTOFF VALVE. A SINGLE SERVICE SHUTOFF VALVE IS A SHUTOFF VALVE FOR SERVICES THAT ARE NOT A COMBINATION FIRE SPRINKLER WATER AND DOMESTIC WATER SERVICE.**	This section has been added to clarify the types of valves that are used as supply shutoff valve.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 6 Commission Water Meters

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets **[Deleted]**	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH6.004	603.3	**603.3 ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR COMBINATION SERVICES. THE ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER SERVICES SHALL BE AS FOLLOWS:** **603.3.1 SHUTOFF OF FIRE SPRINKLER WATER SUPPLY. THE ONLY SHUTOFF VALVE FOR FIRE SPRINKLER WATER SHALL BE THE TESTABLE BACKFLOW ASSEMBLY SHUTOFF VALVES OR A COMBINATION SUPPLY SHUTOFF VALVE. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A COMBINATION SUPPLY SHUTOFF VALVE IS REQUIRED. THE COMBINATION SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE COMBINATION SERVICE ENTERS THE BUILDING. THE COMBINATION VALVE SHALL BE INSTALLED SO THAT THE FIRE SPRINKLER WATER CANNOT BE SHUTOFF WITHOUT ALSO SHUTTING OFF THE DOMESTIC WATER SUPPLY. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A TESTABLE BACKFLOW PREVENTION ASSEMBLY, THE ONLY SHUTOFF VALVES FOR FIRE SPRINKLER WATER SHALL BE BACKFLOW ASSEMBLY SHUTOFF VALVES. NO ADDITIONAL SHUTOFF VALVES SHALL BE INSTALLED ON FIRE SPRINKLER WATER.** **603.3.2 SHUTOFF OF DOMESTIC WATER SUPPLY. AN ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF THE DOMESTIC WATER SUPPLY. ISOLATION SHUTOFF VALVES SHALL NOT BE ABLE TO CONTROL OR SHUTOFF FIRE SPRINKLER WATER. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS THE ISOLATION SHUTOFF VALVE. THE ISOLATION SHUTOFF VALVE SHALL BE INSTALLED ON THE DOMESTIC SUPPLY BRANCH AND WITHIN 5 FEET (1,524 MM) DOWNSTREAM FROM WHERE DOMESTIC WATER BRANCHES FROM THE COMBINATION SUPPLY.** **603.3.3 SHUTOFF OF OTHER PARALLEL SUPPLIES SUPPLY. AN ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF EACH OF ANY OTHER PARALLEL SUPPLIES. ISOLATION SHUTOFF VALVES SHALL NOT BE ABLE TO CONTROL OR SHUTOFF FIRE SPRINKLER WATER. A INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS THE ISOLATION SHUTOFF VALVE. THE ISOLATION SHUTOFF VALVE SHALL BE INSTALLED ON EACH PARALLEL SUPPLY**	This section has been added to clarify where different types of valves that are used as supply shutoff valve for combination services.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 6 Commission Water Meters

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH6.005	603.4	**603.4 ARRANGEMENT OF SINGLE SERVICE SHUTOFF VALVES. ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR SERVICES THAT ARE NOT A COMBINATION FIRE SPRINKLER WATER AND DOMESTIC WATER SERVICE:** **603.4.1 SHUTOFF OF FIRE SPRINKLER WATER. THE ONLY SHUTOFF VALVES FOR A SINGLE FIRE SPRINKLER WATER SHALL BE THE TESTABLE BACKFLOW ASSEMBLY SHUTOFF VALVES OR A SINGLE SERVICE SHUTOFF VALVE. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A FULL FLOW SINGLE SERVICE SHUTOFF VALVE IS REQUIRED. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE SINGLE FIRE SPRINKLER WATER SERVICE ENTERS THE BUILDING. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A TESTABLE BACKFLOW PREVENTION ASSEMBLY, THE ASSEMBLY VALVES SHALL SERVE AS THE SINGLE SERVICE SHUTOFF VALVE. NO ADDITIONAL SHUTOFF VALVES SHALL BE INSTALLED ON FIRE SPRINKLER WATER.** **603.4.2 SHUTOFF OF DOMESTIC WATER. A SINGLE SERVICE SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF DOMESTIC WATER SERVICE. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS A SINGLE SERVICE SHUTOFF VALVE. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE DOMESTIC WATER SERVICE ENTERS THE BUILDING. ADDITIONAL SHUTOFF VALVES ARE ALLOWED.** **603.4.3 SHUTOFF OF OTHER WATER SUPPLIES. A SINGLE SERVICE ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF OTHER WATER SERVICES. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS A SINGLE WATER SHUTOFF VALVE. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE OTHER SUPPLY WATER SERVICE ENTERS THE BUILDING. ADDITIONAL SHUTOFF VALVES ARE ALLOWED.**	This section has been added to clarify where different types of valves that are used as supply shutoff valve for single services.	RSD Staff	None.
CH6.006	603.5	**603.5 SHUTOFF VALVES FOR LIMITED SYSTEMS. FOR LIMITED SYSTEMS SEE SECTION 506.9.2.3. MULTIPLE SHUTOFF VALVES ARE ALLOWED ON DOMESTIC WATER SUPPLY THAT SERVES LIMITED SYSTEM. FOR LIMITED SUPPLY SYSTEMS WITH ISOLATION BACKFLOW PREVENTION PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A FULL FLOW SHUTOFF VALVE SHALL BE INSTALLED AFTER BRANCH AND BEFORE DEVICE.**	This section has been added to clarify supply shutoff valves requirements for limited systems.	RSD Staff	None.
CH6.007	604	SECTION [603]**604** OUTSIDE WATER METERS	Section number revised per addition of Section 603.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 6 Commission Water Meters

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH6.008	Formerly 603.2	[603.2 Building service valves. 603.2.1 First valve (water service shutoff valve). A full-flow building water service shutoff valve shall be installed within 3 feet (914 mm) of where the building water service enters the building. 603.2.2 Second valve (domestic isolation shutoff valve). When a NFPA 13D or 13R fire sprinkler system is specified, a second full-flow shutoff valve shall be installed to isolate domestic water from fire sprinkler system and to provide an uninterrupted fire sprinkler system supply. Irrigation supplies, hose bibbs, and pressure reducing valves, shall be installed after the fire sprinkler supply tee; and may be installed ahead of the domestic isolation valve. 603.2.3 Parallel systems. When a NFPA 13 fire sprinkler system is specified, a minimum of a DCVA (ASSE 1015) shall be installed to protect the domestic water from the fire sprinkler system. The supply for the fire sprinkler system may tee off before or after the first valve. When ahead of the first valve, a second valve (domestic isolation shutoff valve) valve is recommended but not required. Irrigation supplies, hose bibs, and pressure reducing valves shall be installed after the first valve and after fire sprinkler tee, as applicable. Process water and non-potable water systems may be established in parallel to the domestic water branch; each branch shall contain a RPBA (ASSE 1013).]	This section has been removed and replaced with Section 603.	RSD Staff	None.
CH6.009	Formerly 604.3	[604.3 Building service valves. 604.3.1 First valve (service isolation valve). A full-flow building water service valve shall be installed within 3 feet (914 mm) of where the building water service enters the building, as close as practical to the meter, and shall be in the same room as the water meter. 604.3.2 Second valve (domestic isolation). When a NFPA 13D or 13R fire sprinkler system is specified, a second full-flow valve shall be installed to provide domestic isolation and to provide an uninterrupted fire sprinkler supply. Irrigation supplies, hose bibbs, and pressure reducing valves, shall be installed after the fire sprinkler supply tee, and may be installed ahead of the domestic isolation valve. 604.3.3 Parallel systems. When a NFPA 13 fire sprinkler system is specified, the domestic water shall be protected against backflow commensurate with the requirements set forth in Chapter 5 of this Code. The supply for the fire sprinkler system shall tee off before the domestic meter assembly. Downstream of the domestic meter assembly, process water and non-potable water systems may be established in parallel to the domestic water branch; each branch shall contain a RPBA (ASSE 1013). 604.3.4 Meter isolation and bypass. Valves on larger meters, meter isolation and bypass valves shall be in the same room as the meter, and as close as practical to the meter. 604.3.4.1 Bypass valve requirement. The required bypass shut off valve within an individual meter piping assembly shall be a tamper resistant and lockable type ball valve.]	This section has been removed and replaced with Section 603.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 7

This Chapter is deleted in its entirety and intentionally left blank

For provisions relating to design and construction of site utility systems (formerly Chapter 7), refer to the WSSC Development Services Code.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 8 Industrial and Special Waste

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.001	801.2	"Best management practices (BMPs)" means methods, activities, prohibitions of practices, maintenance procedures, and other management practices designed to [reduce the quantity of pollutants discharged to a pretreatment system or to the POTW]**IMPLEMENT THE PROHIBITIONS LISTED IN SECTION 802 AND SECTION 804 OF THE CODE**. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.	Revised per comments made by EPA.	RSD Staff	None.
CH8.002	801.2	"Composite sample" means a combination of individual samples collected at regular intervals over a time period [not to exceed 24 hours in any given]**LIMITED TO WITHIN A SINGLE** calendar day. The volume of each individual sample may be either proportional to the flow rate during the sample period (flow composite), or constant and collected at equal time intervals during the composite period (time composite).	Revised from 24 hours in a calendar day to a single calendar day.	RSD Staff	None.
CH8.003	801.2	**"INDUSTRIAL WASTE MONITORING POINT (IWMP)" MEANS A COMMISSION APPROVED ACCESS OPENING TO THE BUILDING DRAINAGE SYSTEM FOR THE PURPOSE OF OBTAINING SAMPLES OF THE INDUSTRIAL USER'S WASTE DISCHARGES. LIMITS IMPOSED ON PERMITTED INDUSTRIES APPLY AT THIS POINT.**	Relocated definition. Revised from "port" to "point."	RSD Staff	None.
CH8.004	801.2	[**"**Industrial Waste Monitoring Port (IWMP)" means a Commission approved access opening to the building drainage system for the purpose of obtaining samples of the industrial user's waste discharges. Limits imposed on permitted industries apply at this point.]	Relocated definition. Revised from "port" to "point."	RSD Staff	None.
CH8.005	801.2	"POTW" means a **TREATMENT WORKS AS DEFINED BY SECTION 212 OF THE CLEAN WATER ACT, WHICH IS OWNED BY THE COMMISSION.** Publicly-Owned Treatment Works of the Commission, [which] includes any device and system used in storage, treatment, recycling, and reclamation of municipal sewage or industrial waste of a liquid nature. Also included are sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality, as defined in Section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.	Revised per comments made by EPA.	RSD Staff	None.
CH8.006	801.2	"Pretreatment standards, **NATIONAL PRETREATMENT STANDARDS** or standards [prohibited]" means prohibited discharge standards, categorical [Pretreatment Standards]**PRETREATMENT STANDARDS**, state pretreatment standards, [and] local limits**, AND ANY PROHIBITED DISCHARGE LIMITS PURSUANT 40 CFR 403.5**.	Revised per comments made by EPA.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 8 Industrial and Special Waste

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.007	801.2	[“Total PCBs” means the summation of all concentrations for Arochlor 1016, 1221, 1232, 1242, 1248, 1254, and 1260 that are above the reporting detection limit (RDL) or reporting limit (RL) of 0.001 mg/L. EPA analytical method 608 shall be used for all PCB analysis.]	Removed redundant language. This language is included in Table 804.1.9.	RSD Staff	None.
CH8.008	804.1.14	804.1.14 Dilution prohibition. [Any]**EXCEPT WHERE EXPRESSLY AUTHORIZED TO DO SO BY AN APPLICABLE PRETREATMENT STANDARD OR REQUIREMENT, ANY** water added to a discharge as a partial or complete substitute for proper treatment to achieve compliance with applicable discharge limitations for any wastewater constituent.	Revised per comments made by EPA.	RSD Staff	None.
CH8.009	Formerly 804.1.20	[804.1.20 Mercury. Except as otherwise provided in this section, any substance containing mercury in amounts greater than 0.03 mg/L. Dental practices may follow Commission approved Best Management Practices (BMPs) for dental waste dischargers, in lieu of monitoring for the numerical discharge limitation for substances containing mercury.]	Relocated to Table 804.1.9.	RSD Staff	None.
CH8.010	Table 804.1.9	Inorganics (total) Concentration (mg/l) **MERCURY 0.03**	Relocated from former Section 804.1.20.	RSD Staff	None.
CH8.011	Table 804.1.9	Conventionals **TOTAL** Dissolved Solids **TOTAL** Suspended Solids [BOD]**BIOCHEMICAL OXYGEN DEMAND** (5-day, 20□C) Total [Phosphorous]**PHOSPHORUS**	Revised table with correct language.	RSD Staff	None.
CH8.012	Table 804.1.9	4.Total [PCBs]**POLYCHLORINATED BIPHENYLS (PCBs)** shall consist of the summation of all concentrations for Arochlor 1016, 1221, 1232, 1242, 1248, 1254, and 1260 that are above the reporting detection limit (RDL) or reporting limit (RL) of 0.001 mg/L. **AN** EPA **APPROVED** analytical method [608]**PER 40 CFR 136** with a minimum RDL or RL of 0.001 mg/L shall be used for all PCB analysis.	Revised to include entire language for acronym for PCBs. Revised to include reference for Code of Federal Regulations (CFR).	RSD Staff	None.
CH8.013	Table 804.1.9	6. In the event an Industrial User monitors their pH continuously, a pH violation shall be construed as any excursion less than 6 or greater than 10 for more than 15 minutes [at any one time]**CONSECUTIVELY**, or more than 30 minutes in aggregate, for any calendar day. In the event that an Industrial User monitors their pH by collecting grab samples, a pH violation shall exist if greater than 6.25% of the grabs taken that day are less than 6.0 or greater than 10.0. The pH shall not be less than 5 for any period of time.	Revised for preferred language.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Chapter 8 Industrial and Special Waste

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets **[Deleted]**	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.014	806.1.1	806.1.1 Application review. The Commission shall review the application submitted by the Industrial User and may require additional information. Within 90 days of receiving a complete application, the Commission shall make the determination that a Discharge Authorization Permit or a Categorical Zero Discharge Permit may be warranted. The Commission shall issue a permit if it is determined that pretreatment facilities are adequate for efficient treatment of discharged waste and that the discharged waste complies with the discharge limitations of these regulations or **[**with the National Pretreatment Standards, whichever is applicable**]OTHER APPLICABLE PRETREATMENT STANDARDS**.	Revised from "national" to "other." The Commission applies limits from DC Water, Charles County, Categorical, etc.	RSD Staff	None.
CH8.015	806.7.1	806.7.1 Advanced notice. Discharge Authorization Permits and Categorical Zero Discharge Permits may be transferred to a new owner or operator only if the permittee gives at least 30 days advance notice to the Commission, and the Commission approves the Permit transfer. The notice to the Commission shall include a written certification by the new owner or operator which: a. States that the new owner or operator or both have no immediate intent to change the facility's operations and processes. b. **[**Requested effective date of transfer**]IDENTIFIES THE SPECIFIC DATE ON WHICH THE TRANSFER IS TO OCCUR**. c. Acknowledges full responsibility for complying with the existing Discharge Authorization Permit or Categorical Zero Discharge Permit.	Revised to match language in Discharge Application Permit.	RSD Staff	None.
CH8.016	807.1.2	**807.1.2 Inspections.** Inspections of facilities shall be performed by the Code Official**[**, employees of the Commission, or its agents as deemed necessary by the Commission**]**. Inspections may be performed anytime**, INCLUDING WHEN** the facility is in operation, discharging or has a potential to discharge.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.017	New 807.1.3	**807.1.3 MONITORING. MONITORING OR SAMPLING OF INDUSTRIAL USER'S WASTEWATER SHALL BE PERFORMED BY THE CODE OFFICIAL. THE COMMISSION SHALL HAVE THE RIGHT TO SET UP MONITORING OR SAMPLING EQUIPMENT ON THE INDUSTRIAL USER'S PROPERTY OR TO REQUIRE THE INSTALLATION OF SUCH DEVICES AS NECESSARY TO CONDUCT SAMPLING OR METERING OF THE INDUSTRIAL USER'S OPERATIONS OR BOTH.**	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.018	New 807.1.5 (Formerly 807.1.4)	**[807.1.4]807.1.5 Termination of services.** Failure to allow **[**permit inspections on demand**]ENTRY OR FACILITY ACCESS TO CODE OFFICIAL FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS CODE** shall be a violation of these regulations and may prompt the termination of water or sewer service or both.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.

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CH8.019	New 808.1.8	**808.1.8 BASELINE MONITORING REPORTS. WITHIN EITHER ONE HUNDRED EIGHTY (180) DAYS AFTER THE EFFECTIVE DATE OF A CATEGORICAL PRETREATMENT STANDARD, OR THE FINAL ADMINISTRATIVE DECISION ON A CATEGORY DETERMINATION UNDER 40 CFR 403.6(A)(4), WHICHEVER IS LATER, EXISTING CATEGORICAL INDUSTRIAL USERS CURRENTLY DISCHARGING TO OR SCHEDULED TO DISCHARGE TO THE COMMISSION SHALL SUBMIT TO THE COMMISSION A REPORT WHICH CONTAINS THE INFORMATION LISTED IN BELOW. AT LEAST NINETY (90) DAYS BEFORE COMMENCEMENT OF THEIR DISCHARGE, NEW SOURCES, AND SOURCES THAT BECOME CATEGORICAL INDUSTRIAL USERS AFTER THE PROMULGATION OF AN APPLICABLE CATEGORICAL STANDARD, SHALL SUBMIT TO THE COMMISSION A REPORT WHICH CONTAINS THE INFORMATION LISTED BELOW. A NEW SOURCE SHALL ALSO REPORT THE METHOD OF PRETREATMENT IT INTENDS TO USE TO MEET APPLICABLE CATEGORICAL STANDARDS. A NEW SOURCE ALSO SHALL AND GIVE ESTIMATES OF ITS ANTICIPATED FLOW AND QUANTITY OF POLLUTANTS TO BE DISCHARGED.**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.020	New 808.1.8.1	**808.1.8.1 IDENTIFYING INFORMATION. THE INDUSTRIAL USER SHALL SUBMIT THE NAME AND ADDRESS OF THE FACILITY INCLUDING THE NAME OF THE OPERATOR AND OWNERS;**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.021	New 808.1.8.2	**808.1.8.2 PERMITS. THE INDUSTRIAL USER SHALL SUBMIT A LIST OF ANY ENVIRONMENTAL CONTROL PERMITS HELD BY OR FOR THE FACILITY;**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.022	New 808.1.8.3	**808.1.8.3 DESCRIPTION OF OPERATIONS. THE INDUSTRIAL USER SHALL SUBMIT A BRIEF DESCRIPTION OF THE NATURE, AVERAGE RATE OF PRODUCTION, AND STANDARD INDUSTRIAL CLASSIFICATION OF THE OPERATION(S) CARRIED OUT BY SUCH INDUSTRIAL USER. THIS DESCRIPTION SHOULD INCLUDE A SCHEMATIC PROCESS DIAGRAM WHICH INDICATES POINTS OF DISCHARGE TO THE COMMISSION FROM THE REGULATED PROCESSES;**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.

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CH8.023	New 808.1.8.4	**808.1.8.4 FLOW MEASUREMENT. THE INDUSTRIAL USER SHALL SUBMIT INFORMATION SHOWING THE MEASURED AVERAGE DAILY AND MAXIMUM DAILY FLOW, IN GALLONS PER DAY, TO THE COMMISSION FROM EACH OF THE FOLLOWING:** **A. REGULATED PROCESS STREAMS; AND** **B. OTHER STREAMS AS NECESSARY TO ALLOW USE OF THE COMBINED WASTESTREAM FORMULA OF 40 CFR 403.6(E).THE COMMISSION MAY ALLOW FOR VERIFIABLE ESTIMATES OF THESE FLOWS WHERE JUSTIFIED BY COST OR FEASIBILITY CONSIDERATIONS.**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.024	New 808.1.8.5	**808.1.8.5 MEASUREMENT OF POLLUTANTS.** **A. THE INDUSTRIAL USER SHALL IDENTIFY THE PRETREATMENT STANDARDS APPLICABLE TO EACH REGULATED PROCESS;** **B. IN ADDITION, THE INDUSTRIAL USER SHALL SUBMIT THE RESULTS OF SAMPLING AND ANALYSIS IDENTIFYING THE NATURE AND CONCENTRATION (OR MASS, WHERE REQUIRED BY THE STANDARD OR THE COMMISSION) OF REGULATED POLLUTANTS IN THE DISCHARGE FROM EACH REGULATED PROCESS. BOTH DAILY MAXIMUM AND AVERAGE CONCENTRATION (OR MASS, WHERE REQUIRED) SHALL BE REPORTED. THE SAMPLE SHALL BE REPRESENTATIVE OF DAILY OPERATIONS. IN CASES WHERE THE STANDARD REQUIRES COMPLIANCE WITH A BEST MANAGEMENT PRACTICE OR POLLUTION PREVENTION ALTERNATIVE, THE INDUSTRIAL USER SHALL SUBMIT DOCUMENTATION AS REQUIRED BY THE COMMISSION OR THE APPLICABLE STANDARDS TO DETERMINE COMPLIANCE WITH THE STANDARD;** **C. THE INDUSTRIAL USER SHALL TAKE A MINIMUM OF ONE REPRESENTATIVE SAMPLE TO COMPILE THAT DATA NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION;** **D. SAMPLES SHOULD BE TAKEN IMMEDIATELY DOWNSTREAM FROM PRETREATMENT FACILITIES IF SUCH EXIST OR IMMEDIATELY DOWNSTREAM FROM THE REGULATED PROCESS IF NO PRETREATMENT EXISTS. IF OTHER WASTEWATERS ARE MIXED WITH THE REGULATED WASTEWATER PRIOR TO PRETREATMENT THE USER SHOULD MEASURE THE FLOWS AND CONCENTRATIONS NECESSARY TO ALLOW USE OF THE COMBINED WASTESTREAM FORMULA OF 40 CFR 403.6(E) IN ORDER TO EVALUATE COMPLIANCE WITH THE PRETREATMENT STANDARDS. WHERE AN ALTERNATE CONCENTRATION OR MASS LIMIT HAS BEEN CALCULATED IN ACCORDANCE WITH 40 CFR 403.6(E) THIS ADJUSTED LIMIT ALONG WITH SUPPORTING DATA SHALL BE SUBMITTED TO THE COMMISSION;**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.

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CH8.025	New 808.1.8.5	**E. SAMPLING AND ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNIQUES PRESCRIBED IN 40 CFR PART 136 AND AMENDMENTS THERETO. WHERE 40 CFR PART 136 DOES NOT CONTAIN SAMPLING OR ANALYTICAL TECHNIQUES FOR THE POLLUTANT IN QUESTION, OR WHERE THE ADMINISTRATOR DETERMINES THAT THE PART 136 SAMPLING AND ANALYTICAL TECHNIQUES ARE INAPPROPRIATE FOR THE POLLUTANT IN QUESTION, SAMPLING AND ANALYSIS SHALL BE PERFORMED BY USING VALIDATED ANALYTICAL METHODS OR ANY OTHER APPLICABLE SAMPLING AND ANALYTICAL PROCEDURES, INCLUDING PROCEDURES SUGGESTED BY THE COMMISSION OR OTHER PARTIES, APPROVED BY THE ADMINISTRATOR;** **F. THE COMMISSION MAY ALLOW THE SUBMISSION OF A BASELINE REPORT WHICH UTILIZES ONLY HISTORICAL DATA SO LONG AS THE DATA PROVIDES INFORMATION SUFFICIENT TO DETERMINE THE NEED FOR INDUSTRIAL PRETREATMENT MEASURES; AND** **G. THE BASELINE REPORT SHALL INDICATE THE TIME, DATE AND PLACE, OF SAMPLING, AND METHODS OF ANALYSIS, AND SHALL CERTIFY THAT SUCH SAMPLING AND ANALYSIS IS REPRESENTATIVE OF NORMAL WORK CYCLES AND EXPECTED POLLUTANT DISCHARGES TO THE COMMISSION.**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.026	New 808.1.8.6	**808.1.8.6 CERTIFICATION. A STATEMENT, REVIEWED BY AN AUTHORIZED REPRESENTATIVE OF THE INDUSTRIAL USER AND CERTIFIED TO BY A QUALIFIED PROFESSIONAL, INDICATING WHETHER PRETREATMENT STANDARDS ARE BEING MET ON A CONSISTENT BASIS, AND, IF NOT, WHETHER ADDITIONAL OPERATION AND MAINTENANCE AND/OR ADDITIONAL PRETREATMENT IS REQUIRED FOR THE INDUSTRIAL USER TO MEET THE PRETREATMENT STANDARDS AND REQUIREMENTS; AND**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.
CH8.027	New 808.1.8.7	**808.1.8.7 COMPLIANCE SCHEDULE. IF ADDITIONAL PRETREATMENT AND/OR OPERATION AND MAINTENANCE WILL BE REQUIRED TO MEET THE PRETREATMENT STANDARDS; THE SHORTEST SCHEDULE BY WHICH THE INDUSTRIAL USER WILL PROVIDE SUCH ADDITIONAL PRETREATMENT AND/OR OPERATION AND MAINTENANCE. THE COMPLETION DATE IN THIS SCHEDULE SHALL NOT BE LATER THAN THE COMPLIANCE DATE ESTABLISHED FOR THE APPLICABLE PRETREATMENT STANDARD;**	Section added per comments made by EPA. New section is for requirements for baseline monitoring reports, including indentifying information, permits, description of operations, flow measurement, measurement of pollutants, certification, and compliance.	RSD Staff	None.

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CH8.028	New 808.1.9	**808.1.9 REPORTS ON COMPLIANCE WITH CATEGORICAL PRETREATMENT STANDARD DEADLINE. WITHIN 90 DAYS FOLLOWING THE DATE FOR FINAL COMPLIANCE WITH APPLICABLE CATEGORICAL PRETREATMENT STANDARDS OR IN THE CASE OF A NEW SOURCE FOLLOWING COMMENCEMENT OF THE INTRODUCTION OF WASTEWATER INTO THE COMMISSION'S SANITARY SEWER SYSTEM, ANY INDUSTRIAL USER SUBJECT TO PRETREATMENT STANDARDS AND REQUIREMENTS SHALL SUBMIT TO THE COMMISSION A REPORT CONTAINING THE INFORMATION DESCRIBED IN SECTIONS 808.1.8.4, 808.1.8.5, AND 808.1.8.6. FOR INDUSTRIAL USERS SUBJECT TO EQUIVALENT MASS OR CONCENTRATION LIMITS ESTABLISHED BY THE COMMISSION IN ACCORDANCE WITH THE PROCEDURES IN 40 CFR 403.6(C), THIS REPORT SHALL CONTAIN A REASONABLE MEASURE OF THE INDUSTRIAL USER'S LONG TERM PRODUCTION RATE. FOR ALL OTHER INDUSTRIAL USERS SUBJECT TO CATEGORICAL PRETREATMENT STANDARDS EXPRESSED IN TERMS OF ALLOWABLE POLLUTANT DISCHARGE PER UNIT OF PRODUCTION (OR OTHER MEASURE OF OPERATION), THIS REPORT SHALL INCLUDE THE INDUSTRIAL USER'S ACTUAL PRODUCTION DURING THE APPROPRIATE SAMPLING PERIOD.**	Section added per comments made by EPA. New section is for requirements for reports on compliance with categorical pretreatment standard deadline, including compliance schedule, owner's expense, documentation approval, and production rate.	RSD Staff	None.
CH8.029	New 808.1.11	**808.1.11 CATEGORICAL PERIODIC REPORTS. ANY INDUSTRIAL USER SUBJECT TO A CATEGORICAL PRETREATMENT STANDARD AFTER THE COMPLIANCE DATE OF SUCH PRETREATMENT STANDARD, OR, IN THE CASE OF A NEW SOURCE, AFTER COMMENCEMENT OF THE DISCHARGE INTO THE COMMISSION, SHALL SUBMIT TO THE COMMISSION AT LEAST ONCE EVERY SIX MONTHS, UNLESS REQUIRED MORE FREQUENTLY IN THE PRETREATMENT STANDARD OR BY THE COMMISSION OR THE APPROVAL AUTHORITY, A REPORT INDICATING THE NATURE AND CONCENTRATION OF POLLUTANTS IN THE EFFLUENT WHICH ARE LIMITED BY SUCH CATEGORICAL PRETREATMENT STANDARDS. IN ADDITION, THIS REPORT SHALL INCLUDE A RECORD OF MEASURED OR ESTIMATED AVERAGE AND MAXIMUM DAILY FLOWS FOR THE REPORTING PERIOD FOR THE DISCHARGE REPORTED IN 40 CFR 403.12(B)(4) EXCEPT THAT THE COMMISSION MAY REQUIRE MORE DETAILED REPORTING OF FLOWS. IN CASES WHERE THE PRETREATMENT STANDARD REQUIRES COMPLIANCE WITH A BEST MANAGEMENT PRACTICE (OR POLLUTION PREVENTION ALTERNATIVE), THE INDUSTRIAL USER SHALL SUBMIT DOCUMENTATION REQUIRED BY THE COMMISSION OR THE PRETREATMENT STANDARD NECESSARY TO DETERMINE THE COMPLIANCE STATUS OF THE INDUSTRIAL USER.**	Section added per comments made by EPA. New section is for requirements for categorical periodic reports, including the frequency of reports, measure or estimated flows, and best management practice.	RSD Staff	None.

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CH8.030	New 808.1.12 (Formerly 808.1.6)	[808.1.9]**808.1.12** Slug control plan. The Commission may require any Industrial User to develop and implement a slug control plan. However, the Commission shall evaluate whether each Significant Industrial User needs a plan or other action to control slug discharges within 1 year of the regulatory changes or within 1 year of identifying an Industrial User as significant. Significant Industrial Users shall be required to notify the Commission immediately of any changes at their facility affecting potential for a slug discharge. Any Industrial User required to develop and implement a slug control plan shall submit a plan which addresses, at a minimum, the following: a. Description of discharge practices, including non-routine batch discharges. b. Description of stored chemicals. c. Procedures for immediately notifying the Commission of any accidental or slug discharge. Such notification shall also be given for any discharge which would violate any of the prohibited discharges cited in Section 804 of this Code**, WITH PROCEDURES FOR FOLLOW-UP WRITTEN NOTIFICATION WITHIN FIVE DAYS**. d. Procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing pollutants (including inorganic and organic chemicals) and measures and equipment for emergency response. e. The Industrial User shall permanently post a notice in a prominent place advising all employees to notify the Commission in the event of a dangerous discharge for which a notification is required. f. Employers shall advise all appropriate employees who may cause or be adversely affected by such a discharge of the emergency notification procedure.	Revised per comments made by EPA. Added language for 5 day time period for notifying Commission of any accidental or slug discharge.	RSD Staff	None.

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CH8.031	809.1	**809.1 Monitoring point.** [Dischargers of industrial wastes into the Commission's sewerage system shall be required to construct and maintain at their expense a suitable monitoring structure]**INDUSTRIAL USERS SHALL INSTALL EQUIPMENT, AS SPECIFIED BY THE COMMISSION, FOR THE PURPOSE OF MEASURING FLOW OR WASTEWATER CHARACTERISTICS OR ANY OTHER EQUIPMENT NECESSARY TO DETERMINE COMPLIANCE WITH THESE REGULATIONS. THIS INCLUDES THE INSTALLATION OF SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES** downstream from any pretreatment technology, process, storage facility, or other approved works, to facilitate observation, measurement, and sampling of wastes. Monitoring structures shall be constructed in a manner and location approved by the Commission that are accessible at all times for sampling. [Industrial Users shall install equipment, as specified by the Commission, for the purpose of measuring flow or wastewater characteristics or any other equipment necessary to determine compliance with these regulations.]**THE INDUSTRIAL USER'S SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES SHALL BE MAINTAINED AT ALL TIMES IN A SAFE AND PROPER OPERATING CONDITION BY THE INDUSTRIAL USER AT ITS OWN EXPENSE. ALL DEVICES USED TO MEASURE WASTEWATER FLOW AND QUALITY SHALL BE PROPERLY CALIBRATED ACCORDING TO THE MANUFACTURER SPECIFICATIONS TO ENSURE THEIR ACCURACY.** The Commission shall reserve the right to require restricted discharges during peak flows, designate certain wastewater to specific sewers; relocate or consolidate or relocate and consolidate points of discharge; **AND** separate domestic and industrial waste streams.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.032	811.2.3	811.2.3 POTW interference and pass-through. Any other violation of a pretreatment [effluent limit]**STANDARD OR REQUIREMENT AS DEFINED BY 40 CFR 403.3(L)** (daily maximum, [or longer-term]**LONG-TERM** average, **INSTANTANEOUS LIMIT, OR NARRATIVE STANDARD**) that the Commission determines has caused, alone or in combination with other discharges, Interference or Pass-Through (including endangering the health of POTW personnel or the general public).	Revised per comments made by EPA. Added language to reference Code of Federal Regulations and requirements.	RSD Staff	None.
CH8.033	814	SECTION 814 HAULED WASTES **AND WASTE HAULERS**	Revised Section name to include waste haulers.	RSD Staff	None.
CH8.034	814.1	814.1 Applicability. This [subsection]**SECTION** shall apply to [companies, individuals or partnerships hereinafter referred to as Waste Haulers, engaged in the business of transportation or disposal of domestic wastes or grease food service establishments]**WASTE HAULERS AS DEFINED IN SECTION 814.2 AND FSES**. [These subsection]**THIS SECTION** shall also apply to businesses as deemed appropriate by the Commission including [grease interceptor cleaning,] buses[, carpet cleaning] and mobile food service companies.	Relocated langauge defining waste haulers to the defintions section. Removed grease interceptor cleaning and carpet cleaning from scope of section.	RSD Staff	None.

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CH8.035	814.2	**"ACCEPTABLE SERVICE AREA" MEANS THE COMBINED AREA SERVED BY DC WATER AND THE WSSD FROM WHICH THE COMMISSION ACCEPTS DOMESTIC WASTE OR GREASY WASTEWATER, THIS INCLUDES MONTGOMERY COUNTY (MD), PRINCE GEORGE'S COUNTY (MD), AND AREAS OF ARLINGTON COUNTY (VA), FAIRFAX COUNTY (VA), LOUDOUN COUNTY (VA), AND THE DISTRICT OF COLUMBIA.**	Added language to define acceptable service area. Relocated from Section 814.12.	RSD Staff	None.
CH8.036	814.2	**"COMMISSION DISPOSAL SITES" MEANS COMMISSION OWNED SITES DESIGNATED TO BE USED BY PERMITTED WASTE HAULERS TO DISPOSE OF PERMITTED WASTE.**	Added language to define acceptable service area. Relocated from Section 814.13.	RSD Staff	None.
CH8.037	814.2	**"DISCHARGE STRUCTURE" MEANS COMMISSION DESIGNATED DISPOSAL LOCATIONS INCLUDING DEDICATED DISPOSAL PORT AND THE SURROUNDING SLOPED SURFACES.**	Added language to define discharge structure.	RSD Staff	None.
CH8.038	814.2	"Holding tank" means a **STATIONARY** sealed tank that collects wastewater through an inlet, which temporarily stores the effluent for removal and transportation to a treatment facility. Commonly used for households, job trailers, portable restroom trailers and similar uses.	Added language to clarify that holding tanks are stationary.	RSD Staff	None.
CH8.039	814.2	"Non-domestic **[**wastewater**]WASTE**" means the liquid wastes from industrial or commercial processes, trade or business; distinct from domestic wastes**[**, including the contents of grease abatement systems at FSEs**]**. Wastes from wastewater treatment plants or non-domestic sources **INCLUDING NON-DOMESTIC WASTE FROM AUTOMOTIVE/OIL WATER SEPERATORS, INTERCEPTORS, BREWERIES, WINERIES, DISTILLERIES, AND MEADERIES** shall not be discharged at **[**the designated**]COMMISSION** disposal sites unless specifically authorized in writing by the Commission. The contents of grease abatement systems at FSEs are considered domestic wastewater for the purposes of this section.	Revised definition to clarify that non-domestic waste includes waste from oil water interceptors, interceptors, breweries, winieries, distilleries, and meaderies.	RSD Staff	None.
CH8.040	814.2	**[**"Point of discharge" means a discharge of waste at any place in the sewer collection system other than those designated by the Commission shall be prohibited.**]**	Deleted definition, replaced by definitions for commission disposal sites and discharge structure.	RSD Staff	None.
CH8.041	814.2	**"PUMP-OUT" MEANS THE PUMPING AND REMOVAL OF WASTE FROM A SEPTIC TANK OR A GREASE INTERCEPTOR FOR THE PURPOSE OF DISPOSAL.**	Added definition for pump-out.	RSD Staff	None.
CH8.042	814.2	**"PUMP AND RETURN" MEANS THE PUMPING OF WASTE FROM AN INTERCEPTOR AND THEN RETURNING THE EFFLUENT TO THE INTERCEPTOR AFTER SEPARATION OF WASTE AND EFFLUENT IN THE HAULERS TRUCK.**	Added definition for pump and return.	RSD Staff	None.

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CH8.043	814.2	"Transfer tank" means a **STATIONARY** tank, vessel, or container in a centralized location used to temporarily store hauled wastes from various sources or locations before being transferred for disposal or to a treatment facility.	Added language to clarify that transfer tanks are stationary.	RSD Staff	None.
CH8.044	814.2	**"VEHICLE" MEANS A PIECE OF EQUIPMENT THAT HAS A WASTE STORAGE TANK AND IS USED FOR THE TRANSPORTATION OF WASTE, INCLUDING BUSES, RECREATIONAL VEHICLES, TRUCKS WITH AN INTEGRAL WASTE STORAGE TANK OR A WASTE STORAGE TANK TRAILER THAT IS PULLED BY A TRUCK.**	Added language to define vehicle.	RSD Staff	None.
CH8.045	814.2	**"WASTE HAULER" MEANS PERSONS, COMPANIES, OR PARTNERSHIPS ENGAGED IN THE BUSINESS OF TRANSPORTATION OR DISPOSAL OF DOMESTIC WASTES OR GREASE WITHIN THE COMMISSION'S ACCEPTABLE SERVICE AREA.**	Added language to define waste hauler.	RSD Staff	None.
CH8.046	814.2	**"WASTE HAULER PERMIT" MEANS EITHER A WASTE HAULER DISCHARGE PERMIT OR A WASTE HAULER ZERO DISCHARGE PERMIT.**	Added language to define waste hauler permit.	RSD Staff	None.
CH8.047	814.2	**"WASTE HAULER DISCHARGE PERMIT" MEANS A PERMIT ISSUED BY THE COMMISSION AUTHORIZING A SPECIFIC VEHCILE OWNED BY A WASTE HAULER TO DISCHARGE DOMESTIC WASTES OR GREASE FROM FSES AT COMMISSION DISPOSAL SITES.**	Added language to define waste hauler discharge permit.	RSD Staff	None.
CH8.048	814.2	**"WASTE HAULER ZERO DISCHARGE PERMIT" MEANS A PERMIT ISSUED BY THE COMMISSION AUTHORIZING A SPECIFIC VEHCILE OWNED BY A WASTE HAULER TO CLEAN GREASE INTERCEPTORS WITHIN THE COMMISSION SERVICE AREA. A WASTE HAULER ZERO DISCHARGE PERMIT DOES NOT ALLOW THE PERMITTED TRUCK TO DISCHARGE HAULED WASTE AT COMMISSION DISPOSAL SITES.**	Added language to define waste hauler zero discharge permit.	RSD Staff	None.

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CH8.049	New 814.3	**814.3 GENERAL REQUIREMENTS. GENERAL REQUIREMENTS FOR HAULED WASTE AND WASTE HAULERS IS IN SECTIONS 814.3.1 THROUGH 814.3.4.** **814.3.1 ACCEPTABLE SERVICE AREA. ONLY DOMESTIC OR GREASY WASTEWATER ORIGINATING FROM THE ACCEPTABLE SERVICE AREA IS ALLOWED TO BE DISCHARGED AT COMMISSION DISPOSAL SITES.** **814.3.2 WASTE HAULERS. ALL WASTE HAULERS DISCHARGING HAULED WASTE OR CLEANING GREASE INTERCEPTORS WITHIN THE WSSD SHALL MEET THE STANDARDS AND REQUIREMENTS OF THIS CHAPTER. THE COMMISSION RESERVES THE RIGHT TO REQUIRE APPLICABLE REPORTS AND NOTIFICATIONS, SEE SECTION 813.2.** **814.3.3 DISPOSAL SITES. PERMITTED VEHICLES MAY ONLY DISCHARGE WASTE AT COMMISSION DISPOSAL SITES. DISPOSAL AT COMMISSION DISPOSAL SITES IS RESTRICTED TO DOMESTIC WASTES OR GREASE FROM FSES ORIGINATING FROM WITHIN THE ACCEPTABLE SERVICE AREA.** **814.3.4 FATS, OIL, AND GREASE WASTES. WASTEWATER CONTAINING FATS, OIL, AND GREASE SHALL ONLY BE DISPOSED OF AT THE MUDDY BRANCH ROAD DISPOSAL SITE.** **814.3.5 UNACCEPTABLE DISCHARGES. THE COMMISSION RESERVES THE RIGHT TO REFUSE ACCEPTANCE OF ANY LOAD OF HAULED WASTE. WASTE HAULERS ARE REQUIRED TO IMMEDIATELY CEASE UNLOADING OPERATIONS WHEN INSTRUCTED TO DO SO BY THE COMMISSION.**	Added section for general requirements for hauled waste and waste haulers.	RSD Staff	None.

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CH8.050	New 814.4 (Formerly 814.3)	**[814.3]814.4** Prohibited discharges **AND PRACTICES.** All hauled waste disposed at **[**the waste**]COMMISSION** disposal sites **[**designated by the Commission**]** must comply with Section 804 of this Code. **[814.3.1]814.4.1** Prohibited sanitizers. The discharge of portable toilet sanitizers containing formaldehyde or 1,4-dichlorobenzene is prohibited. **814.4.2 ACCEPTABLE SERVICE AREA. DISPOSAL OF WASTEWATER ORIGINATING FROM OUTSIDE THE ACCEPTABLE SERVICE AREA AT COMMISSION DISPOSAL SITES IS PROHIBITED.** **814.4.3 HYDRAULIC FRACTURING WASTES. THE DISCHARGE OF ANY LIQUIDS ASSOCIATED WITH HYDRAULIC FRACTURING PROCESSES IS PROHIBITED.** **814.4.4 ZERO DISCHARGE WASTES. THE DISCHARGE OF WASTES FROM A VEHICLE WITH A WASTE HAULER ZERO DISCHARGE PERMIT AT ANY COMMISSION DISPOSAL SITE IS PROHIBITED.** **814.4.5 TRANSFERRED ZERO DISCHARGE WASTES. THE DISCHARGE OF WASTES TRANSFERRED FROM A VEHICLE WITH A WASTE HAULER ZERO DISCHARGE PERMIT AT ANY COMMISSION DISPOSAL SITE IS PROHIBITED.** **814.4.6 DISCHARGE OF GREASE WASTE. THE DISCHARGE OF WASTEWATER CONTAINING FATS, OILS, AND GREASE AT ANY COMMISSION DISPOSAL SITE EXCEPT FOR MUDDY BRANCH ROAD SHALL BE PROHIBITED.** **[814.3.2]814.4.7 Transfer tanks. The discharge of wastes from transfer tanks used for the purpose of storing wastes collected and combined from [various]MULTIPLE sources is prohibited.** **814.4.8 MIXED WASTES. IN THE CASE OF MIXED LOADS, IF ANY PART OF THE MIXED LOAD CONTAINS WASTE THAT IS RESTRICTED OR PROHIBITED, DISCHARGE AT A COMISSION DISPOSAL SITE IS PROHIBITED.** **814.4.9 POTABLE WATER. TRANSPORTATION OF POTABLE WATER OR CONNECTION TO THE COMMISSION WATER SUPPLY SYSTEM BY A WASTE HAULER VEHICLE IS PROHIBITED.** **814.4.10 PUMP AND RETURN. EXCEPT AS ALLOWED IN SECTION 814.17.2, PUMP AND RETURN IS PROHIBITED.**	Added language for prohibited discharges and practices, including hydrauloc facturing wastes, mixed or combined wastes, multi-use vehicles, and pump and return. Mixed or combined wastes relocated from former section 814.9.	RSD Staff	None.
CH8.051	New 814.4.7 Formerly (814.3.2)	**[**814.3.2**]814.4.7 Transfer [tanks]OF WASTES. [**The discharge of wastes from transfer tanks used for the purpose of storing wastes collected and combined from various sources is prohibited.**]ONLY WASTE HAULER DISCHARGE PERMITTED VEHICLES PERFORMING THE SERVICING OF FSES OR PUMPING SEPTAGE OR PORTABLE TOILET WASTE MAY DISPOSE OF THE WASTE AT A COMMISSION DISPOSAL SITE. HAULED WASTES SHALL NOT BE THE FOLLOWING:** **A. TRANSFERRED FROM ONE VEHICLE TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMISSION.** **B. TRANSFERRED FROM ONE WASTE HAULER COMPANY TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.** **C. TRANSFERRED INTO A TRANSFER OR HOLDING TANK THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.**	**Revised after ELT review, RSD suggested revision.** Revisions to clarify requirements.	RSD Staff	None.

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CH8.052	New 814.5 (Formerly 814.4)	[814.4]**814.5 [Application]WASTE HAULER PERMIT APPLICATIONS. INDIVIDUALS, PARTNERSHIPS, OR CORPORATIONS ENGAGED IN THE CLEANING OF SEPTIC TANKS, HOLDING TANKS OR GREASE INTERCEPTORS WITHIN THE ACCEPTABLE SERVICE AREA SHALL APPLY FOR A WASTE HAULER DISCHARGE PERMIT FOR EACH TRUCK USED IN DISCHARGING WASTES AT COMMISSION DISPOSAL SITES.** **INDIVIDUALS, PARTNERSHIPS, OR CORPORATIONS ENGAGED IN THE CLEANING OF GREASE INTERCEPTORS WITHIN THE COMMISSION JURISDICTION CHOOSE TO DISPOSE OF THIS WASTE AT A WASTE DISPOSAL SITE OTHER THAN A COMMISSION DISPOSAL SITE SHALL APPLY FOR A WASTE HAULER ZERO DISCHARGE PERMIT FOR EACH TRUCK USED IN CLEANING OF GREASE INTERCEPTORS WITHIN THE SANITARY DISTRICT.** [A person engaging in the cleaning of grease interceptors within the Sanitary District shall apply to the Commission for either a Waste Hauler Discharge Permit or a Zero Discharge Permit for each truck engaged in the cleaning of grease interceptors. A person engaging in the cleaning of septic tanks or holding tanks shall apply to the Commission for a Waste Hauler Discharge permit for each truck used in discharging wastes at the waste disposal sites designated by the Commission.]	Revised language for general requirements for waste hauler permit applications. Relocated from Section 814.4	RSD Staff	None.
CH8.053	New 814.6 (Formerly 814.5)	**814.6**[814.5] Waste **HAULER PERMITS**[hauler permits]. **814.6.1**[814.5.1] Waste Hauler Discharge Permit. [Individuals, partnerships, or corporations engaged in the cleaning of septic tanks, holding tanks or grease interceptors shall apply for a Waste Hauler Discharge Permit for each truck used in discharging wastes at the waste disposal sites designated by the Commission.]**THE OWNER OF EACH VEHICLE THAT DISCHARGES WASTE AT A COMMISSION DISPOSAL SITE SHALL APPLY FOR AND POSSESS A WASTE HAULER DISCHARGE PERMIT. A WASTE HAULER DISCHARGE PERMIT AUTHORIZES THE OWNER OF THE PERMITTED VEHICLE TO DISPOSE OF DOMESTIC WASTES OR GREASE FROM FSES AT DESIGNATED COMMISSION DISPOSAL SITES. WITH THE EXCEPTION OF SECTION 814.6.1.1, DISCHARGE OF HAULED WASTE AT A COMMISSION DISPOSAL SITE WITHOUT A WASTE HAULER PERMIT IS PROHIBITED.** [814.5.1.1 Prohibited discharge. With the exception of Section 814.5.1.2, discharge of waste without a waste hauler discharge permit shall be prohibited.] [814.5.1.2]**814.6.1.1** Recreational vehicles. Recreational vehicles shall be exempt from obtaining a [waste hauler discharge permit]**WASTE HAULER DISCHARGE PERMIT**.	Revised language for waste hauler permits, including Waste Hauler Discharge Permits.	RSD Staff	None.

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CH8.054	New 814.6.2 (Formerly 814.5.2)	[814.5.2]**814.6.2 WASTE HAULER Zero Discharge Permit.** [Individuals, partnerships, or corporations engaged in the cleaning of grease interceptors within the Commission service area shall apply for a Zero Discharge Permit for each truck used in cleaning of grease interceptors within the Sanitary District, if they elect to dispose of this waste at a waste disposal site outside of the Commission's jurisdiction. Any waste collected by a vehicle with a Zero Discharge Permit shall be disposed of outside the Commission's jurisdiction and cannot be transferred to a vehicle with a Commission waste hauler discharge permit. A Zero Discharge Permit is not an authorization to discharge at the Commission's disposal sites.]**THE OWNER OF EACH VEHICLE USED TO CLEAN GREASE INTERCEPTORS WITHIN THE SANITARY DISTRICT, BUT NOT DISCHARGE THE WASTE AT A COMMISSION DISPOSAL SITE, SHALL APPLY FOR AND POSSESS A WASTE HAULER ZERO DISCHARGE PERMIT. THE WASTE HAULER ZERO DISCHARGE PERMIT AUTHORIZES THE PERMITTED VEHICLE TO BE USED TO CLEAN GREASE INTERCEPTORS AT FSES LOCATED WITHIN THE WSSD. ANY WASTE COLLECTED BY A PERMITTED VEHICLE MAY NOT BE DISPOSED OF AT A COMMISSION DISPOSAL SITE AND CANNOT BE TRANSFERRED TO ANOTHER VEHICLE AND DISPOSED OF AT A COMMISSION DISPOSAL SITE.**	Revised language for Waste Hauler Zero Discharge Permits.	RSD Staff	None.
CH8.055	New 814.6.3 (Formerly 814.1)	**814.6.3 CLEANING OF GREASE INTERCEPTORS. WITH THE EXCEPTION OF FSES THAT CLEAN THEIR OWN FLOW-BASED GREASE INTERCEPTORS, A GREASE INTERCEPTOR WITHIN THE WSSD SHALL ONLY BE CLEANED BY A WASTE HAULER WITH THE APPROPRIATE WASTE HAULER PERMIT. FSES THAT CLEAN THEIR OWN FLOW-BASED GREASE INTERCEPTORS ARE NOT REQUIRED TO OBTAIN A WASTE HAULER PERMIT AND SHALL DISPOSE OF THE SKIMMED GREASE IN THE TRASH.**	Relocated language from 814.1.	RSD Staff	None.
CH8.056	New 814.6.5	**814.6.5 RECORDKEEPING. WASTE HAULERS SHALL HAVE A COPY OF EACH PERMIT AT THE ADDRESS SHOWN ON THE PERMIT. IN ADDITION, A COPY OF THE PERMIT SHALL BE CARRIED IN THE PERMITTED VEHICLE OR IN THE TRUCK PULLING A PERMITTED VEHICLE THE WASTE HAULER SHALL PRODUCE A COPY OF THE PERMIT UPON REQUEST BY THE COMMISSION.**	Added section with language that waste haulers are required to have a copy of permit in vehicle or truck and that waste hauler is required to produce a copy of permit upon request.	RSD Staff	None.

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CH8.057	New 814.8	**814.8 PERMIT MODIFICATIONS. THE COMMISSION MAY MODIFY A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT FOR GOOD CAUSE INCLUDING THE FOLLOWING:** **A. TO INCORPORATE ANY NEW OR REVISED FEDERAL, STATE, OR LOCAL PRETREATMENT STANDARDS OR REQUIREMENTS.** **B. A CHANGE IN THE POTW THAT REQUIRES EITHER A TEMPORARY OR PERMANENT REDUCTION OR ELIMINATION OF THE AUTHORIZED DISCHARGE.** **C. INFORMATION INDICATING THAT THE PERMITTED DISCHARGE POSES A THREAT TO THE COMMISSION'S TREATMENT PLANTS, COLLECTION SYSTEM, PERSONNEL, OR THE RECEIVING WATERS.** **D. A VIOLATION OF ANY TERMS OR CONDITIONS OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT.** **E. MISREPRESENTATIONS OR FAILURE TO FULLY DISCLOSE ALL RELEVANT FACTS IN THE PERMIT APPLICATION OR IN ANY REQUIRED REPORTING.** **F. TO REFLECT A TRANSFER OF THE OWNER OF A PERMITTED VEHICLE OR OPERATION TO A NEW OWNER OR OPERATOR.**	Added section with language that the Commission may modify waste hauler permits.	RSD Staff	None.
CH8.058	New 814.9	**814.9 PERMIT SUSPENSION, REVOCATION , OR DENIAL. WASTE HAULER DISCHARGE PERMITS OR WASTE HAULER ZERO DISCHARGE PERMITS MAY BE SUSPENDED, REVOCATED , OR DENIED FOR GOOD CAUSE INCLUDING THE FOLLOWING:** **A. PERMIT VIOLATIONS. VIOLATION OF ANY TERMS OR CONDITIONS OR REQUIREMENTS OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT.** **B. FAILURE TO OBTAIN A PERMIT. CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT OR DISCHARGING ANY WASTE TO THE COLLECTION SYSTEM WITHOUT FIRST SECURING THE APPROPRIATE PERMIT.** **C. NON-COMPATIBLE WASTES. INFORMATION INDICATING THAT THE PERMITTED DISCHARGE POSES A THREAT TO THE COLLECTION SYSTEM, TREATMENT SYSTEM, OR COMMISSION PERSONNEL.** **D. FATS, OILS, AND GREASE DISCHARGES. DISCHARGING GREASY WASTEWATER AT NON-DESIGNATED COMMISSION DISPOSAL SITES.** **E. DISCHARGE OF NON-DOMESTIC WASTES. THE UNAUTHORIZED DISCHARGE OF WASTE FROM NON-DOMESTIC SOURCES AT A COMMISSION DISPOSAL SITE.** **F. POINT OF DISCHARGE. DISCHARGING HAULED WASTE AT A LOCATION IN THE SANITARY DISTRICT OTHER THAN A COMMISSON DISPOSAL SITE WITHOUT PRIOR APPROVAL.**	Added section with language for reasons for permit suspension, termination, or denial, including permit violations, failure to obtain permit, non-compatible wastes, FOG discharges, discharge of non-domestic wastes, misrepresentation, failure to provide records, denying access by the Commission, misconduct, and outstanding judgements. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.

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CH8.059	New 814.9	**G. MISREPRESENTATION. OBTAINING A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY MISREPRESENTATION OR FAILURE TO DISCLOSE ALL RELEVANT FACTS.** **H. FAILURE TO PROVIDE RECORDS. FAILURE TO PROVIDE PAPER RECORDS AS DESCRIBED IN SECTION 814.12.** **I. OTHER LICENSES AND PERMITS. FAILURE TO OBTAIN OR MAINTAIN APPROPRIATE CURRENT HAULING LICENSES OR PERMITS FROM FEDERAL, STATE, OR LOCAL AGENCIES.** **J. DENYING ACCESS BY THE COMMISSION. DENYING COMMISSION PERSONNEL ACCESS TO A VEHICLE OR ITS CONTENTS FOR PURPOSES OF COLLECTING A SAMPLE OR OBTAINING INSTRUMENT READINGS (I.E. % LEL, PH, H2S, ETC.) OR A COMBINATION OF BOTH.** **K. MISCONDUCT. USE OF ABUSIVE LANGUAGE, THREATS, MISCHIEVOUS OR CRIMINAL ACTS DIRECTED TOWARD A CODE OFFICIAL, OR COMMISSION PERSONNEL, WHILE THEY ARE PERFORMING THEIR OFFICIAL DUTIES.** **L. OUTSTANDING JUDGMENTS. FAILURE TO RENDER MONETARY PAYMENT TO THE COMMISSION FOR A SETTLEMENT BETWEEN THE COMMISSION AND A WASTE HAULER OR A JUDGMENT OBTAINED BY THE COMMISSION AGAINST A WASTE HAULER.** **THE SUSPENSION, REVOCATION, OR DENIAL OF A PERMIT FOR ONE VEHICLE MAY**	Added section with language for reasons for permit suspension, termination, or denial, including permit violations, failure to obtain permit, non-compatible wastes, FOG discharges, discharge of non-domestic wastes, misrepresentation, failure to provide records, denying access by the Commission, misconduct, and outstanding judgements. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.
CH8.060	New 814.9.1	**814.9.1 SUSPENSION, REVOCATION, OR DENIAL. UPON NOTIFICATION OF SUSPENSION, REVOCATION, OR DENIAL OF A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY THE COMMISSION, THE SPECIFIED VEHICLE OR WASTE HAULER SHALL CEASE ALL CLEANING OF GREASE INTERCEPTORS OF FSES WITHIN THE COMMISSION AND, IF APPLICABLE, SHALL CEASE ALL DISCHARGES OF HAULED WASTE TO COMMISSION WASTE DISPOSAL SITES.**	Added section with language ceasing of operations by waste haulers. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.
CH8.061	New 814.9.2	**814.9.2 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE OR REISSUE A SUSPENDED OR REVOCATED WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT UNTIL THE WASTE HAULER:** **A. COMPLETES A NEW PERMIT APPLICATION AND PAYS THE ASSOCIATED FEES.** **B. REQUESTS IN WRITING THAT THE EXISTING PERMIT BE REINSTATED OR REISSUED.** **C. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **D. COMPLETES ANY CORRECTIVE ACTION FOR ALL VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **E. SUBMITS PAYMENT OF ALL CIVIL CITATIONS ASSOCIATED WITH THE VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **F. UPON REVIEWING ALL OF THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE WASTE HAULER'S REQUEST SHALL BE APPROVED.**	Added section with language with conditions for reinstatement of Waste Hauler Permit. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.

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CH8.062	New 814.10 (Formerly 814.8)	**814.10 PERMIT TRANSFERABILITY. WASTE HAULER DISCHARGE PERMITS SHALL NOT BE TRANSFERABLE WITHOUT APPROVAL FROM THE COMMISSION. WASTE HAULER ZERO DISCHARGE PERMITS ARE NOT TRANSFERABLE.** **814.10.1 ADVANCE NOTICE. WASTE HAULER DISCHARGE PERMITS MAY BE TRANSFERRED TO A NEW OWNER OR OPERATOR ONLY IF THE PERMITTED WASTE HAULER GIVES AT LEAST 30 DAYS ADVANCE NOTICE TO THE COMMISSION, AND THE COMMISSION APPROVES THE PERMIT TRANSFER. THE NEW OWNER OR OPERATOR SHALL SUBMIT THE FOLLOWING TO THE COMMISSION:** **A. DOCUMENTATION INDICATING THE PURCHASE OF THE VEHICLES OR ORIGINAL BUSINESS.** **B. REQUESTED DATE OF THE TRANSFER.** **C. COMPLETED WASTE HAULER PERMIT APPLICATION.** **814.10.2 FAILURE TO PROVIDE ADVANCE NOTICE. FAILURE TO PROVIDE ADVANCE NOTICE OF OWNERSHIP CHANGE SHALL RENDER THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT VOID AS OF THE DATE OF THE BUSINESS OR VEHICLE OWNERSHIP CHANGE.**	Relocated section with language for transfer of Waste Hauler Permit.	RSD Staff	None.
CH8.063	New 814.11	**814.11 WASTE HAULER PERMIT; RE-ISSUANCE. A WASTE HAULER WITH AN EXPIRING WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT SHALL APPLY FOR A NEW PERMIT BY SUBMITTING A COMPLETE WASTE HAULER PERMIT APPLICATION IF THEY WISH TO CONTINUE TO ENGAGE IN THE BUSINESS OF TRANSPORTATION OR DISPOSAL OF DOMESTIC WASTES OR GREASE FROM FSES WITHIN THE COMMISSION'S ACCEPTABLE SERVICE AREA. RENEWAL OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT SHALL BE CONTINGENT ON PAYMENT OF THE PERMIT RENEWAL FEE, AND COMPLIANCE WITH THE TERMS, CONDITIONS AND LIMITATIONS OF THE EXISTING WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT. A PERMIT MAY NOT BE RE-ISSUED TO ANY WASTE HAULER WITH OUTSTANDING JUDGEMENTS.**	Added section with language for re-issueance of expired Waste Hauler Permit.	RSD Staff	None.

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CH8.064	New 814.12	**814.12 SUBMISSION OF REQUIRED INFORMATION. IN ADDITION TO THE SUBMISSION OF INFORMATION TO THE COMMISSION SET FORTH BELOW, WASTE HAULERS ENGAGED IN CLEANING INTERCEPTORS AND GREASE TRAPS SHALL ALSO COMPLY WITH NOTIFICATION REQUIREMENTS IN SECTION 814.12.2.** **814.12.1 DOCUMENTATION. UPON REQUEST OF THE COMMISSION, ANY WASTE HAULER USING A COMMISSION DISPOSAL SITE OR ENGAGED IN CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT SHALL SUBMIT MANIFESTS, INVOICES, REPORTS, QUESTIONNAIRES, NOTICES, ANALYTICAL DATA, OR ANY OTHER INFORMATION NECESSARY TO EVALUATE WASTE DISCHARGE CHARACTERISTICS, ENSURE COMPLIANCE WITH THESE REGULATIONS, AND PROPER WASTE DISPOSAL. THESE DOCUMENTS SHALL BE COMPLETED IN A MANNER APPROVED BY THE COMMISSION AND SUBMITTED IN A TIME FRAME AS DIRECTED BY THE COMMISSION.**	Added section with language for submmission of required information, including manifests, invoices, reports, questionnaires, notices, and analytical data.	RSD Staff	None.
CH8.065	New 814.12 (Formerly 814.7)	[814.7]**814.12.2** [Requests for information.]**MANIFESTS.** The Commission, or its representative, may request information concerning the nature or origin of the contents of any permitted vehicle. This information may be in the form of a manifest. The [permittee]**WASTE HAULER** shall be required to comply with all such requests including information concerning the name, address, date of the waste pick-up, disposal points, volumes, and waste characteristics by completing and signing a Commission-approved manifest. [This information shall be in the possession of the driver at the time of discharge and a copy of the manifest shall be placed in the appropriate receptacle provided by the Commission at the Commission waste disposal site at the time of each discharge]. The Commission may also request additional information related to the use of its designated waste disposal sites. [If the permittee disposes a load of hauled waste from a food service establishment's grease interceptor at a location other than at waste disposal sites designated by the Commission, then the permittee must mail in the Commission-approved manifest within the time frame as specified in the permit conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit.] **A. FOR WASTE DISCHARGED AT A COMMISSION DISPOSAL SITE, THE WASTE HAULER SHALL SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.** **EXCEPTION: A MANIFEST IS NOT REQUIRED TO DISPOSE OF DOMESTIC WASTE FROM PORTABLE TOILETS, BUSES, AND RECREATIONAL VEHICLES AT A COMMISSION DISPOSAL SITE.** **B. WASTE HAULERS OPERATING WITH A WASTE HAULER ZERO DISCHARGE PERMIT ARE REQUIRED TO SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.** **EXCEPTION: A MANIFEST IS NOT REQUIRED FOR THE DISPOSAL OF WASTE FROM INDOOR GREASE INTERCEPTORS THAT ARE LESS THAN 100 GALLONS IN VOLUME AND THE WASTE IS DISPOSED OF AT A LOCATION OTHER THAN A COMMISSION DISPOSAL SITE.**	Revised section to include langauge for electronic reporting system.	RSD Staff	None.

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CH8.066	New 814.12.2 (Formerly 814.7)	[814.7]**814.12.2 [Requests for information.]MANIFESTS.** The Commission, or its representative, may request information concerning the nature or origin of the contents of any permitted vehicle. This information may be in the form of a manifest. The [permittee]**WASTE HAULER** shall [be required to] comply with all such requests including information concerning the name, address, date of the waste pick-up, disposal points, volumes, and waste characteristics by completing and signing a Commission-approved manifest. [This information shall be in the possession of the driver at the time of discharge and a copy of the manifest shall be placed in the appropriate receptacle provided by the Commission at the Commission waste disposal site at the time of each discharge.] The Commission may also request additional information related to the use of its designated waste disposal sites. [If the permittee disposes a load of hauled waste from a food service establishment's grease interceptor at a location other than at waste disposal sites designated by the Commission, then the permittee must mail in the Commission-approved manifest within the time frame as specified in the permit conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit.] **A. FOR WASTE DISCHARGED AT A COMMISSION DISPOSAL SITE, THE WASTE HAULER SHALL SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.** **EXCEPTION: A MANIFEST IS NOT REQUIRED TO DISPOSE OF DOMESTIC WASTE FROM BUSES AND RECREATIONAL VEHICLES AT A COMMISSION DISPOSAL SITE.**	**Revised after ELT review, RSD suggested revision.** Removed portable toilets from manifests. They were not part of previous code. By not adding it now it frees us up to add manifesting next fiscal year in the WH permits. We hope to do add that requirement to better track and account for disposal of portable toilet waste.	RSD Staff	None.
CH8.067	Formerly 814.8	[814.8 Permit transferability. Permits shall not be transferable without approval from the Commission. The permittee shall notify the Commission immediately if their State license plate or registration has changed on any of their permitted vehicles.]	Relocated language to new section 814.10.	RSD Staff	None.
CH8.068	Formerly 814.9	[814.9 Mixed wastes and multi-use vehicles. The Commission shall reserve the right to refuse acceptance of any load. Dischargers may be required to cease unloading operations at any time. Permitted tank trucks may not be used to transport potable water and they shall not be allowed to make any connection to the Commission's water supply system. In the case of combined loads, any part of the load that is restricted or prohibited shall make the entire load unacceptable for discharge.]	Relocated language to new section 814.4.5.	RSD Staff	None.
CH8.069	Formerly 814.11	[814.11 Notifications of spills and clean up. The waste haulers shall notify the Commission immediately, via phone, of all spill occurrences followed by filing, in-writing within 7 days, a report detailing the reason for the spill, the areas impacted, clean-up activities, and whether the spill reached any environmentally sensitive area such as parks, residential, commercial or institutional areas, streams, rivers, lakes, ponds or storm drain. Any corrective actions taken to avoid the occurrences of the spills in the future should also be a part of this reporting. In the case where the spill occurs at a FSE, a copy of this report shall also be provided to the owner of the grease interceptor.]	Section for notifications of spills and clean up has been removed. Requirements for written notification of accidential discharge are in section 813.2.	RSD Staff	None.

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CH8.070	Formerly 814.12	[814.12 Acceptable service area. Only domestic or greasy wastewater originating from the following counties: Montgomery County, Prince George's County, Arlington County (VA), Fairfax County (VA), Loudoun County (VA), and the District of Columbia is allowed to be discharged at disposal sites designated by the Commission.]	Section removed. Language relocated to new definition in Section 814.2.	RSD Staff	None.
CH8.071	Formerly 814.13	[814.13 Disposal sites. Only disposal sites designated by the Commission shall be used for the discharge of waste from a permitted vehicle into the Commission's sewer system.]	Section removed. Language relocated to new definition in Section 814.2.	RSD Staff	None.
CH8.072	Formerly 814.14	[814.14 Permit suspension, revocation, or denial. The Waste Hauler Discharge Permit or Zero Discharge Permit may be suspended, terminated, or denied for good cause including the following: 814.14.1 Non-compatible wastes. Information indicating that the permitted discharge poses a threat to the collection system, treatment system, or Commission personnel. 814.14.2 Permit violations. Violation of any terms or conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit. 814.14.3 Misrepresentation. Obtaining a Waste Hauler Discharge Permit or Zero Discharge Permit by misrepresentation or failure to disclose all relevant facts. 814.14.4 Failure to obtain a permit. Cleaning a grease interceptor or discharging any waste to the collection system without first securing the appropriate permit. 814.14.5 Discharge of non-domestic wastes. The unauthorized discharge of waste from non-domestic sources at a Commission disposal site. 814.14.6 Denying access by the Commission. Denying Commission personnel access to a vehicle or its contents for purposes of collecting a sample or obtaining instrument readings (i.e. % LEL, pH, H2S, etc.) or a combination of both. 814.14.7 Failure to provide records. Failure to provide paper records as described in Section 814.7. 814.14.8 Other licenses and permits. Failure to obtain or maintain appropriate current hauling licenses or permits from Federal, State, or local agencies. 814.14.9 Fats, oils, and grease discharges. Discharge of greasy wastewater at non-designated disposal sites. 814.14.10 Misconduct. Use of abusive language, threats, mischievous or criminal acts directed toward a Code Official, or Commission personnel, while they are performing their official duties. 814.14.11 Outstanding judgments. Failure to render monetary payment to the Commission for a settlement between the Commission and a waste hauler or a judgment obtained by the Commission against a waste hauler.]	Section removed. Language relocated to new Section 814.9.	RSD Staff	None.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.073	New 814.14	**814.14 DISPOSAL REQUIREMENTS.** **814.14.1 HOSES. WASTE HAULERS SHALL CONVEY THE WASTES TO THE BOTTOM OF THE DISCHARGE STRUCTURE AT THE COMMISSION DISPOSAL SITE. THE WASTE SHALL BE CONVEYED BY A HOSE OF SUFFICIENT LENGTH AND HOSE SHALL BE ATTACHED TO THE OUTLET OR DISCHARGE OF THE VEHICLE'S WASTE TANK.** **814.14.2 BUSES. ALL BUSES DISCHARGING AT A COMMISSION DISPOSAL SITE SHALL USE A HOSE OF SUFFICIENT LENGTH OR OTHER DEVICE THAT IS CONNECTED DIRECTLY TO THE WASTE TANK TO ENSURE THAT WASTES ARE CONVEYED TO THE BOTTOM OF THE DISPOSAL STRUCTURE. THE COMMISSION DISPOSAL SITE SHALL NOT BE USED TO DISPOSE OF OTHER WASTES, SUCH AS TOILET PAPER OR TRASH.** **814.14.3 SANITARY CONDITIONS. HAULED WASTE SHALL NOT BE DISCHARGED ONTO THE SURFACE AROUND THE DISCHARGE STRUCTURE AT THE COMMISSION DISPOSAL SITE. THE WASTE HAULER SHALL LEAVE THE COMMISSION DISPOSAL SITE IN AN ACCEPTABLE, SANITARY CONDITION.** **814.14.4 TRASH AND DEBRIS. THE WASTE HAULER SHALL ENSURE THAT NO WASTE MATERIALS, TRASH, OR OTHER DEBRIS IS LEFT AT THE COMMISSION DISPOSAL SITE. THE WASTE HAULER SHALL WASH DOWN THE DISPOSAL AREA AS NEEDED.** **814.14.5 ACCESS TO WATER. THE WATER PROVIDED AT THE COMMISSION DISPOSAL SITE SHALL BE USED ONLY FOR CLEANING SPILLAGE AROUND THE DISPOSAL AREA AND SHALL NOT BE USED FOR FILLING TANKS OR CLEANING VEHICLES.** **814.14.6 ORIGINAL CONDITION. THE WASTE HAULER SHALL RETURN THE COMMISSION DISPOSAL SITE TO ITS ORIGINAL CONDITION.**	Added section for disposal requirements, including hoses, buses, sanitary conditions, trash and debris, access to water, and original condition of disposal site. Language relocated from former Section 814.15.1.	RSD Staff	None.
CH8.074	814.15	814.15 Penalties. In addition to permit action under Section **[**814.14**]814.9**, failure to comply with any permit conditions may result in **[**civil or criminal liability**]ENFORCEMENT ACTIONS** under **ANY** applicable **LOCAL**, State, or Federal law **[**and may be grounds to impose penalties, as outlined in the Commission's Enforcement Response Plan**]OR REGULATION, INCLUDING SECTION 114 OF THIS CODE**.	Revised language for penalties from civil or criminal liability to enforcement actions.	RSD Staff	None.
CH8.075	New 814.15.1	**814.15.1 PROSECUTION. VIOLATIONS OF THESE REGULATIONS MAY BE PROSECUTED UNDER TITLE 29 OF THE PUBLIC UTILITIES ARTICLE AND SUBSEQUENT AMENDMENTS THERETO. EACH DAY OF A VIOLATION SHALL CONSTITUTE A SEPARATE OFFENSE, AND APPLICABLE PENALTIES SHALL BE APPLIED TO EACH OFFENSE.**	Added section for prosecution of violations per Maryland State law.	RSD Staff	None.

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CH8.076	New 814.15.4 (Formerly 814.15.1)	[814.15.1]**814.15.2** Civil citations. Any violation of Section 814 or a condition of any permit issued by the Commission shall be cause for issuance of a State of Maryland civil citation ($250.00-$1000.00). [Such violations may be cause for legal prosecution by the Commission under provisions of this Code. The following violations, amoung others, shall be addressed with a civil citation: a. Discharging without a hose. b. Discharging without a permit. c. Unauthorized transfer of permit. d. Creating unsanitary conditions through spillage of wastes. e. Failure to comply with grease interceptor cleaning procedures. f. Failure to comply with requests for information or incomplete manifests.]	Revised langauge by relocating to Section 814.14.	RSD Staff	None.
CH8.077	814.15.4	**814.15.3 ADMINISTRATIVE ENFORCEMENT. THE COMMISSION MAY ASSESS ADMINISTRATIVE PENALTIES UP TO $1,000 FOR EACH VIOLATION STATED IN AN ADMINISTRATIVE ORDER, NOT TO EXCEED $50,000. A CIVIL CITATION WITH ASSOCIATED FINES AS WELL MAY BE ISSUED FOR VIOLATIONS OF ANY PROVISION OF THIS CODE IN ACCORDANCE WITH THE COMMISSION'S ENFORCEMENT RESPONSE PLAN.**	Similiar to 810.6.	RSD Staff	None.
CH8.078	Formerly 814.15.2	[814.15.2 Permit Revocation. The discharge of any unapproved waste from a non-domestic source at a Commission disposal site shall result in the immediate revocation of all discharge permits held by the permittee.]	Removed section, language relocated to Section 814.9.	RSD Staff	None.
CH8.079	New 814.16	**814.16 LIABILITY FOR EXPENSES.** **814.16.1 REPAIR REIMBURSEMENT. THE WASTE HAULER SHALL REIMBURSE THE COMMISSION FOR THE COST OF ANY WORK OR REPAIR MADE NECESSARY FOR THE NEGLECT OR ACTION OF THE WASTE HAULER RESULTING FROM THE DISCHARGE OF HAULED WASTE.** **814.16.2 ACTIVITY REIMBURSEMENT. THE WASTE HAULER SHALL REIMBURSE THE COMMISSION FOR ALL COSTS ASSOCIATED WITH INVESTIGATIONS, MONITORING, ANALYSIS, OR ENFORCEMENT ACTIONS RESULTING FROM ANY VIOLATION OF THIS CODE.**	Added section to match language found in Section 812.	RSD Staff	None.
CH8.080	New 814.17	**814.17 CLEANING OF GREASE INTERCEPTORS. WASTE HAULERS THAT CLEAN INTERCEPTORS ARE RESPONSIBLE FOR PROVIDING PHOTOGRAPHIC DOCUMENTATION, FOLLOWING CLEANING PROCEDURES, AND NOTIFYING FSE OWNER AND THE COMMISION IN ACCORDANCE WITH SECTIONS 814.17.1 THROUGH 814.17.4.**	Added section for requirements for cleaning grease interceptors.	RSD Staff	None.

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CH8.081	New 814.17.1	**814.17.1 PHOTOGRAPHIC DOCUMENTATION. ANY WASTE HAULER THAT PERFORMS CLEANING GREASE INTERCEPTORS OR GREASE TRAPS SHALL PROVIDE PHOTOGRAPHIC DOCUMENTATION OF THE WORK COMPLETED.** **A. ALL PHOTOGRAPHS SHALL BE MAINTAINED FOR 3 YEARS AND BE MADE AVAILABLE TO THE COMMISSION UPON REQUEST.** **B. ALL PHOTOGRAPHS SHALL BE DATED AND TIME STAMPED AND WITH THE LOCATION ACCURATELY DOCUMENTED.** **C. PHOTOGRAPHS SHALL BE TAKEN OF THE FOLLOWING:** **I. PRIOR TO CLEANING, THE SITE CONDITION AND LOCATION OF THE INTERCEPTOR WITH THE MANHOLE COVERS INSTALLED.** **II. ALL COMPARTMENTS OF THE GREASE INTERCEPTOR AFTER BEING CLEANED AND EMPTY.** **III. DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTORS. EXAMPLES OF DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTORS INCLUDES INTERCEPTORS WITH GREASE AND WASTE CONTENT ABOVE THE INLET OR OUTLET PIPING OF THE INTERCEPTOR, SIGNS OF SURCHARGING, BROKEN DIFFUSER BAFFLES, OR COLLAPSED OR DAMAGED BAFFLE WALLS.** **IV. THE SITE CONDITION AFTER THE COMPLETION OF THE INTERCEPTOR CLEANING WITH MANHOLE OR INTERCEPTOR LIDS REINSTALLED.**	Added section for requirements for cleaning grease interceptors.	RSD Staff	None.
CH8.082	New 814.17.2	**814.17.2 CLEANING PROCEDURES. REQUIRED CLEANING PROCEDURES ARE AS FOLLOWS:** **A. REMOVE ALL MANHOLE COVERS, INTERCEPTOR LIDS, OR ACCESS PANELS TO THE INTERCEPTOR.** **B. CLEANING PROCEDURES SHALL BEGIN FROM THE INLET END OR INLET COMPARTMENT OF THE INTERCEPTOR IN THE FOLLOWING SEQUENCE:** **I. REMOVAL OF THE FLOATING GREASE LAYER.** **II. REMOVAL OF THE GREASE ADHERING TO THE INTERCEPTOR OR GREASE TRAP WALLS WHERE ACCESSIBLE.** **III. REMOVAL OF ALL THE SEDIMENT LAYER. IF NECESSARY, WASTE HAULERS MAY ADD A SMALL AMOUNT OF LIQUID BACK INTO THE INTERCEPTOR TO CREATE A SLURRY TO AID IN THE REMOVAL OF THE SEDIMENT LAYER.** **C. REPEAT THE ABOVE STEPS AS NECESSARY TO ENSURE THAT EACH COMPARTMENT OF THE INTERCEPTOR IS COMPLETELY EMPTY.** **D. A FLEXIBLE HOSE OR A FIXED STAINLESS STEEL OR PVC PIPE MAY BE USED AS LONG AS IT CAN SAFELY MANEUVER IN AND THROUGHOUT THE INTERCEPTOR. THE DIAMETER OF THE HOSE OR PIPE SHOULD BE APPROXIMATELY THE SAME DIAMETER AS THE INTAKE HOSE (SUCTION HOSE TO THE WASTE HAULER VEHICLE).** **E. PUMP AND RETURN IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMISSION.**	Added section for requirements for cleaning grease interceptors.	RSD Staff	None.

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CH8.083	New 814.17.3	**814.17.3 NOTIFICATION REQUIREMENTS TO FSE OWNER. WASTE HAULERS ARE REQUIRED TO NOTIFY THE FSE PERMIT HOLDER AS FOLLOWS:** **A. THE WASTE HAULER SHALL NOTIFY THE FSE OWNER THAT THEIR INTERCEPTOR OR GREASE TRAP REQUIRES POWER WASH CLEANING AT LEAST ANNUALLY OR WHEN THERE IS A BUILD-UP OF SOLIDS OR GREASE ON THE WALLS OR BAFFLES OF THE INTERCEPTOR OR GREASE TRAP WHICH INTERFERES WITH THE PROPER FUNCTION OF THE INTERCEPTOR OR GREASE TRAP.** **B. THE WASTE HAULER SHALL NOTIFY THE PROPERTY OWNER, TENANT, OR FSE OWNER IF AN INTERCEPTOR OR GREASE TRAP IS OVERFLOWING OR IS ABOUT TO OVERFLOW.**	Added section for requirements for notification of FSE owner.	RSD Staff	None.
CH8.084	New 814.17.4	**814.17.4 NOTIFICATION REQUIREMENTS TO THE COMMISSION. WASTE HAULERS ARE REQUIRED TO NOTIFY THE COMMISSION AS FOLLOWS:** **A. IN THE EVENT OF A DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTOR, THE WASTE HAULER SHALL SUBMIT PHOTOGRAPHIC DOCUMENTATION TO THE COMMISSION.** **B. IN THE EVENT OF ANY INTERCEPTOR OVERFLOW CAUSING AN ENVIRONMENTAL OR SANITARY IMPACT, THE WASTE HAULER SHALL IMMEDIATELY DOUCMENT THE OVERFLOW AND NOTIFY THE COMMISSION.**	Added section for requirements for notification of the Commission.	RSD Staff	None.
CH8.085	818.2	818.2 Permit required. All qualifying FSEs [shall obtain or be issued]**ARE REQUIRED TO HAVE** a FSE Wastewater Discharge Permit. [New and existing FSEs may be required to complete a fully signed permit survey to document their Discharge Permit.]**THE PERMIT MAY BE OBTAINED BY OPERATOR OF THE FSE, THE PROPERTY OWNER OR THE PROPERTY OWNER'S AGENT, OR OTHER AS APPROVED BY THE COMMISSION. FOR ONSITE GREASE SYSTEMS, THE PERSON RESPONSIBLE FOR THE GREASE SYSTEM IS REQUIRED TO HAVE AN FSE WASTEWATER DISCHARGE PERMIT. TO DOCUMENT A PERMIT, A SIGNED PERMIT SURVEY MAY BE REQUIRED FOR NEW AND EXISTING FSES.** Failure to return a completed permit survey [can subject]**MAY RESULT IN ENFORCEMENT ACTION TO PERSONS INVOLVED INCLUDING** the [to enforcement actions]**OPERATOR OF THE FSE, THE PROPERTY OWNER OR THE PROPERTY OWNER'S AGENT**. If the Commission deems[the FSE qualifies for] a **FSE WASTEWATER** Discharge Permit **IS REQUIRED**, the [FSE]**PERMIT** survey may also be used as the permit application requiring the Commission account number and a responsible party signature.	Revised section to clarify who is elgible to obtain a FSE Wastewater Discharge Permit. Section also revised language for onsite grease systems.	RSD Staff	None.
CH8.086	818.2.1	818.2.1 Issuance of discharge permit. To ensure the FSE**, OR THE PERSON RESPONSBILE FOR ONSITE GREASE SYSTEM,** is aware of requirements of this Code or other federal, state or Commission deadlines, the Commission reserves the right to issue a FSE Discharge Permit before receiving an FSE's completed permit survey.	Revised section to include language for onsite grease systems.	RSD Staff	None.

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CH8.087	818.2.4	818.2.4 Duration. The FSE Wastewater Discharge Permit shall be [issued for a period of one year with annual renewal]**EFFECTIVE FOR THE DURATION THAT THE FSE OR THE ONSITE GREASE SYSTEM IS IN OPERATION**. This permission shall be conditional on compliance with FSE Discharge Permit requirements and this Code.	Revised section to include language that FSE Wastewater Discharge Permits are effective for duration of operation, not for one year with annual review.	RSD Staff	None.
CH8.088	818.2.8	**818.2.8 SUSPENSION AND REVOCATION OF FSE WASTEWATER DISCHARGE PERMIT. THE COMMISSION MAY REVOKE OR SUSPEND AN FSE DISCHARGE AUTHORIZATION PERMIT FOR GOOD CAUSE INCLUDING THE FOLLOWING:** **A. FAILURE TO NOTIFY THE COMMISSION IN ADVANCE OF SIGNIFICANT CHANGES TO FSE PROCESSES, KITCHEN MODIFICATIONS, OR GREASE INTERCEPTOR CHARACTERISTICS.** **B. MISREPRESENTATION OR FAILURE TO FULLY DISCLOSE ALL RELEVANT FACTS IN THE FSE WASTEWATER DISCHARGE PERMIT APPLICATION.** **C. FALSIFYING CLEANING RECORDS OF INTERCEPTOR REPORTS OR CERTIFICATION STATEMENTS.** **D. TAMPERING WITH INTERCEPTOR.** **E. REFUSING TO ALLOW COMMISSION PERSONNEL TIMELY ACCESS TO THE FACILITY PREMISES AND RECORDS.** **F. FAILURE TO COMPLY WITH FSE FOG WASTEWATER DISCHARGE PERMIT GENERAL CONDITIONS.** **G. FAILURE TO PAY FINES, OR ANNUAL FSE FOG WASTEWATER DISCHARGE FEE.** **H. FAILURE TO MEET COMPLIANCE SCHEDULES .** **I. FAILURE TO PROVIDE ADVANCE NOTICE OF THE TRANSFER OF BUSINESS OWNERSHIP OF A PERMITTED FACILITY.** **J. VIOLATION OF FSE WASTEWATER DISCHARGE PERMIT, INCLUDING GREASE ABATEMENT SYSTEM OPERATIONS AND MAINTENANCE STANDARDS.** **K. FAILURE TO MAINTAIN GREASE ABATEMENT SYSTEM OR CAUSING AN ENVIRONMENTAL CONTAMINATION OR BACK-UP IN THE COMMISSION SEWER SYSTEM.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.
CH8.089	818.2.9	**818.2.9 SUSPENSION OR REVOCATION. UPON NOTIFICATION OF SUSPENSION OR REVOCATION OF A FSE WASTEWATER DISCHARGE PERMIT ISSUED BY THE COMMISSION, THE FSE SHALL CEASE ALL OPERATIONS THAT HAVE THE POTENTIAL TO DISCHARGE GREASE-LADEN WASTEWATER. DISCHARGE OF FOG OR GREASE-LADEN WASTEWATER TO SANITARY SYSTEM WITHOUT APPROVAL OR FSE PERMIT IS PROHIBITED.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.

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CH8.090	818.2.9.1	**818.2.9.1 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE A SUSPENDED OR REVOKED FSE WASTEWATER DISCHARGE PERMIT UNTIL THE FSE USER:** **A. REQUESTS IN WRITING THAT THE EXISTING FSE WASTEWATER DISCHARGE PERMIT BE REINSTATED OR REISSUED.** **B. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING FSE WASTEWATER DISCHARGE PERMIT.** **C. UPON REVIEWING ALL THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE FSE USER'S REQUEST SHALL BE APPROVED.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.
CH8.091	818.2.9	818.2.9 Discharge fee. Issuance and validity of the FSE Wastewater Discharge Permit shall be conditional on payment [by the FSE] of the annual Discharge Fee as determined by the Commission. Failure to pay the Discharge Fee shall render the FSE Wastewater Discharge permit invalid **AND MAY RESULT IN ENFORCEMENT ACTONS INCLUDING NOTICES OF VIOLATION, CIVIL CITATIONS, AND TERMINATION OF SERVICE**.	Revised section to include language for enforcement actions.	RSD Staff	None.
CH8.092	818.3	818.3 Inspections. All FSEs **AND ONSITE GREASE SYSTEMS** are subject to routine inspections as determined by the Commission. (See Section 807).	Revised section to include language for onsite grease systems.	RSD Staff	None.

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Chapter 9 Water Re-Use Systems

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
No revisions to Chapter 9.					

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Summary of Notable Changes with Cost Increases / Decreases

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
IPC.001	New 306.2.4	**306.2.4 TRACER WIRE. FOR PLASTIC SEWER PIPING, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AMERICAN WIRE GAUGE (2.5 MM2) AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.**	The WSSC code already has language regarding tracer wires for plastic sewer piping. IPC langauge will be deleted and existing WSSC Code language will remain.		None.
IPC.002	New 312.4	**312.4 DRAINAGE AND VENT VACUUM TEST. THE PORTION OF THE DRAINAGE AND VENT SYSTEM UNDER TEST SHALL BE EVACUATED OF AIR BY A VACUUM-TYPE PUMP TO ACHIEVE A UNIFORM GAUGE PRESSURE OF NEGATIVE 5 POUNDS PER SQUARE INCH OR A NEGATIVE 10 INCHES OF MERCURY COLUMN (-34 KPA). THIS PRESSURE SHALL BE HELD WITHOUT THE REMOVAL OF ADDITIONAL AIR FOR A PERIOD OF 15 MINUTES. ANY ADJUSTMENTS TO THE TEST PRESSURE REQUIRED BECAUSE OF CHANGES IN AMBIENT TEMPERATURES OR THE SEATING OF GASKETS SHALL BE MADE PRIOR TO THE BEGINNING OF THE TEST PERIOD.**	Vacuum testing is added to IPC for drainage waste and vent systems.		Decrease. Adding additional options for testing may decrease the cost of construction.
IPC.003	504.7	504.7 Required pan. Where a storage tank-type water heater or a hot water storage tank is installed in a location where water leakage from the tank will cause damage, the tank shall be installed in a pan constructed of one of the following: 1. Galvanized steel or aluminum of not less than 0.0236 inch (0.6010 mm) in thickness. 2. Plastic not less than 0.036 inch (0.9 mm) in thickness. 3. Other approved materials. **A PLASTIC PAN INSTALLED BENEATH A GAS-FIRED WATER HEATER SHALL BE CONSTRUCTED OF MATERIAL HAVING A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKED-DEVELOPED INDEX OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723.** **WATER HEATERS INSTALLED IN PANS SHALL COMPLY WITH SECTION 314.2.3.2.** [A plastic pan shall not be installed beneath a gas-fired water heater.]	The 2021 WSSC Code amends this section and prohibits use of plastic pans for gas-fired water heaters. With safety standards for plastic pans now included in IPC, the WSSC Code can be amended to allow plastic pans meeting standard.		Decrease. Allowing plastic pans will decrease costs, plastic pans cost less than metal pans.
IPC.004	New 607.2.1	**607.2.1 COMMERCIAL ENERGY PROVISIONS. IN OCCUPANCIES THAT ARE REQUIRED TO COMPLY WITH THE COMMERCIAL PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING SHALL BE LIMITED IN ACCORDANCE WITH SECTIONS C404.5.1 THROUGH C404.5.2.1 OF THAT CODE.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory).		None. The counties already adopt these requirements. However, being included in plumbing code will require them to also be inspected for compliance by the Commission.

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CH1.028	Table 105.1.2a	Table 105.1.2a Installation or relocation of testable backflow assemblies **[**or non-testable backflow devices**]**[8,16] **16 - SEE SECTION 105.6 FOR REQUIREMENTS FOR LONG FORM PERMIT AND EXCEPTIONS FOR SHORT FORM PERMIT.**	Relocated language to new row of table. Added numbered note #16 for reference to code language.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Requiring Short Form Permits instead of Long Form Permits would decrease costs.
CH1.029	Table 105.1.2a	**INSTALLATION OR RELOCATION OF NON-TESTABLE DEVICE** Long Form (LFP) **ALLOWED** Short Form (SFP) **REQUIRED**[2]	New row in table, relocated from row above. Added language that would require a Short Form Permit for the installation of a non-testable device.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Requiring Short Form Permits instead of Long Form Permits would decrease costs.
CH1.030	Table 105.1.2a	15 - Equivalent **[**is a grease interceptor with the same manufacturer, model, flow rate as original; or a**]MEANS A** Commission approved **[**model**]GREASE INTERCEPTOR** with the same flow rate **OR GREATER**.	Revised language to broaden the definition of equvilant grease interceptor.	RSD Staff	Decrease. The revision gives more options for replacement of grease interceptors, potentially decreasing cost of construction.

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CH1.031	New 105.6 (Formerly 106.6)	[106.6]**105.6** Long Form Permit. A Long Form Permit shall be required for all new plumbing and fuel gas work requiring one or more inspections, including major alterations or additions and design retrofit work; for any plumbing work requiring the establishment of a new WSSC customer account; and for a new **INSTALLATION**, or the relocation of a testable or non-testable backflow preventer. **EXCEPTIONS:** **1. A SHORT FORM PERMIT MAY BE USED FOR THE DIRECT REPLACEMENT OF ALL TESTABLE BACKFLOW PREVENTION ASSEMBLIES IF THE FOLLOWING REQUIREMENTS ARE MET:** **A. THE EXISTING LOCATION AND APPLICATION MEET THE REQUIREMENTS OF THIS CODE.** **B. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE LISTED TO THE SAME STANDARD AS THE EXISTING ASSEMBLY.** **C. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.** **2. A SHORT FORM PERMIT MAY BE USED FOR THE FIRST TIME INSTALLATION OF A NON-TESTABLE DEVICE ON AN EXISTING ROUGH-IN, FOR AN EXISTING FIXTURE, OR REPLACEMENT OF A FIXTURE.**	Exception 1 relocated from former section 106.7. Exceptions 2, 3, and 4 added language to allow Short Form Permits for installation of non-testable devices in specific situations.	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Allowance of Short Form Permit instead of Long Form Permit will decrease costs.
CH1.032	New 105.7 (Formerly 106.7)	[106.7]**105.7** Short Form Permit. A Short Form Permit shall be allowed for the replacement, repair, or alteration of existing plumbing and fuel gas systems, fixtures, or appliances requiring only one inspection. [A Short Form Permit may be used for the direct replacement of all testable backflow prevention assemblies if the following requirements are met: a. The existing location and application meet the requirements of this Code. b. The new testable backflow prevention assembly shall be listed to the same standard as existing. c. The new testable backflow prevention assembly shall be installed per manufacturer's installation instructions.]	Relocated parts a, b, and c to Section 105.6	RSD Staff	Decrease. Short Form Permits cost less than Long Form Permits. Allowance of Short Form Permit instead of Long Form Permit will decrease costs.

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CH3.002	New 302.3.6 (Formerly 302.3.5)	[302.3.5]**302.3.6** IPC Section [312.5]**312.6**, Water supply system test, is hereby AMENDED by ADDING provisions to recognize safe air testing practices for rigid plastic piping systems in winter months, all to read as follows: (IPC as amended) [312.5]**312.6** Water supply system test. Upon completion of a section of or the entire water supply system, the system, or portion completed shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi (344 kPa). This pressure shall be held for at least 15 minutes. The water utilized for tests shall be obtained from a potable source of supply. The required tests shall be performed in accordance with this section and Section [108]**111**. [Subject to Section 105.4.4, testing for plastic piping systems shall follow a two-step process in winter months:] **312.6.1 SUSPENSION OF TESTING IN WINTER. BETWEEN NOVEMBER 1 AND MARCH 31, TESTING FOR PLASTIC PIPING SYSTEMS IS SUSPENDED.** [a. The system shall be air tested with 5 psi (34 kPa)] before wall close-in [by the plumbing contractor using a safe and reliable method, see manufacture's recommendations and requirements. Air tests are prohibited if not approved by the manufacturers of all components and materials in the system being tested, including pipe, fitting, and solvent manufacturers. Plumber shall provide material specifications sheets and installation manuals to plumbing inspector. Do not leave air pressure charged on an unmanned project and no other work may be performed on premises during an air test.] b.] Then, after permanent heat is available and before final inspection, the plumbing contractor shall fill the water supply system with water equal to system working pressure. The water test shall be held for 24 hours without loss.	Removed exception for air testing in winter months and added suspension of testing for plastic piping for winter months.	RSD staff	Decrease. Removal of testing of plastic piping during winter months will reduce cost of construction.

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CH3.005	New 302.5.4	302.5.4 IPC Section 504.7, Required pan, is hereby AMENDED to CLARIFY where water heater safe pans shall and shall not be required, to avoid conflict with subsequent IPC prescriptive language that is not enforceable in a practical manner, all to read as follows: (IPC as amended) 504.7 Required pan. **WHERE A STORAGE TANK-TYPE WATER HEATER OR A HOT WATER STORAGE TANK IS INSTALLED IN A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE, THE TANK SHALL BE INSTALLED IN A PAN CONSTRUCTED OF ONE OF THE FOLLOWING:** **1. GALVANIZED STEEL OR ALUMINUM OF NOT LESS THAN 0.0236 INCH (0.6010 MM) IN THICKNESS.** **2. PLASTIC NOT LESS THAN 0.036 INCH (0.9 MM) IN THICKNESS.** **3. OTHER APPROVED MATERIALS.** **A PLASTIC PAN INSTALLED BENEATH A GAS-FIRED WATER HEATER SHALL BE CONSTRUCTED OF MATERIAL HAVING A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKED-DEVELOPED INDEX OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723.** **WATER HEATERS INSTALLED IN PANS SHALL COMPLY WITH SECTION 314.2.3.2.** **[**Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a minimum thickness of 24 gauge, or other pans approved for such use. This requirement shall apply only to**]** **PANS ARE ONLY REQUIRED** for water heaters located above habitable space or the lowest habitable level. Pans shall not be required in basements or for slab-on-grade constructions, whether finished or unfinished.	IPC added language to allow plastic pans for gas water heaters if the pans meet certain requirements for flame spread and smoked-developed index. Revised langauge to allow plastic drain pans per IPC.	RSD staff	Decrease. Allowing plastic pans will decrease costs, plastic pans cost less than metal pans.

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NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH3.006	New 302.6.9	**302.6.9 IPC SECTION 607.2.1, COMMERCIAL ENERGY PROVISIONS, IS HEREBY DELETED IN ITS ENTIRETY.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). **Revised after ELT review, Plumbing Board suggested revision.** **The Plumbing Board suggsetd not adopting this portion of Code.** This language would require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. It would also require pipe sizes not tradional used in the installation of water piping.	Plumbing Board	None. The commericial energy provisions require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. Not adding this portion of IPC will avoid increase in cost.
CH3.009	New 302.7.5	302.7.5 IPC 708.1, Cleanouts required, is hereby AMENDED by MODIFYING Section 708.1.3 to require all building sewer cleanouts be installed outside, all to read as follows: (IPC as amended) 708.1.3 Building drain and building sewer junction. The junction of the building drain and the building sewer shall be served by a cleanout that is located at the junction. The cleanout piping shall extend from the wye fitting connection to grade, terminating outside of the structure. In un-paved areas, the cleanout shall extend 6 inches (152 mm) above grade; in paved areas, access shall comply with Commission Standard Detail S5.1 or S5.2. **EXCEPTION: UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS THAT ARE REPLACED BY PIPE-BURSTING METHODS ARE NOT REQUIRED TO HAVE A CLEANOUT AT JUNCTION OF BUILDING DRAIN AND SEWER IF THE FOLLOWING CONDITIONS ARE MET:** **1. FOR THE PIPING RESTORED BY PIPE BURSTING, THE MAXIMUM DISTANCE FROM THE INSIDE CLEANOUT TO NEXT DOWNSTREAM CLEANOUT IS 100 FEET.** **2. THE CLEANOUT MEETS ALL OTHER ACCESSIBILTY REQUIREMENTS OF THE CODE.**	Added language to allow exception to requirement for cleanout at junction of building drain and building sewer. Pipe bursting is a trenchless pipe restoration/replacement technic. Requiring a cleanout at junction of building drain and building sewer requires excavation or trenching. The exception allows the cleanout to be installed inside the building to avoid additional excavation.	RSD staff	Decrease. An exception for the requirement of a cleanout at the junction of building sewer and building cleanout will decrease cost. Adding a cleanout at junction would require ddditional excavation and materials.

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CH3.013	302.7.8	302.7.8 IPC Section 714, BACKWATER VALVES, is hereby AMENDED by MODIFYING Section 714.1 to recognize private manholes and by ADDING Section 715.6, to specify marking and labeling requirements for backwater valve access, all to read as follows: (IPC as amended) 714.1 Sewage backflow. Where plumbing fixtures are installed on a floor with a finished floor elevation below the elevation of the manhole cover of the next upstream manhole in a public or private sewer, such fixtures shall be protected by a backwater valve installed in the building drain, or horizontal branch serving such fixtures. Plumbing fixtures installed on a floor with a finished elevation **AT OR** above the elevation of the manhole cover of the next upstream manhole in a public or private sewer shall not discharge through a backwater valve. **IN NEW BUILDINGS WITH NEW MANHOLES AS PART OF SITE UTILITY, REQUIREMENT FOR BACKWATER VALVE SHALL BE DETERMINED BY ELEVATION OF MANHOLE ON SITE UTILITY PLANS.** **EXCEPTION: IN EXISTING BUILDINGS, FIXTURES ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT BE PROHIBITED FROM DISCHARGING THROUGH A BACKWATER VALVE.** 715.6 Marking and labeling. The access cover serving a backwater valve shall be permanently labeled with the following message: “Backwater valve located below this access cover, do not cover with permanent floor finishing material such as carpet or tile.” In addition, a tag shall be affixed at the main water supply valve indicating the use and location of the backwater valve(s).	Added language to clarify that for new construction with new site utility, the requirement for backwater valves is based on the site utility plans. Added exception for existing buildings that allows fixtures above elevation of manhole to be discharged through backwater valve. Without this exception, an existing building with new fixtures could require more piping to connect downstream of existing backwater valve.	RSD staff	Decrease. An exception that allows fixtures in existing buildings that are above the elevation of the manhole cover to discharge through backfwater valve will decrease costs by not requiring additional piping to connect downstream of backwater valve.
CH3.014	New 302.8.3	**302.8.3 IPC 802.3, INSTALLATION, IS HEREBY AMENDED BY ADDING LANGUAGE FOR TRAPS NOT TO BE VENTED, ALL TO READ AS FOLLOWS:** **(IPC AS AMENDED)** **802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. TRAPS FOR INDIRECT WASTE PIPING SHALL NOT BE VENTED.** **EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR SHALL NOT REQUIRE A TRAP.**	Added language for traps on indirect waste piping to not be vented. The purpose of trap in indirect waste piping is to interupt convective air flow. Having a vent would only promote convective air flow.	RSD staff	Decrease. Not requiring a vent will decrease cost.

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CH3.016	302.9.6	302.9.6 IPC Section 918.8, Prohibited installations, is hereby amended by modified to prohibited installations for air admittance valves, all to read as follows: (IPC as amended) 918.8 Prohibited installations. Air admittance valves shall not be installed in nonneutralized special waste systems as described in Chapter 8 of IPC. Air admittance valves shall not be located in spaces utilized as supply or return air plenums. Air admittance valves shall not be used to vent sumps or tanks except where the vent system for the sump or tank has been designed by an engineer. Air admittance valves shall not be installed on outdoor vent terminals for the sole purpose of reducing clearances to gravity air intakes or mechanical air intakes. 918.8.1 Additional prohibited installations. Air admittance valves shall not be used in FOG waste systems, **NON-RESIDENTIAL** suds-laden waste systems, flammable liquid waste systems, pathogenic waste systems, hospitals, healthcare facilities, adult or child care facilities, or similar at-risk occupancies.	Add language that would allow residential suds-laden waste systems to use AAVs. Examples include residential clotheswashers and laundry trays.	RSD staff	Decrease. Allowing AAVs will decrease costs by not requiring additional vent piping.
CH3.019	New 1003.2.1	**1003.2.1 LABELING AND MARKING. GREASE WASTE PIPING SHALL BE LABELED AS FOLLOWS:** **1003.2.1.1 MARKING BURIED GREASE WASTE PIPING. BURIED GREASE WASTE PIPING SHALL BE PAINTED WITH A CONTINOUS STRIPE OF BROWN PAINT. THE PAINT CAN BE APPLIED BY BRUSH, SPRAYED ON, OR AS APPROVED. THE STRIP SHALL BE MINIMUM 1 INCH (25 MM) WIDE AND LOCATED ON THE TOP CENTER OF PIPE. PAINT TYPE SHALL BE PERMANENT. WATER-BASED PAINT OR PAINT TYPICALLY USED FOR TEMPORARY UTILITY MARKING IS PROHIBITED.** **1003.2.1.2 MARKING FOR OTHER THAN BURIED GREASE WASTE PIPING. WITH THE EXCEPTION OF BURIED GREASE WASTE PIPING, GREASE WASTE PIPING THAT IS CONCEALED OR IN A ROOM OTHER THAN GREASE INTERCEPTOR SHALL BE LABELED AS FOLLOWS:** **1003.2.1.2.1 MARKING LOCATIONS. MARKING LOCATIONS SHALL BE AS FOLLOWS:** **A. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM).** **B. THE MARKING SHALL BE AT ALL CHANGES OF DIRECTION.** **C. THE MARKING SHALL BE ON EACH SIDE OF A PENETRATION THROUGH A PARTITION, WALL, FLOOR, OR CEILING.** **D. THE MARKING SHALL NOT CONCEAL ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED MATERIAL STANDARDS.**	Added language that requires labeling for grease piping that is buried, concealed, or in a room other than grease interceptor.	RSD staff	Increase. Requiring labels will increase the cost due to costs of paint or labels and installation. However, labeling could prevent confusion in the future that will save time and avoid mistakes that could be increase costs.

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CH3.020	New 1003.2.1	**1003.2.1.2.2 MARKING COLOR AND SIZE. THE MARKING COLOR AND SIZE SHALL BE AS FOLLOWS:** **A. THE MARKING SHALL BE PERMANENT. THE MARKING SHALL BE AS FOLLOWS:** **I. WRAP-AROUND LABELS** **II. NON-ADHESIVE LABELS WITH BANDS OR TIES** **III. ADHESIVE LABELS** **IV. PAINTED** **V. FACTORY APPLIED TO PIPING** **B. THE MARKING SHALL BE A BROWN FIELD MARKED "GREASE WASTE" IN WHITE LETTERS.** **C. THE LENGTH OF BROWN FIELD AND LETTER HEIGHT SHALL BE PER TABLE 1003.2.1.**	Added language that requires labeling for grease piping that is buried, concealed, or in a room other than grease interceptor.	RSD staff	Increase. Requiring labels will increase the cost due to costs of paint or labels and installation. However, labeling could prevent confusion in the future that will save time and avoid mistakes that could be increase costs.
CH3.021	1003.2.7.2.2	1003.2.7.2.2 Interceptor access. Flow-based grease interceptors shall be located in a visible ready access area and readily accessible for daily maintenance, servicing and inspection by the user and the Commission. The user is responsible for providing the necessary access for inspection at their expense. **1003.2.7.2.2.1 ACCESS. IF A NEW VOLUME-BASED GREASE INTERCEPTOR MUST BE INSTALLED WITH ACCESS HIGHER THAN 3 FEET (914 MM) ABOVE FINISHED FLOOR OR GRADE, THE BUILDING OWNER SHALL INSTALL AN OSHA APPROVED PERMANENT PLATFORM AT THE INTERCEPTOR TO PROVIDE ACCESS FOR WORKERS.** [1003.2.7.2.2.1]**1003.2.7.2.2.2** Failure to provide access. Failure to provide access for inspection, upon request, shall be a code violation.	For flow-based grease interceptors, added height requirements for access.	RSD staff	Increase. Requiring a platform would increase costs.
CH3.028	New 1003.2.8.2.7.4	1003.2.8.2.7.4 Access. If a new volume-based grease interceptor must be installed with access higher than [5]**3** feet (914 mm) above finished floor or grade, the building owner shall install an OSHA approved permanent platform at the interceptor to provide access for workers.	Lowered the maximum height the access for volume-based grease interceptors can be without requiring a platform.	RSD staff	Increase. Could increase the cost of installation by requiring platform for volume-based grease interceptor.

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CH5.004	New 502.3.2 (continued)	**502.3.2 INDIVIDUAL METER ARRANGEMENT. EACH INDIVIDUAL METER, INDIVIDUAL METER IS DEFINED IN CHAPTER 2, IS REQUIRED TO HAVE A BACKFLOW PREVENTER. 502.3.2.1 INDIVIDUAL METER BACKFLOW IN LIEU OF FACILITY CONTAINMENT. BACKFLOW PREVENTERS FOR COMMISSION INDIVIDUAL METERS MAY SERVE AS CONTAINMENT FOR DOMESTIC WATER IF ALL OF THE METERS AND THE ASSOCIATED BACKFLOW PREVENTERS ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SERVICE ENTERS FACILITY OR ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SUPPLY BRANCHES FROM A COMBINATION SERVICE. SEE SECTION 202 FOR DEFINITION OF INDIVIDUAL METER.**	This section has been added to clarify the requirement for a backflow preventer at each individual meter. This section includes language that allows exception for single backflow preventer to serve as building containment where all individual meter backflow preventers are in same room as water service entrance.	RSD Staff	Decrease. Exception for single backflow preventer may decrease cost of labor and materials.

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CH5.007	New 502.5	**502.5 REQUIREMENTS TO RETROFIT EXISTING FACILITIES. WITH THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FACILITIES BUILT BEFORE MAY 1, 2007, AND WITHOUT CONTAINMENT ARE NOT REQUIRED TO HAVE CONTAINMENT. WITH THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FIXTURES AND EQUIPMENT INSTALLED BEFORE MAY 1, 2007, AND WITHOUT ISOLATION ARE NOT REQUIRED TO HAVE ISOLATION.** **502.5.1 HIGH DEGREE OF HAZARD PRESENT. WHERE A HIGH DEGREE OF HAZARD APPLICATION IS PRESENT, THE ADDITION OF CONTAINMENT AND ISOLATION BACKFLOW PREVENTERS IS REQUIRED. WHERE A FACILITY HAS A HIGH HAZARD APPLICATION AND AN EXISTING BACKFLOW PREVENTER IS NOT COMMENSURATE WITH THE DEGREE OF HAZARD, THE BACKFLOW PREVENTER SHALL BE REPLACED WITH A BACKFLOW PREVENTER WITH A HIGH DEGREE OF HAZARD. THESE FACILITIES SHALL BE RECLASSIFIED AS MODERATE OR HIGH HAZARD FACILITIES AND FUTURE INSPECTION FREQUENCY SHALL BE ADJUSTED ACCORDINGLY.** **502.5.2 VOLUNTARY CHANGES TO EXISTING FACILITIES. WHERE ANY OF THE FOLLOWING CONDITIONS PRESENT AS PART OF A VOLUNTARY CHANGE TO AN EXISTING FACILITY, CONTAINMENT AND ISOLATION FOR THE EXISTING FACILITY SHALL MEET THE SAME REQUIREMENTS AS A NEW FACILITY,** **A. REPLACEMENT OR RELINED WATER SERVICE.** **B. CHANGE IN WATER SERVICE CONNECTION SIZE.** **C. REPLACEMENT OR RELINING OF A MINIMUM OF 50 PERCENT OF THE WATER DISTRIBUTION PIPING; OR THE REMODELING OR ADDING OF 25 PERCENT OR MORE TO AN EXISTING PLUMBING SYSTEM.** **D. REPLACEMENT OR CHANGE OF WATER METER.** **E. RESTORATION OF WATER PIPING, UNDER SECTION 302.6.12.** **F. HOMEOWNER PERMIT, UNDER SECTION 106.9.4.4.** **EXCEPTION: WHERE A RESIDENTIAL WATER SERVICE CONNECTION OR WATER SERVICE IS REPAIRED OR REPLACED SOLELY IN RESPONSE TO A MAINTENANCE ISSUE, ADDITION OF BACKFLOW PREVENTION IS NOT REQUIRED.**	This section has been added language that requires retrofit of backflow preventers for voluntary actions including replacement or change of water meter, restoration of water piping, or a homeowner permit. The requirements for retrofit of backflow preventers for replacement or change of meter is new. The requirements for retrofit of backflow preventers is existing and added for reference.	RSD Staff	Increase. Adding language that requires retrofit of backflow preventers if a water meter is voluntarily changed will increase the cost of construction.

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CH5.016	Table 5.2	For ASSE 1020 For Installation Dimensions and Position <u>Mounting Height</u> Minimum of 12 inches above highest outlet[, Maximum 60 inches to floor/grade] <u>Orientation</u> Vertical only <u>Location</u> [Area Shall Be Suitable for Uncontrolled Discharge] [Residential] Outdoors Only	Removed language for height of installation. Requirement relocated to Section 507.2.2. Revised to prohibit the use of ASSE 1020 backflow preventers inside.	RSD Staff	Increase. For indoor installation, may require a different type of backflow preventer, such as ASSE 1013 or ASSE 1056, which may cost more. However, the uncontrolled discharge of an ASSE 1020 could be costly due to potential damage.

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CH5.018	Table 5.2	For ASSE 1024 For Applications Residential Domestic Water Containment Residential Fire Sprinkler System Outside Drinking Fountain **WITH BELOW GRADE DRAIN PORT** Non-carbonated Beverage Dispenser Soft Serve Ice Cream or Yogurt Commercial Ice Maker Dental Operative Unit Water Filter Cartridge Humidifier **THAT DOES NOT HAVE APPROVED INTEGRAL BACKFLOW PROTECTION** Hand Held Shower Tub Spout Below Flood Rim Shower Steamer Food Steamer (less than 1 inch); Wok Range; Proofer; [Eye Wash Station]**EMERGENCY SHOWERS AND EYEWASH STATIONS WITH HOSE** Clothes Dryer with Steamer Dental Model Trimmer Bidet without integral backflow	Added language to clarify that the requirement for ASSE 1024 backflow preventers for outside drinking fountains only applies to those with a below grade drain port. Added language to clarify that the requirement for ASSE 1024 backflow prevnenters for humidifiers only applies to humidifiers that do not have integral backflow prevention that is approved by a Code Official. Added language to clarify that the requirement for ASSE 1024 backflow preventers for emergencey fixtures applies to emergency showers and eyewash stations with a hose.	RSD Staff	Decrease. Only requiring outside drinking fountains with below grade drain ports to have a backflow preventer could decrease cost of construction and maintenance. ASSE 1024 backflow preventers are required to be replaced every 5 years. Only requiring humidifiers that do not have integral backflow prevention to have a backflow preventer could decrease the cost of construction and maintenance. Only requiring emergency eyewash stations with hoses to have a backflow preventer could decrease the cost of construction and maintenance. ASSE 1024 backflow preventers are required to be replaced every 5 years.

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IPC.004	New 607.2.1	**607.2.1 COMMERCIAL ENERGY PROVISIONS. IN OCCUPANCIES THAT ARE REQUIRED TO COMPLY WITH THE COMMERCIAL PROVISIONS OF THE INTERNATIONAL ENERGY CONSERVATION CODE, THE DEVELOPED LENGTH OF HOT OR TEMPERED WATER PIPING SHALL BE LIMITED IN ACCORDANCE WITH SECTIONS C404.5.1 THROUGH C404.5.2.1 OF THAT CODE.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). **Revised after ELT review, Plumbing Board suggested revision.** **The Plumbing Board suggsetd not adopting this portion of Code.** This language would require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. It would also require pipe sizes not tradional used in the installation of water piping.		None. The commericial energy provisions require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. Not adding this portion of IPC will avoid increase in cost.

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CH3.004	New 302.3.9	**302.3.9 IPC SECTION 314.1, FUEL-BURNING APPLIANCES, IS HEREBY AMENDED BY ADDING SECTION 314.1.2 TO ESTABLISH THAT THE LICENSEE IS RESPONSIBLE FOR DETERMING IF CONDENSATE PIPING IS REQUIRED FOR CATEGORY III APPLIANCES, ALL TO READ AS FOLLOWS:** **(IPC AS AMENDED)** **314.1.2 CATEGORY III APPLIANCES. CONDENSATE FORMATION DOES NOT OCCUR IN ALL INSTALLATIONS OF CATEGORY III APPLIANCES. WHERE THE INSTALLATION OF CONDENSATE PIPING IS OPTIONAL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS, THE LICENSEE IS RESPONSIBLE FOR DETERMING IN CONDENSATE PIPING IS REQUIRED.**	Added language to clarify that licensee is responsible for determining if condensate piping is required for category III appliances. Category III appliances may or may not create condensate depending on several factors. If the condensate piping is installed and there is no condensation, the condensate trap will become dry and need to be filled periodically. If condensate is not installed and there is condensation, the condensate could cause damage. **Revised after ELT review, RSD suggested revision.** Removed entire section for exception to require condensate piping for Category III appliances. After some preliminary review, RSD has determined that there is some inconsistency regarding how category is determined for individual appliances. Due to this, it is difficult to determine if any exceptions to not require condensate drainage is required. RSD will follow up with reviewing code, code commentary, reviewing products as well as consulting with stakeholders to determine if there are situations where condensate piping can be eliminated.	RSD staff	None.

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CH3.006	New 302.6.9	**302.6.9 IPC SECTION 607.2.1, COMMERCIAL ENERGY PROVISIONS, IS HEREBY DELETED IN ITS ENTIRETY.**	Prince George's County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). Montgomery County adopts the 2018 IECC without amendment of Section C404 Service Water Heating (Mandatory). **Revised after ELT review, Plumbing Board suggested revision.** **The Plumbing Board suggsetd not adopting this portion of Code.** This language would require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. It would also require pipe sizes not tradional used in the installation of water piping.	Plumbing Board	None. The commericial energy provisions require additional lengths of recirculation piping; additional balancing valves, check valves, and shutoff valves; and larger recirculation valves. Not adding this portion of IPC will avoid increase in cost.
CH3.029	1003.3.4	**1003.3.4 Parking garages.** Parking garages with less than 1/3 of side surface areas open to the outdoors and protected from surface and storm water run-off may have inside floor and trough drains connected to the Commission sanitary sewer through an oil and sand interceptor. Parking garages with 40 or less spaces may be served by a small oil and sand interceptor; those with greater than 40 spaces shall be served by a large interceptor. **1003.3.4.1 TRAPS NOT REQUIRED. IF APPROVED, RECEPTOR DRAINS INSIDE PARKING GARAGES ARE NOT REQUIRED TO HAVE TRAPS IF THEY DISCHARGE TO A SAND AND OIL INTERCEPTOR THAT IS APPROVED TO SERVE AS A TRAP FOR THE SYSTEM OF DRAINS.** **EXCEPTION: RECEPTOR DRAINS LOCATED IN NON-PARKING INTERIOR SPACES OF PARKING GARAGES ARE REQUIRED TO HAVE A TRAP. TRAPS SHALL BE VENTED. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED PER IPC SECTION 1002.4.1. THIS INCLUDES ELEVATOR LOBBIES, STAIRWELLS, MECHANICAL ROOMS, UTILITY ROOMS, AND STORAGE ROOMS.** **1003.3.4.2 INTERCEPTOR AS TRAP. SAND AND OIL INTERCEPTORS THAT SERVE AS A TRAP SHALL CREATE A LIQUID SEAL TO PREVENT EMISSION OF SEWER GAS TO RECEPTORS DRAINS. THE INTERCEPTOR OR OUTLET PIPING SHALL BE VENTED TO PROTECT THE TRAP SEAL FROM SIPHONAGE AND BACK PRESSURE.**	Added language to clarify and codify existing requirements for when sand/oil interceptors that act as traps. **Revised after ELT review, RSD suggested revision.** Revised to clarify that interceptor must be "approved" as trap for receptor drains to not require traps.	RSD staff	None.

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CH5.046	506.9.1	**506.9.1 Automatic residential fire sprinkler systems.** On residential buildings equipped with an NFPA 13D or 13R residential fire sprinkler system **AND WITH AN INSIDE METER**, the tee feeding the residential fire sprinkler system shall be located **[**on the outlet side of**]BEFORE** the meter. Potable water systems shall be protected against backflow from automatic fire sprinkler systems by a minimum of a dual check backflow preventer (ASSE 1024). Chemical additives shall be prohibited in residential fire sprinkler systems. No valve shall be installed on the tee branch supplying the fire sprinkler system.	**Revised after ELT review, RSD suggested revision.** This is a correction. Revised language for tee for fire sprinkler water shall be before meter. Fire sprinkler water is no longer required to be metered.	RSD Staff	None.
CH8.016	807.1.2	**807.1.2 Inspections.** Inspections of facilities shall be performed by the Code Official**[**, employees of the Commission, or its agents as deemed necessary by the Commission**]**. Inspections may be performed anytime**, INCLUDING WHEN** the facility is in operation, discharging or has a potential to discharge.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.017	New 807.1.3	**807.1.3 MONITORING. MONITORING OR SAMPLING OF INDUSTRIAL USER'S WASTEWATER SHALL BE PERFORMED BY THE CODE OFFICIAL. THE COMMISSION SHALL HAVE THE RIGHT TO SET UP MONITORING OR SAMPLING EQUIPMENT ON THE INDUSTRIAL USER'S PROPERTY OR TO REQUIRE THE INSTALLATION OF SUCH DEVICES AS NECESSARY TO CONDUCT SAMPLING OR METERING OF THE INDUSTRIAL USER'S OPERATIONS OR BOTH.**	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.018	New 807.1.5 (Formerly 807.1.4)	**[807.1.4]807.1.5 Termination of services.** Failure to allow **[**permit inspections on demand**]ENTRY OR FACILITY ACCESS TO CODE OFFICIAL FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS CODE** shall be a violation of these regulations and may prompt the termination of water or sewer service or both.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Summary of Notable Changes after ELT Review

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.031	809.1	**809.1 Monitoring point.** [Dischargers of industrial wastes into the Commission's sewerage system shall be required to construct and maintain at their expense a suitable monitoring structure]**INDUSTRIAL USERS SHALL INSTALL EQUIPMENT, AS SPECIFIED BY THE COMMISSION, FOR THE PURPOSE OF MEASURING FLOW OR WASTEWATER CHARACTERISTICS OR ANY OTHER EQUIPMENT NECESSARY TO DETERMINE COMPLIANCE WITH THESE REGULATIONS. THIS INCLUDES THE INSTALLATION OF SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES** downstream from any pretreatment technology, process, storage facility, or other approved works, to facilitate observation, measurement, and sampling of wastes. Monitoring structures shall be constructed in a manner and location approved by the Commission that are accessible at all times for sampling. [Industrial Users shall install equipment, as specified by the Commission, for the purpose of measuring flow or wastewater characteristics or any other equipment necessary to determine compliance with these regulations.]**THE INDUSTRIAL USER'S SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES SHALL BE MAINTAINED AT ALL TIMES IN A SAFE AND PROPER OPERATING CONDITION BY THE INDUSTRIAL USER AT ITS OWN EXPENSE. ALL DEVICES USED TO MEASURE WASTEWATER FLOW AND QUALITY SHALL BE PROPERLY CALIBRATED ACCORDING TO THE MANUFACTURER SPECIFICATIONS TO ENSURE THEIR ACCURACY.** The Commission shall reserve the right to require restricted discharges during peak flows, designate certain wastewater to specific sewers; relocate or consolidate or relocate and consolidate points of discharge; **AND** separate domestic and industrial waste streams.	**Revised after ELT review, RSD suggested revision.** Revisions based on EPA Model Pretreatment Ordinance.	RSD Staff	None.
CH8.051	New 814.4.7 Formerly (814.3.2)	[814.3.2]**814.4.7 Transfer [tanks]OF WASTES.** [The discharge of wastes from transfer tanks used for the purpose of storing wastes collected and combined from various sources is prohibited.]**ONLY WASTE HAULER DISCHARGE PERMITTED VEHICLES PERFORMING THE SERVICING OF FSES OR PUMPING SEPTAGE OR PORTABLE TOILET WASTE MAY DISPOSE OF THE WASTE AT A COMMISSION DISPOSAL SITE. HAULED WASTES SHALL NOT BE THE FOLLOWING:** **A. TRANSFERRED FROM ONE VEHICLE TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMISSION.** **B. TRANSFERRED FROM ONE WASTE HAULER COMPANY TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.** **C. TRANSFERRED INTO A TRANSFER OR HOLDING TANK THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.**	**Revised after ELT review, RSD suggested revision.** Revisions to clarify requirements.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Summary of Notable Changes after ELT Review

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.058	New 814.9	**814.9 PERMIT SUSPENSION, REVOCATION , OR DENIAL. WASTE HAULER DISCHARGE PERMITS OR WASTE HAULER ZERO DISCHARGE PERMITS MAY BE SUSPENDED, REVOCATED , OR DENIED FOR GOOD CAUSE INCLUDING THE FOLLOWING:** **A. PERMIT VIOLATIONS. VIOLATION OF ANY TERMS OR CONDITIONS OR REQUIREMENTS OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT.** **B. FAILURE TO OBTAIN A PERMIT. CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT OR DISCHARGING ANY WASTE TO THE COLLECTION SYSTEM WITHOUT FIRST SECURING THE APPROPRIATE PERMIT.** **C. NON-COMPATIBLE WASTES. INFORMATION INDICATING THAT THE PERMITTED DISCHARGE POSES A THREAT TO THE COLLECTION SYSTEM, TREATMENT SYSTEM, OR COMMISSION PERSONNEL.** **D. FATS, OILS, AND GREASE DISCHARGES. DISCHARGING GREASY WASTEWATER AT NON-DESIGNATED COMMISSION DISPOSAL SITES.** **E. DISCHARGE OF NON-DOMESTIC WASTES. THE UNAUTHORIZED DISCHARGE OF WASTE FROM NON-DOMESTIC SOURCES AT A COMMISSION DISPOSAL SITE.** **F. POINT OF DISCHARGE. DISCHARGING HAULED WASTE AT A LOCATION IN THE SANITARY DISTRICT OTHER THAN A COMMISSON DISPOSAL SITE WITHOUT PRIOR APPROVAL.**	Added section with language for reasons for permit suspension, termination, or denial, including permit violations, failure to obtain permit, non-compatible wastes, FOG discharges, discharge of non-domestic wastes, misrepresentation, failure to provide records, denying access by the Commission, misconduct, and outstanding judgements. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.
CH8.059	New 814.9	**G. MISREPRESENTATION. OBTAINING A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY MISREPRESENTATION OR FAILURE TO DISCLOSE ALL RELEVANT FACTS.** **H. FAILURE TO PROVIDE RECORDS. FAILURE TO PROVIDE PAPER RECORDS AS DESCRIBED IN SECTION 814.12.** **I. OTHER LICENSES AND PERMITS. FAILURE TO OBTAIN OR MAINTAIN APPROPRIATE CURRENT HAULING LICENSES OR PERMITS FROM FEDERAL, STATE, OR LOCAL AGENCIES.** **J. DENYING ACCESS BY THE COMMISSION. DENYING COMMISSION PERSONNEL ACCESS TO A VEHICLE OR ITS CONTENTS FOR PURPOSES OF COLLECTING A SAMPLE OR OBTAINING INSTRUMENT READINGS (I.E. % LEL, PH, H2S, ETC.) OR A COMBINATION OF BOTH.** **K. MISCONDUCT. USE OF ABUSIVE LANGUAGE, THREATS, MISCHIEVOUS OR CRIMINAL ACTS DIRECTED TOWARD A CODE OFFICIAL, OR COMMISSION PERSONNEL, WHILE THEY ARE PERFORMING THEIR OFFICIAL DUTIES.** **L. OUTSTANDING JUDGMENTS. FAILURE TO RENDER MONETARY PAYMENT TO THE COMMISSION FOR A SETTLEMENT BETWEEN THE COMMISSION AND A WASTE HAULER OR A JUDGMENT OBTAINED BY THE COMMISSION AGAINST A WASTE HAULER.** **THE SUSPENSION, REVOCATION, OR DENIAL OF A PERMIT FOR ONE VEHICLE MAY**	Added section with language for reasons for permit suspension, termination, or denial, including permit violations, failure to obtain permit, non-compatible wastes, FOG discharges, discharge of non-domestic wastes, misrepresentation, failure to provide records, denying access by the Commission, misconduct, and outstanding judgements. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Summary of Notable Changes after ELT Review

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.060	New 814.9.1	**814.9.1 SUSPENSION, REVOCATION, OR DENIAL. UPON NOTIFICATION OF SUSPENSION, REVOCATION, OR DENIAL OF A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY THE COMMISSION, THE SPECIFIED VEHICLE OR WASTE HAULER SHALL CEASE ALL CLEANING OF GREASE INTERCEPTORS OF FSES WITHIN THE COMMISSION AND, IF APPLICABLE, SHALL CEASE ALL DISCHARGES OF HAULED WASTE TO COMMISSION WASTE DISPOSAL SITES.**	Added section with language ceasing of operations by waste haulers. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.
CH8.061	New 814.9.2	**814.9.2 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE OR REISSUE A SUSPENDED OR REVOCATED WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT UNTIL THE WASTE HAULER:** **A. COMPLETES A NEW PERMIT APPLICATION AND PAYS THE ASSOCIATED FEES.** **B. REQUESTS IN WRITING THAT THE EXISTING PERMIT BE REINSTATED OR REISSUED.** **C. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **D. COMPLETES ANY CORRECTIVE ACTION FOR ALL VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **E. SUBMITS PAYMENT OF ALL CIVIL CITATIONS ASSOCIATED WITH THE VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.** **F. UPON REVIEWING ALL OF THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE WASTE HAULER'S REQUEST SHALL BE APPROVED.**	Added section with language with conditions for reinstatement of Waste Hauler Permit. **Revised after ELT review, RSD suggested revision.** Revised "termination" to "revocation" for consistent language.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Summary of Notable Changes after ELT Review

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.066	New 814.12.2 (Formerly 814.7)	**[814.7]814.12.2 [Requests for information.]MANIFESTS.** The Commission, or its representative, may request information concerning the nature or origin of the contents of any permitted vehicle. This information may be in the form of a manifest. The [permittee]**WASTE HAULER** shall **[**be required to**]** comply with all such requests including information concerning the name, address, date of the waste pick-up, disposal points, volumes, and waste characteristics by completing and signing a Commission-approved manifest. **[**This information shall be in the possession of the driver at the time of discharge and a copy of the manifest shall be placed in the appropriate receptacle provided by the Commission at the Commission waste disposal site at the time of each discharge.**]** The Commission may also request additional information related to the use of its designated waste disposal sites. **[**If the permittee disposes a load of hauled waste from a food service establishment's grease interceptor at a location other than at waste disposal sites designated by the Commission, then the permittee must mail in the Commission-approved manifest within the time frame as specified in the permit conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit.**]** **A. FOR WASTE DISCHARGED AT A COMMISSION DISPOSAL SITE, THE WASTE HAULER SHALL SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.** **EXCEPTION: A MANIFEST IS NOT REQUIRED TO DISPOSE OF DOMESTIC WASTE FROM BUSES AND RECREATIONAL VEHICLES AT A COMMISSION DISPOSAL SITE.**	**Revised after ELT review, RSD suggested revision.** Removed portable toilets from manifests. They were not part of previous code. By not adding it now it frees us up to add manifesting next fiscal year in the WH permits. We hope to do add that requirement to better track and account for disposal of portable toilet waste.	RSD Staff	None.

SIGNIFICANT PROPOSED CODE REVISIONS

Summary of Notable Changes after ELT Review

NUMBER	CODE SECTION (REVISED/NEW)	CODE LANGUAGE New language is **BOLD UPPERCASE**, Deleted language is in brackets [Deleted]	COMMENT	PROPOSED BY	COST INCREASE/DECREASE
CH8.088	818.2.8	**818.2.8 SUSPENSION AND REVOCATION OF FSE WASTEWATER DISCHARGE PERMIT. THE COMMISSION MAY REVOKE OR SUSPEND AN FSE DISCHARGE AUTHORIZATION PERMIT FOR GOOD CAUSE INCLUDING THE FOLLOWING:** **A. FAILURE TO NOTIFY THE COMMISSION IN ADVANCE OF SIGNIFICANT CHANGES TO FSE PROCESSES, KITCHEN MODIFICATIONS, OR GREASE INTERCEPTOR CHARACTERISTICS.** **B. MISREPRESENTATION OR FAILURE TO FULLY DISCLOSE ALL RELEVANT FACTS IN THE FSE WASTEWATER DISCHARGE PERMIT APPLICATION.** **C. FALSIFYING CLEANING RECORDS OF INTERCEPTOR REPORTS OR CERTIFICATION STATEMENTS.** **D. TAMPERING WITH INTERCEPTOR.** **E. REFUSING TO ALLOW COMMISSION PERSONNEL TIMELY ACCESS TO THE FACILITY PREMISES AND RECORDS.** **F. FAILURE TO COMPLY WITH FSE FOG WASTEWATER DISCHARGE PERMIT GENERAL CONDITIONS.** **G. FAILURE TO PAY FINES, OR ANNUAL FSE FOG WASTEWATER DISCHARGE FEE.** **H. FAILURE TO MEET COMPLIANCE SCHEDULES .** **I. FAILURE TO PROVIDE ADVANCE NOTICE OF THE TRANSFER OF BUSINESS OWNERSHIP OF A PERMITTED FACILITY.** **J. VIOLATION OF FSE WASTEWATER DISCHARGE PERMIT, INCLUDING GREASE ABATEMENT SYSTEM OPERATIONS AND MAINTENANCE STANDARDS.** **K. FAILURE TO MAINTAIN GREASE ABATEMENT SYSTEM, CAUSES AN ENVIRONMENTAL CONTAMINATION, OR BACK-UP IN THE COMMISSION SEWER SYSTEM.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.
CH8.089	818.2.9	**818.2.9 SUSPENSION OR REVOCATION. UPON NOTIFICATION OF SUSPENSION OR REVOCATION OF A FSE WASTEWATER DISCHARGE PERMIT ISSUED BY THE COMMISSION, THE FSE SHALL CEASE ALL OPERATIONS THAT HAVE THE POTENTIAL TO DISCHARGE GREASE-LADEN WASTEWATER. DISCHARGE OF FOG OR GREASE-LADEN WASTEWATER TO SANITARY SYSTEM WITHOUT APPROVAL OR FSE PERMIT IS PROHIBITED.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.
CH8.090	818.2.9.1	**818.2.9.1 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE A SUSPENDED OR REVOKED FSE WASTEWATER DISCHARGE PERMIT UNTIL THE FSE USER:** **A. REQUESTS IN WRITING THAT THE EXISTING FSE WASTEWATER DISCHARGE PERMIT BE REINSTATED OR REISSUED.** **B. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING FSE WASTEWATER DISCHARGE PERMIT.** **C. UPON REVIEWING ALL THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE FSE USER'S REQUEST SHALL BE APPROVED.**	**Revised after ELT review, RSD suggested revision.** Added language for suspension and revocation of FSE Wastewater Discharge Permit, similar to other discharge permits.	RSD Staff	None.

Format of revisions to WSSC Plumbing and Fuel Gas Code

The WSSC Plumbing and Fuel Gas Code was last revised in 2023. The proposed revisions are formatted as follows:

Additions are in all caps, bold, and green, example: **ADDITION**.

Deletions are surrounded by brackets and red, example: **[**deletion**]**.

WASHINGTON SUBURBAN SANITARY COMMISSION

[2021]2024WSSC Plumbing and Fuel Gas Code

Effective Date: [April 1, 2023**]TBD**

CERTIFICATION OF AUTHORITY

The General Counsel certifies that the statutory authority for the adoption of this Code is:

Annotated Code of Maryland:

Maryland Public Utilities Article:
Sections 17-403, 17-404, 17-406, 23-101, 24-101, 24-102, 24-103, 24-104, 24-105, 24-106, 24-201, 25-101, 25-105, 26-102, 26-204, 29-101, 29-102, 29-103, 29-104, 29-105, 29-107

Business Occupations and Professions Article:
Sections 12-305, 12-307

Environment Article:
Sections 9-332

Explanation of Formatting:

To assist users, select notable revisions between this version of the Code and previous version of the Code are indicated with blue colored text. This includes revisions to section numbers and titles.

In addition to blue colored text, select notable technical revisions between this version of the Code and the previous version of the Code are indicated with a vertical line in the outside margin (as shown to the right). This does not include changes to section numbers or titles.

Underlined section numbers are links found in PDF document of Code.

Not all revisions have margin indicators or blue colored text.

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CHAPTER 1 SCOPE AND ADMINISTRATION

SECTION 101 SCOPE AND GENERAL REQUIREMENTS

101.1 Title. These regulations may be cited as the "WSSC Plumbing and Fuel Gas Code," hereinafter referred to as "this Code."

101.2 Adoption of model codes.

101.2.1 International Codes.

101.2.1.1 International Plumbing Code. The [2021]2024 edition of the International Plumbing Code (hereinafter "IPC"), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications thereto set forth in Chapter 3 of this Code.

101.2.1.2 International Residential Code. The Commission does not use the International Residential Code (hereinafter "IRC") to regulate Group R-3 occupancies. Refer to adopted versions of the IPC and IFGC as well as Chapters 3 and 4 of this Code.

101.2.1.3 International Fuel Gas Code (IFGC). The [2021]2024 edition of the International Fuel Gas Code (hereinafter IFGC), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications thereto set forth in Chapter 4 of this Code.

101.2.2 Referenced codes and standards. Other International Code Council volumes referenced in the IPC and the IFGC, and the standards referenced therein (IPC Chapter 15 and IFGC Chapter 8) shall be considered part of the requirements of this Code to the prescribed extent of each such reference. Where the requirements of referenced standards or manufacturer's installation instructions do not conform to minimum provisions of this Code, the provisions of this Code shall apply.

Exception: When enforcement of a Code provision would violate the conditions of the listing of the equipment or appliance, the conditions of the listing and the manufacturer's installation instructions shall apply.

101.2.3 Appendices. Provisions of appendices within the adopted International Code volumes or within other International Code volumes referenced therein shall not apply unless specifically adopted herein.

101.3 Scope. Except as provided in Sections 101.3.2 and 101.3.3 of this Code, the provisions of this Code shall apply to the following:

a. All classes of work usually performed by plumbers, gasfitters, site utility contractors, and sewer and drain cleaners; including the installation, alteration, repair, relocation, replacement, addition to, use or maintenance of plumbing, fuel gas, and site utility systems within the Sanitary District; and

b. Industrial and special wastes, generally on-property within the Sanitary District. This Code shall also regulate sanitary and condensate vacuum collection systems.

101.3.1 Fuel gas systems. This Code shall apply to the installation of natural and liquefied petroleum gas (LP-gas) piping systems, natural and LP-gas utilization equipment and related accessories.

101.3.1.1 Fuel gas piping systems. This Code shall cover piping systems for natural gas with an operating pressure of 125 pounds per square inch gauge (psig) (862 kPa gauge) or less and LP-gas with an operating pressure of 20 psig (140 kPa gauge) or less. Coverage shall extend from the point of delivery to the outlet of the equipment shutoff valves. Piping system requirements shall include design, materials, components, fabrication, assembly, installation, testing, inspection, operation and maintenance.

101.3.1.2 Fuel gas utilization equipment. Requirements for natural gas and LP-gas utilization equipment and related accessories shall include installation, combustion and ventilation air, venting, and connection to piping systems.

101.3.2 Plumbing systems outside of the scope. County and state health and environmental officials shall regulate private sewage disposal systems and private wells and well drilling.

101.3.3 Fuel gas systems outside of the scope. Except as provided in item 101.3.3.1 of this section, this Code shall not apply to items listed in the IFGC Section 101.2.4, "Systems, appliances, and equipment outside the scope."

101.3.3.1 Items not included in the listed exceptions. Item number 13, temporary LP-gas piping and related appliances for buildings under construction or renovation that is not to become part of the permanent piping system, shall be covered by this Code.

101.4 Purpose. The purpose of this Code is to provide minimum requirements and standards for the public safety, health, comfort, or convenience in the construction, operation, maintenance, expansion, relocation, replacement, renovation, and repair of plumbing and fuel gas systems within the Sanitary District. The purpose of this Code is not to create or otherwise establish or designate any particular class or group of persons who will or should be especially protected.

101.5 Severability. If any section, subsection, sentence, clause or phrase of this Code is for any reason held to be unconstitutional or invalid, such holding shall not affect the validity of the remaining portions of this Code.

SECTION 102 APPLICABILITY

102.1 General. The provisions of this Code shall apply to all matters affecting or relating to work on property as set forth in Section 101 or as otherwise specified in law. Where in any specific case, different sections of this Code specify different materials, methods of construction or other requirements, the most restrictive section shall govern as determined by the Code Official.

102.1.1 Supersedes. Not withstanding the provisions set forth in Section 102.2, the latest approved version of this Code shall supersede all previously adopted versions. Where applicable, the provisions of this Code shall also supersede any previously related regulations.

102.2 Existing installations. Plumbing and fuel gas systems lawfully in existence at the time of the adoption of this Code shall be permitted to have their use and maintenance continued if the following requirements are met:

- **a.** The use, maintenance, or repair is in accordance with the original design and requirements existing at the time of installation, and, if no hazard to life, health, property, or to the Commission's systems; is created by such system; and
- **b.** The matter is not specifically governed by Chapter 5, "Cross-Connection Control Backflow Prevention", or Chapter 8, "Industrial and Special Waste", of this Code.

102.3 Maintenance.

102.3.1 General. All plumbing and fuel gas systems, site utility systems, industrial and special waste systems, materials and appurtenances, both existing and new, and all parts thereof, shall be maintained in proper operating condition and in a safe and sanitary condition in accordance with the original design and requirements. All devices or safeguards required by this Code shall be maintained in compliance with the Code edition under which they were installed. The property owner, the owner's designated agent, occupant or proprietor or any of these shall be responsible for maintenance of work or systems regulated by this Code on property. To determine compliance with this provision, the Code Official shall have the authority to require any system to be inspected.

102.3.2 Commission maintenance. The Commission shall maintain all Commission water and sewer mains, service connections, water meters, and appurtenances.

102.3.2.1 Right of access. In the discharge of its duties, the Commission and its duly authorized agents shall have the right of access to customer's premises, at reasonable hours, for the purpose of inspecting the customer's sewer connections, reading meters, examining fixtures and pipes, observing the manner of using water, and for any other purpose which is proper and necessary in the conduct of the Commission's business. This includes operation of fire hydrants and other water outlets and access to and through sewer manholes and cleanouts.

102.3.3 Building water and sewer services. Building water and sewer services shall be maintained by the property owner from the building to the service connection located at the property line, edge of public right-of-way, or edge of easement and right-of-way granted to the Commission, whichever is closer to the building.

102.3.4 Commission-ordered repairs. When the Code Official directs repairs to plumbing or fuel gas systems, repair efforts shall be completed within the time specified in a written notification. Failure to comply with written notification may result in further notice of violation and additional penalties. The Commission may enforce repairs by injunction.

102.3.5 Accessibility to Commission structures. Outside water meters, water meter settings and vaults, valve and curb boxes, property-line cleanouts, and similar Commission structures shall be readily accessible to Commission personnel. A person shall not block access to or deny access by Commission personnel to any Commission structures or to an inside Commission water meter.

102.3.6 Sewer stoppages.

102.3.6.1 Property owner's responsibility. The property owner shall employ, at the property owner's sole expense, a WSSC-Licensed Master Plumber or a WSSC-Licensed Sewer and Drain Cleaner to clear the stoppage, from the building to the Commission's sewer main as set forth in Section 102.3.6.2. If the stoppage was caused by a defective building sewer, or by a defective connection at the joint connecting the private sewer to the Commission service connection, the property owner shall be responsible for hiring a WSSC-Licensed Master Plumber to correct the problem at the property owner's expense.

102.3.6.2 Responsibility of Master Plumber or Sewer and Drain Cleaner. The following requirements shall be the responsibility of the WSSC-Licensed Master Plumber or the WSSC-Licensed Sewer and Drain Cleaner when attempting to clear a stoppage in a building sewer. Throughout Section 102.3.6.2 the references to a WSSC-Licensed Sewer and Drain cleaner shall apply to both the WSSC-Licensed Master Plumber and the WSSC-Licensed Sewer and Drain Cleaner.

102.3.6.2.1 Equipment. Sewer and drain cleaning equipment shall be adequate and in proper working order to satisfactorily complete the work.

102.3.6.2.2 System entry. Sewer and drain cleaning equipment shall be introduced into the drainage system through an opening that is not served or protected by a plumbing trap.

102.3.6.2.2.1 Property line cleanout. Where a Commission property line cleanout exists, the WSSC-licensed Sewer and Drain Cleaner shall first attempt to locate, open, and determine through visual means if the Commission service connection is stopped up. If confirmed, the WSSC-Licensed Sewer and Drain cleaner shall notify the property owner and the Commission's Emergency Call Center of the findings. The Emergency Call Center will dispatch a Commission crew or a Commission authorized contractor. If the visual inspection of the property line cleanout does not indicate a stoppage, the WSSC-Licensed Sewer and Drain Cleaner shall access the sewer through the most favorable cleanout or access point located on-property.

102.3.6.2.3 Video inspection. Where video technology is utilized and an off-property issue is evident, the Commission shall be notified under Section 102.3.6.2.5 and a copy of the video recording shall be retained and forwarded to the Commission in conjunction with the required notification per Section 102.3.6.2.5.

102.3.6.2.4 Extent of cleaning operation, soft stoppages. In the case of a soft stoppage and an intact service connection, the WSSC-Licensed Sewer and Drain Cleaner shall operate the cleaning equipment until the cleaning head has extended into the Commission's sewer main, and the soft stoppage has been completely cleared. The WSSC-Licensed Sewer and Drain Cleaner shall notify the Commission under Section 102.3.6.2.5.

102.3.6.2.5 Commission notification. If an obstruction causing a stoppage is located in the Commission's service connection, the WSSC-Licensed Sewer and Drain Cleaner shall notify the Commission's Emergency Call Center by telephone, fax, or electronically within 72-hours. If the stoppage was not cleared the WSSC-Licensed Sewer and Drain Cleaner shall notify the Commission by telephone immediately. The WSSC-Licensed Sewer and Drain Cleaner shall also inform the Commission of what the WSSC-Licensed Sewer and Drain Cleaner believes caused the obstruction e.g., a soft stoppage, broken or misaligned piping, roots, grease, debris, or other cause.

102.3.6.2.6 Equipment problems. If the sewer and drain cleaning equipment becomes lodged in any portion of the sewer system, the WSSC-Licensed Sewer and Drain Cleaner shall retrieve the equipment. Under no circumstances shall the project site be abandoned until the sewer and drain cleaning equipment has been removed; if it cannot be removed the Commission shall be notified immediately.

If the service connection is not defective, the WSSC-Licensed Sewer and Drain Cleaner shall reimburse the Commission for its expenses in retrieving the sewer and drain cleaning equipment. If the service connection is defective, and the defect caused the sewer and drain cleaning equipment to become lodged, the WSSC-Licensed Sewer and Drain Cleaner shall not be required to reimburse the Commission for its expenses in retrieving the equipment.

102.3.6.3 Commission's responsibility. The Commission shall ascertain if the Commission's sewer main is clear. Stoppages in Commission sewer mains shall be cleared or otherwise corrected by the Commission. If the stoppage was reported by the WSSC-Licensed Sewer and Drain Cleaner as originating in the service connection, the Commission shall initiate the following actions:

102.3.6.3.1 Follow up. If the condition reoccurs, the Commission shall follow up to determine both the condition and the integrity of the service connection.

102.3.6.3.2 Defective connection. If the WSSC-Licensed Sewer and Drain Cleaner could not relieve a hard or soft stoppage in a defective service connection, the stoppage shall be relieved, or the condition corrected by the Commission, without backcharge to the WSSC-Licensed Sewer and Drain Cleaner.

102.3.6.3.3 Claim. If the Commission determines that the stoppage was caused by a defective service connection, the Commission shall instruct the property owner to submit a claim to the Commission for the cost of the WSSC-Licensed Sewer and Drain Cleaner's initial activity. The property owner may be reimbursed for such costs at the prevailing usual and customary charges for such work.

102.3.7 Enforcement related to off-property matters. The enforcement of matters that pertain to Sections 102.3.6.1 and 102.3.6.2 and relate to all off-property and right-of-way matters, such as sewer lateral sections under Commission ownership and responsibility, shall be under the authority of the applicable Commission Utility Services Division and not under the authority of the Regulatory Services Division.

102.3.8 Water leaks. The Commission shall investigate and determine responsibility for leaks on water services and appurtenances. If it is found that the leak is not the Commission's responsibility, the property owner shall be directed to have necessary repairs performed by a WSSC-Licensed Master Plumber at their own expense.

102.3.9 Sewer leaks and defects. The Commission shall investigate and determine responsibility for leaks and defects on sewer services and appurtenances. If it is found that the leak or defect is not the Commission's responsibility, the property owner shall be directed to have necessary repairs performed by a WSSC-Licensed Master Plumber at their own expense.

102.3.10 Maintenance and tagging of backflow preventers. See Section 508.3.1, "Maintenance, testing, and tagging of backflow preventers".

102.3.11 Alternative pipe restoration methods. See Sections [302.6.12]**302.6.13**, 302.7.9, and 302.7.10.

102.4 Additions, alterations or repairs. Additions, alterations, renovations or repairs to any plumbing or fuel gas system shall conform to requirements set forth in this Code for a new system without requiring the existing plumbing or fuel gas system to comply with all the requirements of this Code. Additions, alterations or repairs shall not cause an existing system to become unsafe, unsanitary or overloaded.

Minor additions, alterations, renovations and repairs to existing plumbing and fuel gas systems shall meet the provisions for new construction, unless such work is done in the same manner and arrangement as was in the existing system and is not hazardous and is approved.

102.5 Change in occupancy. It is unlawful to make any change in the occupancy of any structure or property that will subject the structure or property to any special provision of this Code without approval of the Code Official. The Code Official shall certify that structure meets the intent of the provisions of law governing building construction for the proposed new occupancy and that change of occupancy does not result in any hazard to the public health, safety or welfare.

102.6 Historic buildings. The provisions of this Code that relates to the construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures are not mandatory for existing buildings or structures identified and classified by the state or a local jurisdiction as historic buildings when the buildings or structures are judged by the Code Official to be safe and not contrary to the public interests of health, safety and welfare regarding any proposed construction, alteration, repair, enlargement, restoration, relocation or moving of buildings or structures.

102.7 Moved buildings. Except as provided in Section 102.2, plumbing and fuel gas systems that are a part of buildings or structures moved into or within the jurisdiction shall comply with the provisions of this Code for new installations.

102.8 Property and buildings owned by the Federal Government. Property and buildings owned by the Federal Government that are within the outer boundaries of the Sanitary District shall not require permits or inspections.

102.8.1 Leased property. Properties and buildings where the Federal Government is the lessee and not the owner shall require permits and inspections according to this Code.

102.8.2 Voluntary request for plan review. When work is to be performed at property or buildings owned by the Federal Government, construction documents may be submitted to the Commission for plan review.

102.8.3 Voluntary request for permits and inspections. The Federal Government may apply for a permit and obtain inspections from the Commission. When the Federal Government owns the property where the plumbing or gasfitting work is to be performed, and the work is to be performed by employees of the Federal Government, the Federal Government shall comply with Section [118.5]**117.5** of this Code. When the Federal Government owns the property where the plumbing or gasfitting work is to be performed, and the work is to be performed by a contractor of the Federal Government, the contractor shall be licensed by the Commission.

102.8.4 Regulatory compliance. With the exception of Section 102.8.4.1, when a property or building owned by the Federal Government has a service connection to a Commission water or sewer main, the Federal Government shall meet the applicable requirements of the Commission's pretreatment program, Chapter 8 of this Code, "Industrial and Special Waste", the Commission's Cross-Connection Control Program, and Chapter 5 of this Code, "Cross-Connection Control Backflow Prevention".

102.8.4.1 Exception. Where practical difficulties prevent the Federal Government from strictly complying with Section 102.8.4, the Commission may grant modifications to the Federal Government, provided the modifications shall conform to the intent and purpose of the Commission's pretreatment program, Chapter 8 of this Code, "Industrial and Special Waste", the Commission's Cross-Connection Control Program, and Chapter 5 of this Code, "Cross-Connection Control Backflow Prevention". The details of any modification shall be recorded in a memorandum of understanding between the Commission and the Federal Government.

102.8.4.2 Cross-connection control. The Commission shall issue a special license to each federal property for the sole purpose of submitting and tracking Backflow Prevention Assembly Test Reports. No other permit or inspection activities will be allowed under this license. See Chapter 5, "Cross-Connection Control Backflow Prevention", for requirements.

102.8.3 Federal property application requirements. Federal property improvement projects shall apply for hydraulic planning analysis. Application is required for meters, service connections, and Commission system extensions. Application, site utility plans, and plumbing plans are required for the Commission to determine applicable system development charges. In all cases, the Federal Government is responsible for all fees and charges associated with these Commission business functions.

102.9 Changes to this Code. Changes to this Code shall apply to permits issued after the effective date of the approved change by the Commission, or to work initiated after the effective date if no permit is required for the work. Changes to this Code made in the interest of public health, safety or welfare may apply retroactively if specified by the Commission at the time of adoption.

102.10 Requirements not covered by this Code. Any requirements necessary for the strength, stability or proper operation of an existing or proposed plumbing or fuel gas system, or for the public safety, health and general welfare, not specifically covered by this Code shall be determined by the Code Official.

102.11 Application of references. Reference to chapter section numbers, or to provisions not specifically identified by number, shall be construed to refer to such chapter, section or provision of this Code or adopted codes.

SECTION 103 COMMISSION FUNCTIONS

103.1 General. The Commission is authorized by the Public Utilities Article of the Annotated Code of Maryland to adopt, administer and enforce regulations for the construction and installation of plumbing and fuel gas systems. The unit within the Commission created to carry out this function shall be known as the Regulatory Services Division. All Commission employees charged with enforcement of this Code shall be known individually and collectively as Code Officials. The Commission shall designate a person who shall be known as the Chief Code Official to have administrative authority over the activities of a Code Official.

103.2 Code Officials. Code Officials shall be an individual charged by the Commission with the administration and enforcement of this Code.

103.3 Qualifications for inspection staff. **[**[Code Officials directly associated with inspections, including interpretation and enforcement of the Code on a technical level, administration, and document review shall as a minimum, be qualified as a WSSC-Licensed Master Plumber and WSSC-Licensed Master Gasfitter.]**THE COMMISSION MAY EMPLOY AN INDIVIDUAL AS A PLUMBING AND GASFITTING INSPECTOR ONLY IF THE INDIVIDUAL HOLDS A CURRENT MASTER PLUMBER AND GASFITTER LICENSE ISSUED BY THE COMMISSION OR A MASTER PLUMBER/GASFITTER LICENSE FROM AN ELIGIBLE RECIPROCAL STATE.**

SECTION 104 DUTIES AND POWERS OF THE COMMISSION

104.1 General. The Commission and its Code Officials shall have the authority to render interpretations of this Code.

104.1.1 Guide to Code Consistency. The Commission may create guidelines in order to clarify and improve the consistency of the application of its provisions. Any guidelines are to be used in conjunction with the Code and not as a substitute for Code. The Code Official alone possesses the authority and responsibility for interpreting the Code.

104.2 DETERMINATION OF COMPLIANCE. THE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO DETERMINE COMPLIANCE WITH THIS CODE AND TO RENDER INTERPRETATIONS OF THIS CODE TO CLARIFY THE APPLICATION OF ITS PROVISIONS. SUCH INTERPRETATIONS:

1. **SHALL BE IN COMPLIANCE WITH THE INTENT AND PURPOSE OF THIS CODE.**
2. **SHALL NOT HAVE THE EFFECT OF WAIVING REQUIREMENTS SPECIALLY PROVIDED FOR IN THIS CODE.**

104.2.1 LISTED COMPLIANCE. WHERE THIS CODE OR A REFERENCED STANDARD REQUIRES EQUIPMENT, MATERIALS, PRODUCTS OR SERVICES TO BE LISTED AND A LISTING STANDARD IS SPECIFIED, THE LISTING SHALL BE BASED ON THE SPECIFIED STANDARD. WHERE A LISTING STANDARD IS NOT SPECIFIED, THE LISTING SHALL BE BASED ON AN APPROVED LISTING CRITERIA. LISTINGS SHALL BE GERMANE TO THE PROVISION REQUIRING THE LISTING. INSTALLATION SHALL BE IN ACCORDANCE WITH THE LISTING AND THE MANUFACTURER'S INSTRUCTIONS, AND WHERE REQUIRED TO VERIFY COMPLIANCE, THE LISTING STANDARD AND MANUFACTURER'S INSTRUCTIONS SHALL BE MADE AVAILABLE TO THE CODE OFFICIAL.

104.2.2 TECHNICAL ASSISTANCE. TO DETERMINE COMPLIANCE WITH THIS CODE, THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE THE OWNER OR OWNER'S AUTHORIZED AGENT TO PROVIDE A TECHNICAL OPINION AND REPORT.

104.2.2.1 COSTS. A TECHNICAL OPINION AND REPORT SHALL BE PROVIDED WITHOUT CHARGE TO THE JURISDICTION.

104.2.2.2 PREPARER QUALIFICATIONS. THE TECHNICAL OPINION AND REPORT SHALL BE PREPARED BY A QUALIFIED ENGINEER, SPECIALIST, LABORATORY OR SPECIALTY ORGANIZATION ACCEPTABLE TO THE CODE OFFICIAL. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE DESIGN SUBMITTALS TO BE PREPARED BY, AND BEAR THE STAMP OF, A REGISTERED DESIGN PROFESSIONAL.

104.2.2.3 CONTENT. THE TECHNICAL OPINION AND REPORT SHALL ANALYZE THE PROPERTIES OF THE DESIGN, OPERATION OR USE OF THE BUILDING OR PREMISES AND THE FACILITIES AND APPURTENANCES SITUATED THEREON TO IDENTIFY AND PROPOSE NECESSARY RECOMMENDATIONS.

104.2.2.4 TESTS. WHERE THERE IS INSUFFICIENT EVIDENCE OF COMPLIANCE WITH THE PROVISIONS OF THIS CODE, THE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO REQUIRE TESTS AS EVIDENCE OF COMPLIANCE. TEST METHODS SHALL BE AS SPECIFIED IN THIS CODE OR BY OTHER RECOGNIZED TEST STANDARDS. IN THE ABSENCE OF RECOGNIZED TEST STANDARDS, THE CODE OFFICIAL SHALL APPROVE THE TESTING PROCEDURES. SUCH TESTS SHALL BE PERFORMED, AT NO EXPENSE OF THE COMMISSION, BY A PARTY ACCEPTABLE TO THE CODE OFFICIAL.

104.2.3 ALTERNATIVE MATERIALS, DESIGN AND METHODS OF CONSTRUCTION AND EQUIPMENT. EXCEPT WHEN AN ALTERNATIVE IS SPECIFICALLY PROHIBITED OR PRESCRIBED BY THIS CODE, THE PROVISIONS OF THIS CODE ARE NOT INTENDED TO PREVENT THE INSTALLATION OF ANY APPROVED MATERIAL OR TO PROHIBIT ANY APPROVED DESIGN OR METHOD OF CONSTRUCTION.

EXCEPTION: PERFORMANCE-BASED ALTERNATIVE MATERIALS, DESIGNS OR METHODS OF CONSTRUCTION AND EQUIPMENT COMPLYING WITH THE INTERNATIONAL CODE COUNCIL PERFORMANCE CODE.

104.2.3.1 APPROVAL AUTHORITY. SUBJECT TO SECTION 104.2.3, AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL BE APPROVED WHERE THE CODE OFFICIAL FINDS THAT THE PROPOSED ALTERNATIVE IS SATISFACTORY AND COMPLIES WITH SECTIONS 104.2.3.2 THROUGH 104.2.3.7, AS APPLICABLE.

104.2.3.2 APPLICATION AND DISPOSITION. THE MARYLAND PROFESSIONAL ENGINEER SHALL INDICATE ON THE PERMIT APPLICATION THAT THE PLUMBING SYSTEM IS AN ALTERNATIVE ENGINEERED DESIGN. THE PERMIT AND PERMANENT PERMIT RECORDS SHALL INDICATE THAT AN ALTERNATIVE ENGINEERED DESIGN WAS PART OF THE APPROVED INSTALLATION. WHERE THE ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION IS NOT APPROVED, THE CODE OFFICIAL SHALL RESPOND IN WRITING, STATING THE REASONS THE ALTERNATIVE WAS NOT APPROVED.

104.2.3.3 COMPLIANCE WITH CODE INTENT. AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL COMPLY WITH THE INTENT OF THE PROVISIONS OF THIS CODE.

104.2.3.4 EQUIVALENCY CRITERIA. AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL, FOR THE PURPOSE INTENDED, BE NOT LESS THAN THE EQUIVALENT OF THAT PRESCRIBED IN THIS CODE WITH RESPECT TO ALL OF THE FOLLOWING, AS APPLICABLE:

1. **QUALITY.**
2. **STRENGTH.**
3. **EFFECTIVENESS.**

4. DURABILITY.
5. SAFETY, OTHER THAN FIRE SAFETY.
6. FIRE SAFETY.

104.2.3.5 TESTS. TESTS CONDUCTED TO DEMONSTRATE EQUIVALENCY IN SUPPORT OF AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION APPLICATION SHALL BE OF A SCALE THAT IS SUFFICIENT TO PREDICT PERFORMANCE OF THE END USE CONFIGURATION. TESTS SHALL BE PERFORMED, AT NO EXPENSE TO COMMISSION, BY A PARTY ACCEPTABLE TO THE CODE OFFICIAL.

104.2.3.5.1 FIRE MARHSAL APPROVAL. ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION SHALL BE APPROVED BY FIRE MARSHAL.

104.2.3.6 RESEARCH REPORTS. SUPPORTING DOCUMENTATION, WHERE NECESSARY TO ASSIST IN THE APPROVAL OF MATERIALS OR ASSEMBLIES NOT SPECIFICALLY PROVIDED FOR IN THIS CODE, SHALL COMPLY WITH SECTIONS 104.2.3.6.1 AND 104.2.3.6.2.

104.2.3.6.1 EVALUATION REPORTS. EVALUATION REPORTS SHALL BE ISSUED BY AN APPROVED AGENCY, AND USE OF THE EVALUATION REPORT SHALL REQUIRE APPROVAL BY THE CODE OFFICIAL FOR THE INSTALLATION. THE ALTERNATE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION AND PRODUCT EVALUATED SHALL BE WITHIN THE SCOPE OF THE CODE OFFICIAL'S RECOGNITION OF THE APPROVED AGENCY. CRITERIA USED FOR THE EVALUATION SHALL BE IDENTIFIED WITHIN THE REPORT AND, WHERE REQUIRED, PROVIDED TO THE CODE OFFICIAL.

104.2.3.6.2 OTHER REPORTS. REPORTS NOT COMPLYING WITH SECTION 104.2.3.6.1 SHALL DESCRIBE CRITERIA, INCLUDING ANY REFERENCED TESTING OR ANALYSIS, USED TO DETERMINE COMPLIANCE WITH CODE INTENT AND JUSTIFY CODE EQUIVALENCE. THE REPORT SHALL BE PREPARED BY A QUALIFIED ENGINEER, SPECIALIST, LABORATORY OR SPECIALTY ORGANIZATION ACCEPTABLE TO THE CODE OFFICIAL. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE DESIGN SUBMITTALS TO BE PREPARED BY, AND BEAR THE STAMP OF, A MARYLAND PROFESSIONAL ENGINEER.

104.2.3.7 PEER REVIEW. THE CODE OFFICIAL IS AUTHORIZED TO REQUIRE SUBMITTAL OF A PEER REVIEW REPORT IN CONJUNCTION WITH A REQUEST TO USE AN ALTERNATIVE MATERIAL, DESIGN OR METHOD OF CONSTRUCTION, PREPARED BY A PEER REVIEWER THAT IS APPROVED BY THE CODE OFFICIAL.

104.2.4 MODIFICATIONS (WAIVERS). WHEREN PRACTICAL DIFFICULTIES INVOLVED IN CARRYING OUT THE PROVISIONS OF THIS CODE ARISE, UPON REQUEST OF THE OWNER OR THE OWNER'S AUTHORIZED AGENT, THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE SHALL HAVE THE AUTHORITY TO GRANT A MODIFICATION FOR INDIVIDUAL CASES, PROVIDED THAT THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE SHALL FIRST FIND ONE OR MORE SPECIAL INDIVIDUAL REASONS THAT MAKE APPLICATION OF THE STRICT LETTER OF THIS CODE IMPRACTICAL, THAT THE MODIFICATION IS IN COMPLIANCE WITH THE INTENT AND PURPOSE OF THIS CODE, AND THAT THE MODIFICATION DOES NOT LESSEN HEALTH, ACCESSIBILITY, LIFE OR FIRE SAFETY REQUIREMENTS OR CAUSE DAMAGE TO THE COMMISSION'S SYSTEMS. RECORDS OF ACTION GRANTING MODIFICATIONS SHALL BE MAINTAINED BY THE COMMISSION'S REGULATORY SERVICES DIVISION.

104.2.4.1 REQUEST. A MODIFICATION REQUEST SHALL BE SUBMITTED ON THE OFFICIAL CODE MODIFICATION REQUEST FORM. THE FORM SHALL BE SIGNED BY THE OWNER AND BY THE WSSC-LICENSED MASTER PLUMBER OR GASFITTER, OR A MARYLAND PROFESSIONAL ENGINEER.

104.2.4.2 INDEMNIFICATION. THE OWNER OR THE OWNER'S LEGAL REPRESENTATIVE SHALL SIGN THE HOLD HARMLESS AGREEMENT SECTION OF THE MODIFICATION REQUEST FORM, INDEMNIFYING THE COMMISSION AND ITS EMPLOYEES FROM AND AGAINST ALL LOSSES AND LIABILITIES THAT MAY RESULT FROM THE GRANTING OF THE MODIFICATION REQUEST.

104.2.4.3 FUTURE EDITIONS. THIS CODE INCORPORATES BY REFERENCE THE CURRENT EDITIONS OF MANY NATIONALLY RECOGNIZED CODES AND STANDARDS. REVISED AND UPDATED EDITIONS OF THE INCORPORATED CODES AND STANDARDS SHALL NOT AUTOMATICALLY BECOME PART OF THIS CODE. HOWEVER, THE CHIEF CODE OFFICIAL OR THE CHIEF CODE OFFICIAL'S DESIGNEE MAY CONSIDER AMENDMENTS TO PUBLISHED EDITIONS OF REFERENCED CODES AND STANDARDS NOT YET ADOPTED BY THE COMMISSION AS EVIDENCE SUPPORTING A REQUEST FOR A MODIFICATION.

[104.2]104.3 **Applications and permits.** The Commission shall receive applications, review construction documents and issue permits for the installation and alteration of covered work as may be required by this Code, inspect the premises for which such permits have been issued, and enforce compliance with the provisions of this Code.

104.3 Inspections. A Code Official shall make all the required inspections or shall accept reports of inspection by approved agencies or individuals. All reports of such inspections shall be in writing and be certified by a responsible officer of such approved agency or by the responsible individual. The Commission shall retain the right to monitor or reinspect any inspection reported by other approval agencies or individuals. The Commission shall be authorized to engage such expert opinion as deemed necessary to report on unusual technical issues that arise at the expense of the owner or applicant.

104.4 Right of entry. Whenever it is necessary to perform an inspection to enforce the provisions of this Code, whenever a Code Official has reasonable cause to believe that there exists in any **[**building**]STRUCTURE** or upon any premises any violations of this Code, or to inspect a Commission inside water meter or a backflow preventer, the Code Official **[**shall have the authority**]IS AUTHORIZED** to enter the **[**building**]STRUCTURE** or premises at all reasonable times to inspect or to perform the duties imposed upon the Code Official by this Code. If such building or premises is occupied, the Code Official shall present credentials to the occupant and request entry. If such **[**building**]STRUCTURE** or premises is unoccupied, the Code Official shall first make a reasonable effort to locate the owner or other person having charge or control of the **[**building**]STRUCTURE** or premises and request entry. If entry is refused, or if the owner or the owner's agent cannot be located, the Code Official shall have recourse to any remedy provided by law to secure entry.

104.4.1 WARRANT. [Wheren**]WHERE** the Code Official shall have first obtained a proper inspection warrant or other remedy provided by law to secure entry, the owner, **THE OWNER'S AUTHORIZED AGENT,** occupant, proprietor, or person having charge or control of any building or premises shall promptly permit entry by the Code Official for inspection and examination pursuant to this Code.

104.5 Identification. A Code Official shall carry proper identification when inspecting structures or premises in the performance of duties under this Code.

104.6 Notices and orders. A Code Official shall issue all necessary notices or orders to ensure compliance with this Code. Where deemed inadequate, a system shall be provided, altered, or repaired as directed, and in a timeframe indicated by a Notice of Violation (NOV) served upon the property owner, occupant, proprietor, or operator. **NOTICES OF VIOLATION SHALL BE IN ACCORDANCE WITH SECTION 114.**

104.7 Commission non-interference. The Commission shall have no responsibility, nor shall the Commission pass judgment in any financial matters or other business-related controversy between a person registered with or licensed by the Commission and the public, under any circumstance.

104.8 Liability. The Code Official, member of the WSSC Plumbing and Fuel Gas Board, or other Commission employee charged with the creation or enforcement of this Code, while acting for the Commission in good faith and without malice in the discharge of the duties required by this Code or other applicable regulation or ordinance, shall not thereby be rendered liable, personally, and is hereby relieved from all personal liability for any damages accruing to persons or property as a result of an act or by reasons of an act or omission in the discharge of official duties.

104.8.1 Defense. Any suit instituted against any Commission employee because of an act performed by that Commission employee in the lawful discharge of duties and under the provisions of this Code shall be defended by the Commission until the final termination of the proceedings. The Code Official or any subordinate shall not be liable for costs in any action, suit or proceeding that is instituted under the provisions of this Code.

104.9 PRODUCT AND MATERIAL ACCEPTANCE.

104.9.1 STANDARDS. THE STANDARDS CITED IN THIS CODE ARE MINIMUM STANDARDS. EXCEPT AS OTHERWISE PROVIDED FOR IN THIS CODE, WHEN USED IN THE CONSTRUCTION, INSTALLATION, ALTERATION, OR REPAIR OF PLUMBING AND FUEL GAS SYSTEMS OR PARTS OF THESE SYSTEMS, PRODUCTS AND MATERIALS SHALL CONFORM TO OR EXCEED THE STANDARDS CITED IN THIS CODE. ALTHOUGH INDICATED AS APPROVED FOR PURPOSES OF THESE REGULATIONS, THE INCLUSION OR LISTING OF A PRODUCT OR MATERIAL DOES NOT INFER UNQUALIFIED ENDORSEMENT AS TO ITS SELECTION OR SERVICEABILITY IN ANY OR EVERY INSTALLATION.

104.9.2 MATERIALS HANDLING. PRODUCTS AND MATERIALS INSTALLED IN PLUMBING AND FUEL GAS SYSTEMS SHALL BE HANDLED AND INSTALLED AS TO AVOID DAMAGE SO THAT THE QUALITY OF THE PRODUCT OR MATERIAL SHALL NOT BE IMPAIRED.

104.9.3 DAMAGED MATERIALS. DEFECTIVE OR DAMAGED PRODUCTS, MATERIALS, EQUIPMENT, OR APPARATUS SHALL NOT BE INSTALLED OR MAINTAINED.

104.9.4 MATERIALS INSTALLATION. ALL PRODUCTS AND MATERIALS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE STANDARDS AND LISTINGS UNDER WHICH THE MATERIALS ARE ACCEPTED OR APPROVED, INCLUDING THE APPENDICES OF THE STANDARDS, AND IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

104.9.5 MATERIAL AND EQUIPMENT REUSE. UNLESS MATERIALS, EQUIPMENT AND DEVICES ARE IN GOOD WORKING CONDITION AND APPROVED FOR USE BY THE CODE OFFICIAL, THEY SHALL NOT BE REUSED.

[SECTION 105 APPROVAL]

[105.1 Modifications (waivers). Wheren practical difficulties involved in carrying out the provisions of this Code arise, the Chief Code Official or the Chief Code Official's designee shall have the authority to grant a modification for individual cases, upon request of the owner or the owner's authorized agent, provided that the Chief Code Official or the Chief Code Official's designee shall first find special individual reasons that make application of the strict letter of this Code impractical, that the modification is in conformity with the intent and purpose of this Code, and that the modification does not lessen health, life or fire safety requirements or cause damage to the Commission's systems. Records of action granting modifications shall be maintained by the Commission's Regulatory Services Division.

105.1.1 Request. A modification request shall be submitted on the official Code Modification Request form. The form shall be signed by the owner and by the WSSC-Licensed Master Plumber or Gasfitter, or a Maryland Professional Engineer.

105.1.2 Indemnification. The owner or the owner's legal representative shall sign the hold harmless agreement section of the modification request form, indemnifying the Commission and its employees from and against all losses and liabilities that may result from the granting of the modification request.

105.1.3 Future editions. This Code incorporates by reference the current editions of many nationally recognized codes and standards. Revised and updated editions of the incorporated codes and standards shall not automatically become part of this Code. However, the Chief Code Official or the Chief Code Official's designee may consider amendments to published editions of referenced codes and standards not yet adopted by the Commission as evidence supporting a request for a modification.

105.2 Alternative materials, design and methods of construction and equipment. The provisions of this Code shall not be intended to prevent the installation of any material or to prohibit any method of construction not specifically prescribed by this Code, provided that any such alternative has been approved. An alternative material or method of construction shall be approved where the Code Official finds that the proposed design is satisfactory and complies with the intent of this Code, and that the material, method or work offered is, for the purpose intended, at least the equivalent of that prescribed in this Code in quality, strength, effectiveness, fire resistance, durability and safety. Where the alternative material, design or method of construction is not approved, the Code Official shall respond in writing, stating the reasons why the alternative was not approved.

105.2.1 Research reports. Supporting data, where necessary to assist in the approval of materials or assemblies not specifically provided for in this Code, shall consist of valid research reports from approved sources.

105.2.2 Design criteria. An alternative engineered design shall conform to the intent of the provisions of this Code, and shall provide an equivalent level of quality, strength, effectiveness, fire resistance, durability and safety. Material, equipment or components shall be designed and installed in accordance with the manufacturer's installation instructions.

105.2.3 Submittal. The Maryland Professional Engineer shall indicate on the permit application that the plumbing system is an alternative engineered design. The permit and permanent permit records shall indicate that an alternative engineered design was part of the approved installation.

105.2.4 Technical data. The Maryland Professional Engineer shall submit sufficient technical data to substantiate the proposed alternative engineered design and to prove that its performance meets the intent of this Code.

105.2.5 Construction documents. The Maryland Professional Engineer shall submit construction documents per Section 110 of this Code for the alternative engineered design. The construction documents shall include floor plans and riser diagrams for the work. Where appropriate, the construction documents shall indicate the direction of flow, all pipe sizes, grade of horizontal piping, loading and location of fixtures and appliances.

105.2.6 Design approval. Where the Chief Code Official or the Chief Code Official's designee determines that the alternative engineered design conforms to the intent of this Code, the plumbing or fuel gas system shall be approved. If the alternative engineered design is not approved, the Chief Code Official or the Chief Code Official's designee shall notify the Maryland Professional Engineer in writing, stating the reasons for disapproval.

105.2.7 Inspection and testing. The alternative engineered design shall be tested and inspected in accordance with the requirements of Section 108 of this Code.

105.3 Required testing. Wherever there is insufficient evidence of compliance with the provisions of this Code, or evidence that a material or method does not conform to the requirements of this Code, or in order to substantiate claims for alternate materials or methods, the Code Official shall have the authority to require tests to be made, at no expense to the Commission, as evidence of compliance.

105.3.1 Test methods. Test methods shall be as specified in this Code or by other recognized test standards. In the absence of recognized and accepted test methods, the Code Official shall approve the testing procedures.

105.3.2 Testing agency. All tests shall be performed by an approved agency.

105.3.3 Test reports. Reports of tests shall be retained by the Code Official.

105.4 Product and material acceptance.

105.4.1 Standards. Except as otherwise provided for in this Code, products and materials shall conform at least to the standards cited in this Code, which shall be considered minimum standards, when used in the construction, installation, alteration, or repair of plumbing and fuel gas systems or parts of these systems. The inclusion or listing of a product or material although indicated as approved for purposes of these regulations, does not infer unqualified endorsement as to its selection or serviceability in any or every installation.

105.4.2 Materials handling. Products and materials installed in plumbing and fuel gas systems shall be handled and installed as to avoid damage so that the quality of the product or material shall not be impaired.

105.4.3 Damaged materials. Defective or damaged products, materials, equipment, or apparatus shall not be installed or maintained.

105.4.4 Materials installation. All products and materials used shall be installed in strict accordance with the standards and listings under which the materials are accepted or approved, including the appendices of the standards, and in strict accordance with the manufacturer's instructions.

105.4.5 Material and equipment reuse. Materials, equipment and devices shall not be reused unless reconditioned, tested, placed in good and proper working condition, and approved.**]**

SECTION [106]105 PERMITS

[106.1]105.1 Required permits.

[106.1.1]105.1.1 General. Any owner, owner's authorized agent or contractor who desires to construct, enlarge, alter, repair, move, demolish or change the occupancy of a building or structure, or to erect, install, enlarge, alter, repair, remove, convert or replace any plumbing, site utility, fuel gas appliance, or fuel gas system, the installation of which is regulated by this Code, or to cause any such work to be performed, shall first make application to the Commission and obtain the required permit for the work. All work identified in this Code, except for exempt work set forth in Section [106.2]105.2, shall be installed under a Long Form or Short Form Permit, or under a Site Utility Permit. Any person may pay permit fees; however, a permit will remain inactive until a WSSC-Licensed Master Plumber or Gasfitter is added to the permit via the Commission's electronic permit system. See Section [106.4.2]105.4.2.

[106.1.2]105.1.2 Permit selection tables. Permit Selection Tables 106.1.2.A and 106.1.2.B are a culmination of requirements throughout this section.

[106.1.3]105.1.3 Electronic permit application and required document submittals. All permit applications, fees, and required documents shall be submitted through ePermitting unless directed otherwise by a Code Official.

[106.1.4]105.1.4 Required inspections. The licensee, or homeowner in the case of homeowner's permit, shall be responsible to ensure that all work is inspected and approved in accordance with Section [108]111 of this Code.

[106.1.4.1]105.1.4.1 Disclosure. The Licensee shall be responsible for notifying the property owner or owner's agent of all permit and inspection requirements associated with the work performed prior to installation.

[106.2]105.2 Exempt work, general. Exemption from the permit requirement of this Code shall not be deemed to grant authorization for any work to be done in violation of the provisions of this Code or any other laws. Exemption from the permit requirement shall not preclude the licensee from obtaining permits and inspections if so desired.

[106.2.1]105.2.1 Exempt work, plumbing.

[106.2.1.1]105.2.1.1 Repairing leaks. Except as provided in Sections [106.2.1.3]105.2.1.3 through [106.2.1.6]105.2.1.6, the following plumbing work shall be exempt from the requirement for a permit, stopping of leaks in drains, water, soil, waste or vent pipe, provided that if any concealed trap, drainpipe, water, soil, waste or

vent pipe becomes defective and it becomes necessary to remove and replace the same with new material, such work shall be considered as new work and a permit shall be obtained and an inspection made as provided in this Code.

[106.2.1.2]105.2.1.2 Plumbing maintenance. Except as provided in Sections [106.2.1.3]105.2.1.3 through [106.2.1.6]105.2.1.6, the following plumbing work shall be exempt from the requirement for a permit: clearing of stoppages in fixture branches; the repairing of incidental leaks in pipes, valves or fixtures; the removal and reinstallation or replacement of existing plumbing fixtures, residential type plumbing appliances including electric water heaters, non-testable backflow prevention devices, and plumbing appurtenances; provided that such repairs do not involve or require the replacement of concealed piping, or the rearrangement of valves, pipes or fixtures.

[106.2.1.3]105.2.1.3 Testing and rebuilding of testable backflow prevention assemblies. The testing and rebuilding of testable backflow prevention assemblies shall not be exempt**.** The testing and replacement shall only be performed by a WSSC-Licensed Cross-Connection Technician and requires the submission of a completed WSSC Water Backflow Prevention Assembly Test Report to the Commission's online Cross-Connection Test Report System.

[106.2.1.4]105.2.1.4 Ten-percent rule, pipe replacement. Replacement of more than 10-percent of the existing piping for a system within the building footprint shall not be exempt.

[106.2.1.5]105.2.1.5 Repairs and replacement of buried systems. Repairs and replacement of buried piping or equipment shall not be exempt. Examples of repair work requiring a permit shall include building sewer, building water service, grinder pump (low pressure sewer system) replacement, and site utility water and sewer piping.

[106.2.1.6]105.2.1.6 Repairs and replacement of grease abatement systems. [Repairs and replacement of grease abatement piping and equipment, including the removal and reinstallation of plumbing fixtures and equipment shall not be exempt.**]THE FOLLOWING PLUMBING WORK SHALL NOT BE EXEMPT FROM THE REQUIREMENT FOR A PERMIT: WORK ON GREASE ABATEMENT SYSTEMS, INCLUDING THE INSTALLATION AND REINSTALLATION OF FIXTURES, REPAIRS OR REPLACEMENT OF PIPING, OR REPLACEMENT OF GREASE ABATEMENT EQUIPMENT AND APPURTANCES.**

[106.2.2]105.2.2 Exempt work, fuel gas. The following fuel gas work shall be exempt from the requirement for a permit,

[106.2.2.1]105.2.2.1 Gas appliance maintenance. With the exception of work that alters the condition of a previous approval or render such equipment unsafe, the following fuel gas work shall be exempt from the requirement for a permit, the replacement, repair, or adjustment of gas controls, burners, or minor components, or of luminous or portable appliances.

[106.2.2.2]105.2.2.2 Natural gas utility meter relocation. For a Group R-3 occupancy, the relocation of utility gas meter and associated utility equipment from inside of building to outside as part of gas utility maintenance, initiated by the gas utility, provided the following requirements are met,

[106.2.2.2.1]105.2.2.2.1 Code provisions. The relocation shall meet all provisions set forth in this Code.

[106.2.2.2.2]105.2.2.2.2 Licensed gasfitter. The work shall be performed by WSSC-Licensed Journeyman or Master Gasfitters.

[106.2.2.2.3]105.2.2.2.3 Maximum number of joints. Excluding the equipment connector, a maximum of 12 joints in the new and disturbed piping are allowed.

[106.2.2.2.4]105.2.2.2.4 Concealed piping. The new piping and any disturbed piping shall not be concealed.

[106.2.2.2.5]105.2.2.2.5 Developed length. The developed length of the new piping shall not exceed 15 feet (4572 mm).

[106.2.3]105.2.3 Exempt work, federal property. For exemptions for federal property, see Section 102.8.

Table [106.1.2a]105.1.2A
Required Plumbing Permit[1]

Description	Long Form (LFP)	Short Form[2] (SFP)	No Permit Required
New or replacement structure; complete renovation	Required	No	
Modification, addition, alteration, extension, relocation	Required	No	
Demolition, remove fixtures or equipment & rough piping (capping off at active inside mains or risers)	Likely[3, 14]	Likely[4, 14]	
Fixture removal & cap exposed rough-ins for future re-use	No	No	NR
Installation of plumbing fixture or plumbing appliance for first time on existing full rough, including water.	Allowed	Required[2]	
Replace existing plumbing fixture or appliance, of same kind and location, no alteration of rough-ins[11]	Allowed	Allowed	NR
New or replacement WSSC inside water meter, submeter, or special utilization meter (e.g. mixed-use, laundromat, etc.)	Required	No	
New, replacement, or relocation of a private water meter	Allowed	Allowed	NR
Installation of new building water service or building sewer (Includes Minor Site Utility Systems, but not service connections or Standard Site Utility Systems[5])	Required	No	
Replacement, relocation or repair of building water service or building sewer utilizing existing service connections	Allowed	Required[2]	
Cap-off of building water service and/or building sewer at property line for building razing (demolition)[6]	No	Required[2]	
Installation, replacement or retrofit of non-SDC equipment or appurtenance with water connections, but no fuel gas connection[12]	Allowed	Required[2]	
Replacement of water distribution or DWV piping for Group R-3 occupancy (residential)	Allowed	Required[2]	
Replacement of commercial water distribution or DWV piping if less than or equal to ten (10) percent of a system or sub-system[7]	Allowed	Required[2]	
Replacement of commercial water distribution or DWV piping if greater than ten (10) percent of a system or sub-system[7]	Required	No	
Minor Localized Interior Plumbing Repairs (spot repairs); fixing leaks, obstructed, or damaged piping[11]	Allowed	Allowed	NR
Replace existing grinder pump or sewage ejector pump[13]	Allowed	Required[2]	
Installation or relocation of testable backflow assemblies [or non-testable backflow devices][8,16]	Required	No	
INSTALLATION OR RELOCATION OF NON-TESTABLE DEVICE[16]	**ALLOWED**	**REQUIRED[2]**	
Replacement of testable backflow assemblies[8]	Allowed	Required[2]	
Testing of testable backflow assemblies[8]	No	No	NR
Replacement of non-testable backflow devices[9]	Allowed	Allowed	NR
General re-inspection fee or to repost lost tag (groundwork, close-in, gas, or final)[10]	No	Required[2]	
Additional Inspection Fee where groundworks, close-in or final was previously finalized, reopen category for more inspections[10]	No	Required[2]	
Replacement of existing grease interceptor with equivalent[15]	Allowed	Allowed	
Modification, addition, alteration, extension, relocation of grease interceptor or FOG system	Required	No	

Required = the lowest level of permit required.
Allowed = item may have permit optionally issued at this level where a lesser permit is required or where no permit is required, this will allow for numerous items to be consolidated under one permit and/or to facilitate an optional inspection where an inspection otherwise is not required by code.
No = cannot use this type of permit for the scope of work described.
NR = No Permit Required for the scope of work described.
Likely = See corresponding footnotes below.
1 - See Section [106]105 for details and conditions for all required permits and Exempt Work.
2 - See Section [106.7.1]105.7.1 for limitations - Generally, a SFP shall only be used for one (and only one), inspection type and limited to three inspectable items. Also see footnote 10.
3 - A Long Form Fixture Credit Permit may be needed to account for existing plumbing fixtures prior to removal and demolition where existing water or sewer services were installed after the commencement of System Development Charges (SDC - circa 1993) or where the scope of future construction, including fire protection, will trigger an upgrade of the Water or Sewer Service Connections; or the WSSC water meter.
4 - Where SDC fixture credit is not needed per footnote 3, a SFP may be used to facilitate inspection of inside demolition and cap-offs, especially needed in cases of partial demolition in an occupied building.
5 - Service Connection Permits (for connection to WSSC mains in public rights of ways) and Standard Site Utility System Permits (for large diameter on-site mains) shall follow permit requirements set forth in the Development Services (DS) Code.
6 - Cap-off is a temporary action used to facilitate the razing (demolition) of a structure. An abandonment is a permanent condition where water or sewer service connections are disconnected at their respective mainline. Abandonments are required to be executed under a Service Connection Permit in accordance with the DS Code.
7 - See Section [106.2.1.4]105.2.1.4.
8 - See Sections [106.2.1.3]105.2.13 and 508.
9 - A replacement/rebuild tag is required per Section 508.3.1.2.1.
10 - The assessment of a reinspection Fee, see Section [109.7]108.7.
11 - See Section [106.2.1.3]105.2.1.3.
12 - New installations are limited to residential appurtenances (such a solar pre-heaters); New commercial installations shall require a long form permit.
13 - Where a grinder pump system discharges to a WSSC pressure sewer system, the pump shall be an exact replacement, manufacture and model, unless an alternate is approved by WSSC Engineering.
14 - See Section 504.8.
15 - Equivalent [is a grease interceptor with the same manufacturer, model, flow rate as original; or a]MEANS A Commission approved [model]GREASE INTERCEPTOR with the same flow rate OR GREATER.
16 - SEE SECTION 105.6 FOR REQUIREMENTS FOR LONG FORM PERMIT AND EXCEPTIONS FOR SHORT FORM PERMIT.

Table [106.1.2b]105.1.2B
Required Fuel Gas Permit[1]

Description[3, 13]	Long Form (LFP)	Short Form[2] (SFP)	No Permit Required
New or replacement structure; complete renovation	Required	No	
Modification, addition, alteration, extension, relocation; for Group R-3 occupancy (one or two family dwelling, SFH or TH)	Allowed	Required[2]	
Modification, addition, alteration, extension, relocation; for other than R-3 (multi-unit buildings, commercial, industrial)	Required	No	
Demolition, remove appliances & rough piping (capping off at active mains or risers)[12]	Allowed	Required[2]	
Appliance removal & cap exposed rough-ins for future re-use[4]	No	No	NR[4]
Installation of gas appliance or equipment for first time on existing full rough[5]	Allowed	Required[2]	
Replace existing gas appliance of same kind, load, and location; less than or equal to 450,000 Btu/h; no pipeline alteration.	Allowed	Required[2]	
Replace existing gas appliance of same kind, load, and location; greater than 450,000 Btu/h; no pipeline alteration.	Required	No	
Minor localized gas or venting repairs (spot repairs); fixing leaks, obstructed, or damaged piping	Allowed	Required[2]	
Gas appliance maintenance; replacement, repair or adjustment of gas controls, burners, pilot assemblies[4]	No	No	NR[4]
Temporary Piping (typically for construction heaters) with three or fewer outlets	Allowed	Required[2]	
Temporary Piping (typically for construction heaters) with four or more outlets; plans review required[6]	Required	No	
Move and reconnect temporary/construction heaters to other outlets on previously approved temporary piping system[4]	No	No	NR[4]
Chimney or vent Lining; common vent or vent connector replacement[7]	Allowed	Required[2]	
Gas utility meter relocation, initiated by the gas company for system enhancement, bound by the limits of the twelve joint rule[8]	No	No	NR[4]
Gas utility meter relocation, initiated by the property owner (typically due to construction conflict)[9]	Allowed	Required[2]	
Pressure testing after service interuption; meter pulled due to fire, structural damage, leak(s), etc. (i.e. emergency Inspection)	Allowed	Required[2]	
Reconnection of appliances after service interuption; new appliance shut-off valves and/or appliance connectors[10]	Allowed	Required[2]	
General reinspection fee; repost lost tag (groundwork, close-in, gas, or final)[11]	No	Required[2]	
Additional inspection fee where groundworks, close-in or final was previously finalized, reopen category for more inspections[11]	No	Required[2]	

Required = the lowest level of permit required.
Allowed = item may have permit optionally issued at this level where a lesser permit is required or where no permit is required; this will allow for numerous items to be consolidated under one permit and/or to facilitate an optional inspection where an inspection otherwise is not required by code.
No = cannot use this type of permit for the scope of work described.
NR = No Permit Required for the scope of work described.
Likely = See corresponding footnotes below.
1 - See Section [106]105 for details and conditions for all required permits and Exempt Work.
2 - See Section [106.7.1]105.7.1 for limitations - Generally, a SFP shall only be used for one (and only one), inspection type and limited to three inspectable items. Also see footnote 10.
3 - All descriptions include underground (after the point of delivery), where applicable, unless noted otherwise.
4 - Although this work described does not require a permit, it shall only be performed by a WSSC-Licensed Journeyman or Master Gasfitter. Or in the case of appliance maintenance, a factory certified technician may perform these minor troubleshooting tasks.
5 - Original rough-in was sized to accommodate specific appliance and load; at discretion of the WSSC plumbing inspector - original supporting documentation or new plans review may be required.
6 - Initial/First time connection for each heater shall be inspected and approved; this inspection is covered under the Long Form Permit.
7 - Re-lining or replacing venting components is covered under appliance permit where applicable. Stand alone permit needed when peformed by different contractor under separate contract.
8 - See Section [106.2.2.2]105.2.2.2 - Where the gas company, or their contractor, goes outside the scope of Sections [106.2.2.2]105.2.2.2 and 402.4.2, an applicable permit and inspection is required.
9 - Plans review is required for commercial work with 4 or more appliances; also required for large scale residential systems at the WSSC Plumbing Inspectors discretion.
10 - Within 10 business days of restoring a system (after interuption and subsequent testing), a permit and inspection is required for re-connected appliances utilizing replacement appliance shut-off valves and/or replacement appliance connectors.
11 - The assessment of a reinspection fee, see Section [109.7]108.7.
12 - Cap-off is a temporary action used to facilitate the razing, demolition, or remodeling of a structure. Applies to gas distribution piping after the point of delivery; typically onsite to isolate an area; or one or more buildings from the remaining system.
13 - Gas Appliances with potable water connections or requiring backflow prevention shall require a combination plumbing/gas permit; alternately, the work may represented by two permits - one plumbing and one gas.

[106.3]105.3 Permit application. Each permit application shall be filed with the Commission on a Commission approved permit application form. All permit applications shall include the following: property owner's and owner's agent's name, address, and contact information; the address and property description where the work will be performed, and a complete description of work to be performed. The application shall be electronically validated by the authorized permit applicant. A permit application shall not be a permit, and the submission of an application shall not confer permission to proceed with the work.

[106.3.1]105.3.1 Foundation or sub-slab permits. When a county issues a "foundation only" building permit, the Commission may issue a permit to install sub-slab ground works. The permit applicant shall submit construction documents and plans under Section [110]106 and shall include load factors for, and adequate identification of, future above slab piping, fixtures, and equipment in order to determine the adequacy of pipe sizing as well as waste and venting configurations served by and routing to the sub-slab piping. Where applicable, the owner shall submit a hold harmless agreement, for a project to commence before final water and sewer connection design approval and issuance.

[106.4]105.4 Requirements for permit applicants. Application for a permit, to install all or part of any plumbing or fuel gas system, shall be made by an authorized permit applicant. The applicant shall meet all qualifications established by this Code and by other applicable law. The full name and address of the applicant shall be stated in the application.

[106.4.1]105.4.1 Authorized permit applicants. The following shall be authorized permit applicants,

[106.4.1.1]105.4.1.1 Authorized registered users. Authorized registered users includes principal Master Plumbers or Gasfitters or their proxy who have registered with the Commission's ePermitting system. Principal Master Plumbers or Gasfitters or their proxy can apply for Long Form Permits, Short Form Permits, Fixture Credit Permits, or schedule inspections on those permits.

[106.4.1.2]105.4.1.2 Registered users. Registered users includes persons who have registered with the Commission's ePermitting system. Registered users can apply for Long Form Permits.

[106.4.2]105.4.2 Purchase of permits security policy. Any person may pay permit fees; however, a permit will remain inactive until a WSSC-Licensed Master Plumber or Gasfitter is added to the permit via the Commission's electronic permit system, ePermitting.

[106.5]105.5 Permit issuance. The application, construction documents and other data filed by an applicant for a permit shall be reviewed by the Code Official. If the Code Official finds that the proposed work conforms to the requirements of this Code, and that the fees published by the Commission have been paid, a permit shall be issued to the applicant.

[106.5.1]105.5.1 Approved construction documents. When the Commission issues a permit where construction documents are required, the construction documents shall be endorsed in writing and stamped "approved" by the Code Official. The approved construction documents shall not be changed, modified or altered without authorization from the Code Official. All work shall be done in accordance with the approved construction documents.

The Code Official shall have the authority to issue a permit for the construction of a part of a plumbing or fuel gas system before the entire construction documents for the whole system have been submitted or approved, provided adequate information and detailed statements have been filed complying with all pertinent requirements of this Code. The licensee shall proceed at own risk, without assurance that the permit for the entire system shall be granted.

[106.5.2]105.5.2 Validity. The issuance of a permit shall be a license to proceed with the work. The issuance of a permit or approval of construction documents shall not be construed as authority to violate, cancel or set aside any of the provisions of this Code or of other law of the jurisdiction. Except as approved under [Section 105]**SECTIONS 104.2.3 AND 104.2.4**, a permit presuming to give authority to violate or cancel the provisions of this Code shall not be valid.

The issuance of a permit based on construction documents and other data shall not prevent the Code Official from requiring the correction of errors in construction documents and other data, or from preventing building operations being carried on when in violation of this Code or of other Commission regulations.

[106.5.3]105.5.3 Permit invalidation. Subject to applicable state law, the Commission may suspend, revoke, or invalidate a permit or approval issued under the provisions of this Code in case of any false statement or misrepresentation of fact in the application or on the construction documents upon which the permit or approval was based.

Examples of misrepresentation of fact shall include the following:

a. Payment of residential fees for a property used in a commercial manner.
b. Permit issued for an outbuilding or garage that is subsequently illegally converted for use as a residence or dwelling unit.

c. Permit applicant falsely representing the applicant as the owner, not the owner's agent.

[106.6]105.6 Long Form Permit. A Long Form Permit shall be required for all new plumbing and fuel gas work requiring one or more inspections, including major alterations or additions and design retrofit work; for any plumbing work requiring the establishment of a new WSSC customer account; and for a new **INSTALLATION**, or the relocation of a testable or non-testable backflow preventer.

EXCEPTIONS:

1. **A SHORT FORM PERMIT MAY BE USED FOR THE DIRECT REPLACEMENT OF ALL TESTABLE BACKFLOW PREVENTION ASSEMBLIES IF THE FOLLOWING REQUIREMENTS ARE MET:**
   - **A. THE EXISTING LOCATION AND APPLICATION MEET THE REQUIREMENTS OF THIS CODE.**
   - **B. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE LISTED TO THE SAME STANDARD AS THE EXISTING ASSEMBLY.**
   - **C. THE NEW TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.**
2. **A SHORT FORM PERMIT MAY BE USED FOR THE FIRST TIME INSTALLATION OF A NON-TESTABLE DEVICE ON AN EXISTING ROUGH-IN, FOR AN EXISTING FIXTURE, OR REPLACEMENT OF A FIXTURE.**

[106.6.1]105.6.1 Expiration. A Long Form Permit shall expire if the work authorized by the permit does not pass an inspection within 18-months from the date of issuance of the permit, or if the work authorized by the permit does not pass a progress inspection or final inspection within 18-months from the date of the last performed inspection.

[106.6.1.1]105.6.1.1 Re-activation. Before the original permitted work can be recommenced, the current minimum Long Form Permit fee must be paid as a reissue fee. In addition, the current amount for inspection fees and System Development Charges (SDC) shall be due for additional fixtures and the difference in SDC is due for existing permitted fixtures based on the originally permitted fee.

[106.6.2]105.6.2 Commission submeter permit application. The applicant shall be responsible to provide accurate account information including name, address, billing account number, and main water meter identification.

[106.6.3]105.6.3 Minor site utility permit. A WSSC-Licensed Master Plumber shall secure a Long Form Permit before the construction of a minor site utility system.

[106.7]105.7 Short Form Permit. A Short Form Permit shall be allowed for the replacement, repair, or alteration of existing plumbing and fuel gas systems, fixtures, or appliances requiring only one inspection. **[**A Short Form Permit may be used for the direct replacement of all testable backflow prevention assemblies if the following requirements are met:

- **a.** The existing location and application meet the requirements of this Code.
- **b.** The new testable backflow prevention assembly shall be listed to the same standard as existing.
- **c.** The new testable backflow prevention assembly shall be installed per manufacturer's installation instructions.**]**

[106.7.1]105.7.1 Limitations. A Short Form Permit for a singular inspection shall be limited to 3 inspection items. Inspection items include inspectable items selected on permit application. Gas appliances shall be limited to 450,000 Btu/h (131 KW) each. Only one address or one occupancy unit shall be listed on each permit. Only one inspection shall be performed for each permit.

[106.7.2]105.7.2 Timely inspection. All required inspections, including new or replacement gas appliances, shall be scheduled for inspection to occur as soon as practical, but not to exceed 10 business days from the date of installation.

[106.7.3]105.7.3 Obstructed process. If the property owner or agent of the owner obstructs or refuses to allow **[**the**]A** licensee to schedule **[**the**]A REQUIRED** inspection **[**required under Section 106.7.2**]**, the licensee shall promptly notify the Commission in writing. The notification shall occur within 15 days of installation and shall include the property owner or owner agent's name and mailing address, project address, phone number, email address, permit number, and documentation of attempts to schedule the inspection.

[106.7.4]105.7.4 Expiration. A Short Form Permit shall expire and be cancelled by the Commission if not activated within six months from the date of purchase, without benefit of refund.

[106.7.4.1]105.7.4.1 Failed inspection. Active Short Form Permits shall expire 60 days after the date of a disapproved inspection.

[106.7.4.2]105.7.4.2 Reuse or refund. A Short Form Permit inspection scheduled in error shall not be reused or refunded.

[106.8]105.8 Permit release and transfer.

[106.8.1]105.8.1 Licensee request. The Commission may issue a permit release upon the licensee's written request to be released from permit to the Commission's Permit Services Section.

[106.8.2]105.8.2 Owner request. Transfer of a permit prompted by a property owner shall require a written request by the owner to the Commission. The request shall include the owner's name, property address, and owner's phone number. The Commission shall notify the previous licensee of the transfer.

[106.8.3]105.8.3 Transition inspection. Prior to any work being performed by the permit transferee (new licensee) the transferee may schedule and shall stand a transition inspection to verify the extent of the work performed by transferer at the time of transfer. When no work has been performed on the original permit beyond the last approved inspection, a transition inspection shall not be necessary.

[106.8.4]105.8.4 Fee refund. See Section [109.5]108.5.

[106.9]105.9 Work by homeowners. Homeowners may perform the following plumbing work in their own residential unit as provided in this section.

[106.9.1]105.9.1 Work not requiring permits. A homeowner may perform classes of plumbing work that do not require a permit as set forth in Section [106.2]105.2.

[106.9.2]105.9.2 Work allowed under a homeowner permit. Except for work identified in Section [106.9.5]105.9.5, a homeowner may perform most classes of work normally performed by a licensed plumber if the conditions for a homeowner permit set forth in Sections [106.9.3]105.9.3 and [106.9.4]105.9.4 are satisfied.

[106.9.3]105.9.3 Conditions for a homeowner permit.

[106.9.3.1]105.9.3.1 Building type. The premises shall be a Group R-3 occupancy.

[106.9.3.2]105.9.3.2 Separate services. Building water and building sewer services shall be provided by separate Commission service connections, i.e., not shared with or serving any other property, or shall be provided by private well or septic systems or both.

[106.9.3.3]105.9.3.3 Ownership. The applicant shall provide proof, such as property records, that the applicant is the bona fide owner of the premises. The applicant shall sign an affidavit indicating that the applicant is the bona fide owner and occupant of the premises; and that the premises is not being built or remodeled for sale or for rent. The affidavit shall state that all work shall be performed by the applicant in strict compliance with this Code and approved drawings including all inspections, tests, reinspection when required due to failed inspections, reinspection fees, and other administrative requirements normally required of licensed plumbers.

[106.9.4]105.9.4 Additional applicant requirements.

[106.9.4.1]105.9.4.1 Codebook. The applicant shall be required to have access to the current approved versions of the WSSC Plumbing and Fuel Gas Code and the International Plumbing Code.

[106.9.4.2]105.9.4.2 Written test. The applicant shall be required to pass an exam appropriate to the proposed plumbing work. The exam shall include questions about basic trade knowledge of plumbing and basic code requirements. The test shall be open-book or with access to digital or online codes, shall have a time limit, and shall be administered by the Commission or its exam consultant. If the applicant does not score 70% or higher, then the applicant shall be permitted to re-take the exam one time.

[106.9.4.3]105.9.4.3 Drawings. The applicant shall submit floor plans or riser diagrams or both for approval, as directed by the Code Official, and shall install the work in accordance with this approval.

[106.9.4.4]105.9.4.4 Containment. The **RESIDENTIAL UNIT IS REQUIRED TO HAVE CONTAINMENT BACKFLOW. IF THE** RESIDENTIAL UNIT **DOES NOT CURRENTLY HAVE CONTAINEMENT BACKFLOW, THE** homeowner shall install [or update] a dual check backflow preventer (ASSE 1024) for containment [of domestic water on premise]. **EXISTING BACKFLOW PREVENTERS SHALL BE INSTALLED, MAINTAINED, AND TESTED ACCORDING TO THE CODE.**

[106.9.5]105.9.5 Work not allowed. The following work may not be performed by homeowners:

[106.9.5.1]105.9.5.1 Below grade piping. Below grade piping deeper than 4 feet (1,219 mm), including repair of water or sewer services, or piping that crosses other utilities.

[106.9.5.2]106.9.5.2 Connection to Commission. Connection to a Commission water or sewer service connection**.**

[106.9.5.3]105.9.5.3 Commission meters. The installation or replacement of a Commission meter.

[106.9.5.4]105.9.5.4 Number of fixtures. Projects involving seven or more fixtures or appurtenances that require a permit and inspection.

[106.9.5.5]105.9.5.5 Testable backflow prevention assemblies. Installation and testing of testable backflow prevention assemblies.

[106.9.5.6]105.9.5.6 Gasfitting. Gasfitting installations, including the installation or replacement of a gas-fired water heater or appliance.

[106.9.5.7]105.9.5.7 Prohibited work. Work located off-property, Commission-owned structures or appurtenances.

SECTION 106 CONSTRUCTION DOCUMENTS

106.1 CONSTRUCTION DOCUMENTS. WITH THE EXCEPTION OF SECTION 106.1.1, CONSTRUCTION DOCUMENTS, PLANS, ENGINEERING CALCULATIONS, DIAGRAMS AND OTHER SUCH DATA SHALL BE SUBMITTED ELECTRONICALLY TO THE COMMISSION'S EPLAN REVIEW SYSTEM WITH EACH APPLICATION FOR A LONG FORM PERMIT OR FOR A SHORT FORM PERMIT WHEN REQUIRED BY THE CODE OFFICIAL. CONSTRUCTION DOCUMENTS SHALL BE DRAWN TO SCALE AND SHALL BE OF SUFFICIENT CLARITY TO INDICATE THE LOCATION, NATURE AND EXTENT OF THE WORK PROPOSED AND SHOW IN DETAIL THAT THE WORK CONFORMS TO THE PROVISIONS OF THIS CODE.

106.1.1 WAIVE SUBMISSION OF CONSTRUCTION DOCUMENTS. THE CODE OFFICIAL SHALL HAVE THE AUTHORITY TO WAIVE THE SUBMISSION OF CONSTRUCTION DOCUMENTS, CALCULATIONS OR OTHER DATA IF THE NATURE OF THE WORK APPLIED FOR SHALL BE SUCH THAT REVIEWING OF CONSTRUCTION DOCUMENTS SHALL NOT BE NECESSARY TO DETERMINE COMPLIANCE WITH THIS CODE. IN GENERAL, CONSTRUCTION DOCUMENTS SHALL NOT BE REQUIRED FOR THE FOLLOWING,

- **a. GROUP R-3 OCCUPANCY**
- **b. COMMERCIAL WORK THAT MEETS ALL OF THE FOLLOWING,**
  - **i. WITH 10 OR FEWER CUMULATIVE PROPOSED PLUMBING AND GAS FIXTURES ON PERMIT.**
  - **ii. WITH 3 OR FEWER PROPOSED GAS FIXTURES ON PERMIT, SERVED BY A DEDICATED SOURCE, WITH AN INPUT RATING OF LESS THAN 200,000 BTU/H (58 KW) EACH.**
  - **iii. WITHOUT FOG ABATEMENT.**
  - **iv. WITHOUT INDUSTRIAL OR SPECIAL WASTE.**

IF A PROJECT HAS A CUMULATIVE TOTAL OF MORE THAN 10 ITEMS, AN AUTHORIZED PERMIT APPLICANT SHALL NOT BE ALLOWED TO USE MULTIPLE PERMITS IN ORDER TO MEET THE REQUIREMENTS OF THE EXCEPTION TO SECTION 106.1.

106.1.2 ENGINEERED DESIGN REQUIRED. THE CODE OFFICIAL MAY REQUIRE CONSTRUCTION DOCUMENTS, PLANS, COMPUTATIONS, AND SPECIFICATIONS TO BE PREPARED AND DESIGNED BY A MARYLAND PROFESSIONAL ENGINEER. WHERE FIXTURES, EQUIPMENT, OR PROCESSES ARE OUTSIDE THE SCOPE OF STANDARD LOADING FACTORS PRESCRIBED IN THIS CODE, SUCH AS COMMERCIAL OR INDUSTRIAL LAUNDRIES AND LAUNDROMATS, AN ENGINEERED DESIGN SHALL BE REQUIRED, AND THE DOCUMENTS, PLANS AND SPECIFICATIONS SHALL BE SEALED AND SIGNED BY A MARYLAND PROFESSIONAL ENGINEER. IN ANY CASE, WHERE THE DESIGN HAS BEEN SEALED AND SIGNED, THE ENGINEER SHALL BE PROFICIENT IN MECHANICAL, PLUMBING, AND FUEL GAS DESIGN; SPECIFICALLY, WATER, DRAINAGE, FUEL GAS, APPLIANCE VENTING, OR VENTILATION AND MAKE-UP AIR, AS APPLICABLE.

106.1.2.1 SUBMISSION OF CONSTRUCTION DOCUMENTS FOR ENGINEERED DESIGN REQUIRED. WHEN THE CODE OFFICIAL REQUIRES CONSTRUCTION DOCUMENTS TO BE PREPARED BY A MARYLAND PROFESSIONAL ENGINEER UNDER SECTION 106.1.2, THE CODE OFFICIAL MAY REQUIRE THE CONSTRUCTION DOCUMENTS TO BE SUBMITTED BY THE ENGINEER. THE CODE OFFICIAL MAY ALSO REQUIRE THAT ANY TECHNICAL BASED INQUIRIES RELATED TO PROJECT BE MADE BY THE ENGINEER, PRINCIPAL MASTER, OR A LICENSEE.

106.1.3 ELECTRONIC SUBMITTAL REQUIRED. DESIGN PLANS AND OTHER REQUIRED SUPPORTING DOCUMENTATION SHALL BE SUBMITTED TO THE COMMISSION IN ACCORDANCE WITH APPLICABLE ELECTRONIC SUBMITTAL AND RELATED CHECKLIST PROTOCOLS.

106.2 RETENTION OF CONSTRUCTION DOCUMENTS. ELECTRONIC RECORDS OF APPROVED CONSTRUCTION DOCUMENTS SHALL BE RETAINED BY THE CODE OFFICIAL UNTIL FINAL INSPECTION APPROVAL OF THE WORK COVERED THEREIN. THE WSSC-LICENSED PLUMBER OR GASFITTER SHALL HAVE THE APPROVED CONSTRUCTION DOCUMENTS PRINTED AND PROVIDED ON THE PROJECT SITE FOR THE CODE OFFICIALS USE TO DOCUMENT THE PROJECT PROGRESS AND INCREMENTAL INSPECTION RESULTS. THE APPROVED CONSTRUCTION DOCUMENTS SHALL BE KEPT ON THE SITE OF THE BUILDING OR WORK AT ALL TIMES WHICH THE AUTHORIZED WORK IS IN PROGRESS.

SECTION 107 NOTICE OF APPROVAL

107.1 APPROVAL. AFTER THE PRESCRIBED TESTS AND INSPECTIONS INDICATE THAT THE WORK AUTHORIZED BY A PERMIT COMPLIES IN ALL RESPECTS WITH THIS CODE, A NOTICE OF APPROVAL SHALL BE ISSUED BY THE CODE OFFICIAL.

107.1.1 REVOCATION. THE CODE OFFICIAL IS AUTHORIZED TO, IN WRITING, SUSPEND OR REVOKE A NOTICE OF APPROVAL ISSUED UNDER THE PROVISIONS OF THIS CODE WHEREVER THE NOTICE IS ISSUED IN ERROR, OR ON THE BASIS OF INCORRECT INFORMATION SUPPLIED, OR WHERE IT IS DETERMINED THAT THE BUILDING OR STRUCTURE, PREMISE OR PORTION THEREOF IS IN VIOLATION OF ANY ORDINANCE OR REGULATION OR ANY OF THE PROVISIONS OF THIS CODE.

SECTION 108 FEES

108.1 PAYMENT OF FEES. A PERMIT SHALL NOT BE ISSUED UNTIL ALL APPLICABLE FEES HAVE BEEN PAID, AND AN AMENDMENT TO A PERMIT SHALL NOT BE RELEASED UNTIL THE ADDITIONAL FEE, IF ANY, DUE TO AN INCREASE OF THE PLUMBING, FUEL GAS, OR SITE UTILITY SYSTEMS, HAS BEEN PAID.

108.1.1 INSUFFICIENT FUNDS. IN CASES WHERE FUNDS ARE INSUFFICIENT IN CHECK AND ELECTRONIC FUND TRANSFERS, THE APPLICANT SHALL PAY FOR ASSOCIATED COSTS INCURRED BY THE COMMISSION IN ADDITION TO THE REQUIRED FEES. THE COMMISSION RESERVES THE RIGHT TO REQUIRE THE APPLICANT TO PAY WITH CASH ONLY FOR A PERIOD OF 180 DAYS AFTER THE DATE IT RECEIVES NOTICE OF THAT FUNDS WERE INSUFFICIENT IN CHECK OR ELECTRONIC FUND TRANSFERS.

108.2 FEE SCHEDULE. THE PERMIT FEES FOR ALL PLUMBING, GASFITTING, AND SITE UTILITY WORK, AS WELL AS SYSTEM DEVELOPMENT CHARGE (SDC) FEES OR OTHER IMPACT FEES, IF ANY, SHALL BE AS INDICATED IN SEPARATE FEE SCHEDULES PUBLISHED BY THE COMMISSION.

108.2.1 ACCURACY OF FIXTURE COUNT. THE PERMIT APPLICANT IS REQUIRED TO SUBMIT AN ACCURATE FIXTURE COUNT ON PERMIT APPLICATIONS. THE COMMISSION IS NOT RESPONSIBLE FOR THE ACCURACY OF FIXTURE COUNT AT THE TIME OF ISSUANCE OF PERMIT.

108.2.2 INTERPRETATION OF FIXTURE CODES AND DESCRIPTIONS. THE PERMIT APPLICANT AND LICENSEE ARE RESPONSIBLE FOR PROPERLY REPRESENTING THE BUILDING USE AND THE DELINEATION OF PLUMBING FIXTURES AND EQUIPMENT, FOR BOTH RESIDENTIAL AND FOR NON-RESIDENTIAL USE. APPLICANTS SHALL REFER QUESTIONS REGARDING FIXTURE CODES AND DESCRIPTIONS, OR SDC FEES TO PERMIT SERVICES.

108.3 WORK COMMENCING BEFORE PERMIT ISSUANCE. ANY PERSON WHO COMMENCES ANY WORK ON A PLUMBING, FUEL GAS, OR SITE UTILITY SYSTEM BEFORE OBTAINING THE NECESSARY PERMITS SHALL BE SUBJECT TO PENALTIES AND UNDER SECTION 114.

108.4 RELATED FEES. THE PAYMENT OF THE FEE FOR THE CONSTRUCTION, ALTERATION, REMOVAL OR DEMOLITION FOR WORK DONE IN CONNECTION TO OR CONCURRENTLY WITH THE WORK AUTHORIZED BY A PERMIT SHALL NOT RELIEVE THE APPLICANT OR HOLDER OF THE PERMIT OF OTHER FEES THAT ARE PRESCRIBED BY LAW.

108.5 FEE REFUNDS. EXCEPT AS OTHERWISE PROVIDED IN PUBLIC UTILITIES ARTICLE, ANNOTATED CODE OF MARYLAND, THE COMMISSION SHALL AUTHORIZE THE REFUNDING OF FEES, NO LATER THAN 180-DAYS AFTER THE DATE OF PERMIT CANCELLATION, EXPIRATION, OR FINAL INSPECTION, WHICHEVER IS LAST, AS FOLLOWS:

108.5.1 ERRONEOUS PAYMENT. THE FULL AMOUNT OF ANY FEE PAID THAT WAS ERRONEOUSLY PAID OR COLLECTED.

108.5.2 PERMIT CANCELLED. WITH THE EXCEPTION OF SHORT FORM PERMITS, WHEN NO WORK HAS BEEN PERFORMED AND NO INSPECTIONS HAVE TAKEN PLACE AND A PERMIT IS CANCELLED, ALL COMMISSION INSPECTION FEES AND SDC FEES SHALL BE REFUNDED TO THE PAYEE LESS THE COMMISSION'S PERMIT REFUND FEE FOR CURRENT FISCAL YEAR. SHORT FORM PERMIT FEES SHALL NOT BE REFUNDED.

108.6 SYSTEM DEVELOPMENT CHARGE FIXTURE CREDIT. IN CASES WHERE A BUILDING IS BEING DEMOLISHED OR RENOVATED, AN SDC FIXTURE CREDIT SHALL BE ALLOWED FOR EXISTING PLUMBING FIXTURES THAT WILL BE REMOVED. BEFORE THE CREDIT IS ISSUED, A FIXTURE CREDIT PERMIT SHALL FIRST BE OBTAINED AND THE FIXTURES TO BE REMOVED SHALL BE VERIFIED BY THE CODE OFFICIAL.

108.7 REINSPECTION FEES. REINSPECTION REQUESTS SHALL NOT BE SCHEDULED UNTIL THE FEE FOR REINSPECTION IS PAID.

108.7.1 PROCEDURES. FOR SHORT FORM PERMITS, THE LICENSEE SHALL PAY REINSPECTION FEE AND RESCHEDULE INSPECTION. FOR LONG FORM PERMITS, THE LICENSEE, OR HOMEOWNER IN THE CASE OF HOMEOWNER'S PERMIT,

SHALL PURCHASE A SHORT FORM PERMIT FOR THE PURPOSE OF PAYING REINSPECTION FEE AND SCHEDULING INSPECTION. THE ORIGINAL LONG FORM PERMIT AND THE ADDITIONAL REINSPECTION SHORT FORM PERMIT PURCHASED FOR REINSPECTION SHALL BE SCHEDULED FOR INSPECTION AT THE SAME TIME.

SECTION 109 CONNECTION TO THE COMMISSION'S SYSTEMS AND METERING

109.1 SERVICE CONNECTIONS, GENERAL. A NEWLY CONSTRUCTED BUILDING LOCATED ON A PROPERTY WHICH ABUTS A PUBLIC WATER OR SEWER MAIN SHALL CONNECT TO THOSE PUBLIC WATER OR SEWER SYSTEMS OR BOTH. ANY PROPERTY THAT DOES NOT ABUT A PUBLIC WATER OR SEWER MAIN MAY CONNECT TO A PRIVATE WELL FOR WATER SUPPLY OR PRIVATE SEWAGE DISPOSAL SYSTEM (SEPTIC SYSTEM) IF THE PROPERTY IS CATEGORIZED BY THE RESPECTIVE COUNTY'S WATER OR SEWER CATEGORY MAPS, AND THE PROPERTY IS PERMITTED BY THE RESPECTIVE COUNTY'S HEALTH DEPARTMENT. ANY PROPERTY THAT IS NOT CATEGORIZED OR PERMITTED BY THE RESPECTIVE COUNTY FOR PRIVATE WATER OR SEWAGE DISPOSAL SHALL APPLY FOR A SYSTEM (MAIN LINE) EXTENSION OR A NON-ABUTTING CONNECTION TO THE PUBLIC WATER OR SEWER SYSTEM. THIS SECTION SUPERSEDES SECTIONS 602.3 AND 701.2 OF THE IPC.

109.1.1 SIZE, TYPE, AND LOCATION. THE COMMISSION SHALL HAVE APPROVAL AUTHORITY OF THE SIZE, DEPTH, LOCATION, AND TYPE OF CONSTRUCTION OF WATER AND SEWER SERVICE CONNECTIONS.

109.1.1.1 WATER SERVICE CONNECTION, MINIMUM SIZE. THE MINIMUM SIZE NEW WATER SERVICE CONNECTION FOR GROUP R-3 OCCUPANCIES SHALL BE 1 1/2-INCHES. WATER SERVICE CONNECTIONS THAT ARE ALREADY BURIED MAY BE UTILIZED PROVIDED THEY ARE DEEMED ADEQUATE TO SERVE THE GREATER DEMAND OF EITHER THE TOTAL PROPOSED FIXTURE LOAD OR THE FIRE SPRINKLER SYSTEM.

109.1.1.2 DESIGN CONSIDERATION. NEW WATER SERVICE CONNECTIONS MAY BE DESIGNED AS 1-INCH PROVIDED THE FUTURE LOAD CAN BE PREDETERMINED AND WHERE NO SEGMENT OF THE BUILDING'S DOMESTIC OR FIRE SPRINKLER SYSTEM SHALL EXCEED 1-INCH. EXCEPT FOR PIPE STEM LOTS AND FLAG LOTS, THESE CRITERIA MUST BE MET FOR ALL MODELS AND ALL LOTS; AND THE ENTIRE COMMISSION SYSTEM EXTENSION PROJECT MUST BE DESIGNED UNIFORMLY.

109.1.2 NON-ABUTTING SERVICE CONNECTIONS. SERVICE CONNECTIONS TO A PROPERTY NOT ABUTTING DIRECTLY ON A COMMISSION WATER OR SEWER MAIN MAY BE ALLOWED UNDER CERTAIN CONDITIONS, SEE WSSC DEVELOPMENT SERVICES CODE FOR QUALIFYING FACTORS FOR NON-ABUTTING SERVICE CONNECTIONS.

109.1.3 SERVICE CONNECTION IN EASEMENT. IF THE PROPERTY TO BE SERVED IS TO BE CONNECTED TO A COMMISSION WATER OR SEWER MAIN LOCATED IN AN EASEMENT OR RIGHT-OF-WAY GRANTED BY COMMISSION, THE SERVICES SHALL BE PROVIDED UNDER THE FOLLOWING CONDITIONS:

109.1.3.1 RESPONSIBILITY. ALL NECESSARY EXCAVATION, BACKFILL, AND RESTORATION WITHIN EASEMENT OR RIGHT-OF-WAY GRANTED BY COMMISSION SHALL BE THE RESPONSIBILITY OF THE WSSC-LICENSED MASTER PLUMBER.

109.1.3.2 TRENCHING. THE MAIN SHALL BE EXPOSED AND THE TRENCH PROTECTED IN ACCORDANCE WITH ALL MOSHA REQUIREMENTS.

109.1.3.3 TAPPING. ONLY COMMISSION-AUTHORIZED PERSONNEL SHALL MAKE TAPS OR CONNECTIONS INTO COMMISSION WATER AND SEWER MAINS.

109.1.4 RECONNECTION. RECONNECTIONS TO ABANDONED BUILDING SEWERS AND WATER SERVICES SHALL BE PERMITTED PROVIDED THEY CONFORM TO APPLICABLE CODE REQUIREMENTS.

109.1.5 EXISTING WATER CONNECTION. NEW BUILDINGS UTILIZING AN EXISTING WATER SERVICE CONNECTION, WITH EITHER AN EXISTING OUTSIDE OR INSIDE WATER METER SETTING, SHALL BE REQUIRED TO RE-ESTABLISH A WATER METER SETTING, AT THE COMMISSION'S DISCRETION, WITH THE SIZE, TYPE AND LOCATION OF THE NEW WATER METER AS DESIGNATED BY THE COMMISSION.

109.1.5.1 WATER ABANDONMENT. IF AN EXISTING WATER CONNECTION IS NOT REUSED, IT SHALL BE DISCONNECTED AT THE MAIN THROUGH AN ABANDONMENT PERMIT AT THE EXPENSE OF THE PROPERTY OWNER.

109.1.6 EXISTING SEWER CONNECTION. IF A PROPERTY LINE CLEANOUT DOES NOT EXIST, NEW BUILDINGS THAT USE A PREVIOUSLY UNUSED EXISTING SEWER SERVICE CONNECTION, AND EXISTING BUILDINGS WHERE THE BUILDING SEWER IS REPLACED SHALL INSTALL A PROPERTY LINE CLEANOUT WITHIN 1-FOOT OF THE PROPERTY LINE, OR AT THE EDGE OF THE PUBLIC RIGHT-OF-WAY, OR COMMISSION EASEMENT. THE BASE CONNECTION SHALL BE A COMBINATION WYE AND ONE-EIGHTH BEND FITTING LYING ON ITS BACK. THE CLEANOUT COVER ASSEMBLY SHALL CONFORM WITH COMMISSION STANDARD DETAIL S-5.1 OR S-5.2.

109.1.6.1 SEWER ABANDONMENT. EXISTING SEWER CONNECTIONS NOT BEING REUSED SHALL BE DISCONNECTED AT THE MAIN THROUGH AN ABANDONMENT PERMIT AT THE EXPENSE OF THE PROPERTY OWNER.

109.1.7 APPLICANT BUILT SERVICE CONNECTION PERMITS. WHERE APPLICANT BUILT SERVICE CONNECTION PERMITS APPLY, A COMPLETED APPLICANT BUILT PACKAGE SHALL BE SUBMITTED AND ACCEPTED BY PERMIT SERVICES SECTION BEFORE THE FIRST PLUMBING PERMIT. WHERE APPLICANT BUILT PERMITS ARE FOR ABANDONMENT OF WATER OR SEWER SERVICE CONNECTIONS, OR BOTH, THE APPLICANT BUILT PACKAGE IS REQUIRED AT THE TIME THE APPLICANT BUILT PACKAGE IS SUBMITTED FOR NEW SERVICE.

109.2 SERVICE CONNECTIONS. EXCEPT AS PROVIDED IN SECTION 109.2.1, ONLY ONE WATER AND ONLY ONE SEWER SERVICE CONNECTION IS PERMITTED TO SERVE A LOT OR PARCEL, OR A GROUP OF LOTS AND PARCELS THAT ARE UNDER SINGLE OWNERSHIP.

109.2.1 ADDITIONAL CONNECTIONS ALLOWED OR REQUIRED. AFTER APPROVAL FROM THE COMMISSION, ADDITIONAL SERVICE CONNECTIONS SHALL BE ALLOWED OR REQUIRED AS FOLLOWS:

109.2.1.1 DETACHED GROUP R-3 OCCUPANCY BUILDINGS. FOR A DETACHED GROUP R-3 OCCUPANCY BUILDING LOCATED ON COMMON TRACT OF LAND WITH THE SAME OWNER, IF THE DETACHED BUILDING IS CONVERTED WHOLLY OR IN PART, SUBDIVIDED UNDER DIFFERENT OWNERSHIP AND SOLD, IT IS REQUIRED TO HAVE SEPARATE WATER AND SEWER SERVICE CONNECTIONS BEFORE THE SALE.

109.2.1.2 GROUP I-2, CONDITION 2 FACILITIES. GROUP I-2, CONDITION 2 FACILITIES SHALL HAVE NOT FEWER THAN TWO WATER SERVICE PIPES UNDER SECTION 609.2 OF THE IPC.

109.2.1.3 SUPERSTRUCTURES. IN BUILDINGS THAT ARE MORE THAN 420 FEET (128 M) IN BUILDING HEIGHT, NOT FEWER THAN TWO SEPARATE WATER SERVICE CONNECTIONS AND SEPARATE PIPING ON PROPERTY ARE REQUIRED IN ACCORDANCE WITH SECTION 403.3.2 OF THE IBC.

109.2.1.4 ADDITIONAL WATER SERVICES. THE CODE OFFICIAL MAY APPROVE ADDITIONAL WATER SERVICES FOR BUILDINGS, COMPLEXES OR CAMPUSES WITH A SIGNIFICANT DOMESTIC WATER OR FIRE SPRINKLER SYSTEM DEMAND. THE CODE OFFICIAL MAY APPROVE ADDITIONAL WATER SERVICES FOR BUILDINGS, COMPLEXES, OR CAMPUSES THAT HAVE SPECIAL USES THAT REQUIRE MORE THAN ONE WATER SERVICE. SUPPORTING DOCUMENTATION IS REQUIRED TO DEMONSTRATE THAT A SINGLE SERVICE IS NOT PRACTICAL OR WHERE THE LOCAL FIRE PROTECTION DESIGN OFFICIAL IS REQUIRING REDUNDANT SERVICE. WHERE SEPARATE SERVICES ARE APPROVED, METERING ARRANGEMENTS SHALL GENERATE A SINGLE COMMISSION ACCOUNT.

109.2.1.5 LAYOUT RESTRICTIONS. ADDITIONAL WATER OR SEWER SERVICE CONNECTIONS MAY BE ALLOWED WHERE PHYSICAL SITE FEATURES OR APPURTENANCES, INCLUDING THE IMPOSING FOOTPRINT OF THE BUILDING ITSELF, CREATE UNYIELDING OBSTACLES.

109.2.1.6 SEWER SERVICEABILITY. TO FACILITATE THE GREATEST AMOUNT OF GRAVITY SEWER SERVICE, ADDITIONAL SEWER SERVICE CONNECTIONS SHALL BE ALLOWED FOR BUILDINGS, COMPLEXES OR CAMPUSES WHERE DEEMED PRACTICAL AND BENEFICIAL. CONSIDERATION SHALL BE GIVEN TO THE DEPTH, SERVICEABILITY, AND STRUCTURAL IMPACT OF LONG, INSIDE RUNS OF BUILDING DRAIN.

109.2.1.7 IMMINENT SUBDIVISION AND SALE. SEPARATE SERVICE CONNECTIONS ARE REQUIRED WHEN SUBDIVISION AND SALE OF A LARGE TRACT OF LAND HAS BEGUN OR AS A CONDITION OF A GOVERNMENTAL ACTION. CONSIDERATION SHALL BE GIVEN TO MAINLINE WATER AND SEWER EXTENSIONS NEEDED TO FACILITATE THE REQUIRED SERVICE CONNECTIONS.

109.2.1.8 CONDOMINIUMS OR COOPERATIVE OWNERSHIP PROPERTIES. CONDOMINIUMS OR COOPERATIVE OWNERSHIP PROPERTIES THAT ABUT A PUBLIC WATER MAIN, ARE TOWNHOUSES, AND USE A NFPA 13D OR 13R TYPE FIRE SPRINKLER SYSTEM MAY BE SERVED WITH INDIVIDUAL COMMISSION WATER SERVICE CONNECTION OUTFITTED WITH AN OUTSIDE METER OR CURB VALVE.

109.2.2 SHARED SERVICE CONNECTIONS SERVING MULTIPLE PROPERTY OWNERS. OTHER THAN IN A GROUP R-3 OCCUPANCY, A SHARED SERVICE CONNECTION MAY BE ALLOWED WHEN MULTIPLE PROPERTIES OR BUILDINGS, ARE UNDER SEPARATE OWNERSHIP BUT LOCATED ON A COMMON TRACT OF LAND. THE ARRANGEMENT MUST BE RECORDED IN A SHARED SITE UTILITY SYSTEM AGREEMENT AND APPROVED BY A CODE OFFICIAL. THE FOLLOWING CONDITIONS SHALL BE REQUIRED FOR APPROVAL BY COMMISSION:

109.2.2.1 RECORDATION. RECORDATION OF THE NECESSARY COVENANTS AND EASEMENTS FOR MAINTENANCE OF THE SHARED SITE UTILITY SYSTEM.

109.2.2.2 OUTSIDE WATER METER. AN ACCESSIBLE OUTSIDE WATER METER FOR EACH WATER SERVICE CONNECTION. ALL COMMISSION WATER METERS SERVING THE SHARED SITE UTILITY SYSTEM SHALL BE BILLED TO A SINGLE ACCOUNT.

109.2.2.3 DESIGN. WHEN AUTHORIZED, THE SITE UTILITY SYSTEM SHALL BE DESIGNED WITH THE FEWEST NUMBER OF SERVICE CONNECTIONS.

109.2.2.4 PRIVATE METER. FURTHER DIVISION OF WATER AND SEWER BILLING OBLIGATIONS SHALL BE A PRIVATE MATTER BETWEEN THE PROPERTY OWNERS, LESSEES, AND TENANTS AND MAY BE ACCOMPLISHED THROUGH PRIVATE METERS.

109.2.3 COVENANTS. WHERE MULTIPLE PROPERTIES OR BUILDINGS UNDER SINGLE OWNERSHIP ARE SERVED BY WATER AND SEWER SERVICES CONNECTIONS AS ALLOWED OR REQUIRED, A COVENANT SHALL BE SUBMITTED FOR THE COMMISSION'S APPROVAL. THE COVENANT SHALL REQUIRE THE PROPERTY OWNER TO NOTIFY THE COMMISSION BEFORE ANY SUBDIVISION OR SALE OF ANY OR ALL OF THE PROPERTIES COVERED BY THE COVENANT. IF THE PROPERTY IS SUBDIVIDED OR SOLD, THE COVENANT MAY REQUIRE THE PROPERTY OWNER TO OBTAIN SEPARATE WATER AND SEWER CONNECTIONS OR ENTER INTO A SHARED SITE UTILITY SYSTEM AGREEMENT.

109.3 RIGHT-OF-WAY OR EASEMENT. A PROPERTY OWNER SHALL HAVE A RECORDED RIGHT-OF-WAY OR EASEMENT IF THE PROPERTY OWNER'S WATER SERVICE, SEWER SERVICE OR SITE UTILITY SYSTEM IS INSTALLED, UNDER, OVER OR THROUGH ANY PROPERTY OWNED BY ANOTHER PERSON.

109.4 FIRE SERVICE CONNECTIONS AND FIRE HYDRANTS. WATER CONNECTIONS FOR COMBINED DOMESTIC AND FIRE SERVICE, OR FOR FIRE SERVICE ONLY, SHALL BE PROVIDED UNDER SUCH CONDITIONS AS DETERMINED BY THE COMMISSION. COMBINATION WATER SERVICE IS THE PREFERRED METHOD OF SUPPLYING DOMESTIC WATER AND FIRE SPRINKLER SYSTEMS.

109.4.1 DETACHED GROUP R-3 OCCUPANCIES. CONNECTION TO THE POTABLE WATER SUPPLY SHALL BE MADE IN ACCORDANCE WITH PROVISIONS SET FORTH IN SECTION 109.2.1.8 AND CHAPTER 6, "INSTALLATION OF COMMISSION WATER METERS", SECTIONS 603 AND 604.2.2.

109.4.2 OTHER THAN GROUP R-3 OCCUPANCIES.

109.4.2.1 SYSTEMS WITHOUT FIRE HYDRANTS. FOR SYSTEMS WITHOUT FIRE HYDRANTS FOR OTHER THAN GROUP R-3 OCCUPANCIES, IF THE WATER SERVICE IS TO SERVE A FIRE SPRINKLER SYSTEM WITH NO PRIVATE FIRE HYDRANTS AND WITH INSIDE METERS, THE FIRE SPRINKLER WATER IS NOT REQUIRED TO BE METERED.

109.4.2.2 SYSTEMS WITH FIRE HYDRANTS. FOR SYSTEMS WITH FIRE HYDRANTS FOR OTHER THAN GROUP R-3 OCCUPANCIES, IF THE WATER SERVICE IS TO SERVE PRIVATE FIRE HYDRANTS OR OTHER FIRE SPRINKLER SYSTEMS OR BOTH AND AN OUTSIDE METERING SCHEME IS PERMITTED AND EMPLOYED, THE METER TYPE UTILIZED SHALL BE FM METER.

109.4.2.3 EXISTING MONITORED SYSTEMS. THE COMMISSION SHALL NOT REQUIRE FIRE SPRINKLER SYSTEMS OR FIRE HYDRANTS TO BE MONITORED, THIS INCLUDES SYSTEMS WITH EXISTING MONITORING.

109.4.2.4 WATER SUPPLIED TO FIRE PROTECTION SYSTEMS OR PRIVATE HYDRANTS. WATER SUPPLIED TO FIRE SPRINKLER SYSTEMS OR PRIVATE FIRE HYDRANTS SHALL NOT BE USED FOR ANY PURPOSE OTHER THE FIREFIGHTING OR PERIODIC SYSTEM FLUSHING AND TESTING REQUIRED BY A COUNTY OR LOCAL FIRE PROTECTION OFFICIAL. ANY OTHER UNOFFICIAL OR UNAUTHORIZED USE SHALL CONSTITUTE THEFT OF SERVICE AND BE SUBJECT TO CRIMINAL PROSECUTION OR CIVIL PENALTY UNDER SECTION 116 OF THIS CODE.

109.4.3 PRIVATE FIRE HYDRANTS. PRIVATE FIRE HYDRANTS SHALL BE PAINTED RED. THE USE OF PRIVATE FIRE HYDRANTS SHALL BE LIMITED SOLELY TO FIRE PROTECTION. ANY OTHER USE SHALL BE PROHIBITED.

109.5 METERING.

109.5.1 GENERAL. THE COMMISSION SHALL DETERMINE METER SIZE, TYPE, AND METERING SCHEMES FOR ALL COMMISSION METERS. WATER METERS SHALL BE SIZED BASED ON PLUMBING HYDRAULIC LOAD, AS SET FORTH IN SECTION 602.3. UNLESS THE CODE OFFICIAL APPROVES AN EXCEPTION, OVERSIZED METERS SHALL BE PROHIBITED. COMMISSION METERS MAY NOT BE USED TO MEASURE HOT WATER DISTRIBUTION PIPING SYSTEMS, PLUMBING FIXTURES INDIVIDUALLY, OR GROUPINGS OF FIXTURES INDIVIDUALLY.

109.5.1.1 EXISTING METERING SCHEMES. EXCEPT WHERE PROHIBITED UNDER THIS CODE, A PROPERTY MAY CONTINUE TO USE ITS EXISTING METERING SCHEME. IF A PROPERTY IS ALTERED OR NEW BUILDINGS ERECTED, THE COMMISSION MAY APPROVE THE CONTINUED USE OF AN EXISTING METERING SCHEME FOR EXISTING OR NEW BUILDINGS.

109.5.1.1.1 CONVERSION TO CONDOMINIUM (PRINCE GEORGE'S COUNTY ONLY). IN ACCORDANCE WITH STATE LAW, WHERE A PROPERTY USE IS BEING CONVERTED TO CONDOMINIUM OR COOPERATIVE OWNERSHIP OF RESIDENTIAL UNITS, THE OWNER SHALL INSTALL A COMMISSION FURNISHED INDIVIDUAL METER FOR EACH INDIVIDUAL DWELLING UNIT AND FOR THE COMMON AREAS. REFER TO SECTIONS 109.5.8.2 AND 109.5.8.3 FOR DETAILS.

109.5.2 LOCATION. UNLESS APPROVED FOR LOCATION INSIDE THE BUILDING, WATER METERS SHALL BE SET ADJACENT TO THE PROPERTY LINE OR, WHERE APPLICABLE, AT THE EDGE OF A PUBLIC RIGHT-OF-WAY OR COMMISSION EASEMENT AND RIGHT-OF-WAY. WATER METER SETTINGS AND VAULTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH COMMISSION STANDARD DETAILS.

109.5.3 RESPONSIBILITY. COMMISSION WATER METERS SHALL BE SUPPLIED AND MAINTAINED BY THE COMMISSION, SHALL REMAIN THE PROPERTY OF THE COMMISSION, AND SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 6.

109.5.4 PROTECTION. THE BUILDING OWNER IS RESPONSIBLE FOR PROTECTING COMMISSION WATER METERS FROM DAMAGE BY FREEZING OR PHYSICAL ABUSE. THE PROPERTY OWNER SHALL BE RESPONSIBLE FOR EXPENSES RELATED TO METER REPAIR, REPLACEMENT, OR LOSS DUE TO NEGLECT OR DAMAGE.

109.5.5 TAMPERING. IT SHALL BE UNLAWFUL TO TAMPER WITH A COMMISSION WATER METER, METER SEAL, BYPASS SEAL, APPURTENANCE, METER SETTING, CURB VALVE, VALVE BOX OR METER VAULT.

109.5.6 EXCEPTIONS. WITH THE EXCEPTION OF SECTIONS 109.5.6.1 AND 109.5.6.2, ALL WATER PROVIDED BY COMMISSION SHALL BE METERED.

109.5.6.1 WATER SUPPLIED TO FIRE PROTECTION SYSTEMS AND PRIVATE FIRE HYDRANTS. WATER SUPPLIED TO FIRE PROTECTION SYSTEMS AND PRIVATE FIRE HYDRANTS FOR THE PURPOSE OF FIRE PROTECTION IS NOT REQUIRED TO BE METERED BY THE COMMISSION.

109.5.6.2 MAINTENANCE OF FIRE HYDRANTS. WATER USED IN THE MAINTENANCE OF FIRE HYDRANTS, INCLUDING REPAIR, TESTING, FLUSHING, AND FLOW TESTS, IS NOT REQUIRED TO BE METERED BY THE COMMISSION.

109.5.7 METER SETTINGS AND INSTALLATION. THE COMMISSION OR ITS DESIGNEE SHALL INSTALL ALL OUTSIDE METERS. OUTSIDE METER SETTINGS FOR 3/4-INCH THROUGH 2-INCH METERS AND OUTSIDE VAULTS FOR 3-INCH AND LARGER METERS SHALL BE FURNISHED INSTALLED BY THE UTILITY CONTRACTOR. THE PLUMBER SHALL INSTALL INSIDE COMMISSION METERS SIZE 1 1/2-INCH AND LARGER. THE COMMISSION OR ITS DESIGNEE SHALL INSTALL INSIDE METERS SIZE 1-INCH AND SMALLER. SEE CHAPTER 6, "INSTALLATION OF COMMISSION WATER METERS".

109.5.8 MULTI-UNIT BUILDINGS. IN ACCORDANCE WITH STATE LAW, THE COMMISSION SHALL REQUIRE INDIVIDUAL METERING OF RESIDENTIAL DWELLING UNITS WITHIN A MULTI-UNIT CONDOMINIUM OR COOPERATIVE OWNERSHIP PROPERTY LOCATED IN PRINCE GEORGE'S COUNTY. FOR ALL OTHER MULTI-UNIT PROPERTIES, THE COMMISSION SHALL ALLOW EITHER A MASTER METER OR INDIVIDUAL METERS. WHERE INDIVIDUAL METERS ARE OPTIONED, DESIGN AND INSTALLATION SHALL MEET THE PROVISIONS SET FORTH IN SECTIONS 109.5.8.2 AND 109.5.8.3 BELOW. WHERE REQUIRED SOLELY BY THE OWNER, UNIT PRIVATE METERS SHALL BE FURNISHED, INSTALLED, AND MAINTAINED BY THE PROPERTY OWNER.

109.5.8.1 MIXED-USE BUILDINGS. WITH THE EXCEPTION OF BUILDINGS USING INDIVIDUAL METERS, WHERE MIXED-USE BUILDINGS ARE SERVED BY A SINGLE WATER SERVICE CONNECTION OR MULTIPLE SERVICE CONNECTIONS FORMING INTO A SINGLE SYSTEM ON PROPERTY, A MINIMUM OF TWO METERS SHALL BE INSTALLED, AS SET FORTH BELOW, TO ALLOW FOR THE SEPARATE REGISTERING OR COMPUTATION OF RESIDENTIAL UNIT AND COMMERCIAL UNIT WATER CONSUMPTION AT THE BUILDING. FOR CONDOMINIUM AND CO-OPERATIVE PROPERTIES LOCATED IN PRINCE GEORGE'S COUNTY, EACH RESIDENTIAL DWELLING UNIT MUST BE SEPARATELY METERED.

109.5.8.1.1 LIVE AND WORK UNITS. IN MIXED-USE BUILDINGS WHERE ONLY ONE RESIDENTIAL UNIT AND ONE COMMERCIAL UNIT ARE SERVED BY A SINGLE WATER SERVICE, THE OWNER MAY CHOOSE TO HAVE ONE OR TWO METERS. WHERE ONLY ONE METER IS INSTALLED, THE UNIT COUNT FOR BILLING PURPOSES SHALL BE ONE.

109.5.8.1.2 INSIDE METERS. WHEN A MIXED-USE BUILDING IS ALLOWED OR REQUIRED BY OTHER SECTIONS OF THIS CODE TO BE SERVED BY INSIDE METERS, THE REQUIRED METERS, ONE OR MORE TO REGISTER ONLY RESIDENTIAL UNIT WATER CONSUMPTION AND ONE OR MORE TO REGISTER ONLY COMMERCIAL UNIT WATER CONSUMPTION, SHALL BE INSTALLED INSIDE IN ACCORDANCE WITH SECTIONS 109.5.8.2 AND 109.5.8.3, AS WELL AS CHAPTER 6 OF THIS CODE.

109.5.8.1.3 OUTSIDE METERS. WHEN A MIXED-USE BUILDING IS ALLOWED OR REQUIRED BY OTHER SECTIONS OF THIS CODE TO BE SERVED BY AN OUTSIDE METER APPLICATION, THE TWO OR MORE REQUIRED METERS SHALL BE INSTALLED IN ACCORDANCE WITH CHAPTER 6 AND AS FOLLOWS: ONE METER SHALL BE INSTALLED OUTSIDE ON THE WATER SERVICE CONNECTION TO REGISTER ALL CONSUMPTION ON-PROPERTY. OTHER METERS SHALL BE INSTALLED INSIDE TO REGISTER THE COMMERCIAL UNIT WATER CONSUMPTION ONLY SO THAT THE DIFFERENCE BETWEEN THE OUTSIDE METER AND THE INSIDE METER READINGS REPRESENTS THE RESIDENTIAL UNIT WATER CONSUMPTION AT THE BUILDING. THIS ARRANGEMENT IS NOT PERMITTED WHERE INDIVIDUAL RESIDENTIAL DWELLING UNIT METERING IS EITHER REQUIRED OR CHOSEN.

109.5.8.2 INDIVIDUAL METERS. WHERE INDIVIDUAL METERS FOR MULTI-UNIT PROPERTIES IS USED, EACH RESIDENTIAL DWELLING UNIT SHALL BE SUPPLIED WITH AN INDIVIDUAL COLD WATER MAIN SUPPLY PIPE, COMMISSION METER, AND SEPARATELY BILLED ACCOUNT. COLLECTIVELY, ALL BUILDING PIPING, INCLUDING ANY OTHER WATER USES THROUGHOUT THE BUILDING SHALL BE ARRANGED AS FOLLOWS:

109.5.8.2.1 NO COMBINATION OF MASTER AND INDIVIDUAL METERS. NO COMBINATION OF MASTER METERS WITH INDIVIDUAL UNIT METERS IS PERMITTED (NOT ALLOWED AS AN OPTION AND WILL NOT BE SUPPORTED BY THE COMMISSION BILLING SYSTEM).

109.5.8.2.2 COMMON AREAS. COMMON AREAS SHALL BE INDEPENDENTLY METERED WITH A SEPARATE ACCOUNT, INDIVIDUAL METER, AND SHUT-OFF VALVE.

109.5.8.2.3 SUBMETERS. FOR BUILDINGS WITH INDIVIDUAL METERS, AN INDIVIDUAL METER SHALL BE USED IN LIEU OF A SUBMETER FOR DETERMINING SEWER CREDITS. AN INDIVIDUAL METER FOR EACH USE AND MAY NOT BE ARRANGED AS A SUBMETERED USE TO ANY OTHER DWELLING UNIT OR USE WITHIN THE PROPERTY.

109.5.8.2.4 ADDITIONAL SEPARATE METERING. WHERE COMMERCIAL UNITS (MIXED-USE BUILDINGS) ARE INCLUDED, ADDITIONAL METERING IS REQUIRED SEPARATE FROM THE RESIDENTIAL DWELLING UNITS AND COMMON AREAS OR AMENITIES. SEE ALSO SECTION 109.5.8.1. THIS SECTION MAY BE SATISFIED BY USING ONE METER FOR ALL COMMERCIAL UNITS. WHERE INDIVIDUAL COMMERCIAL UNIT METERING IS OPTIONED, DESIGN AND INSTALLATION SHALL COMPLY WITH SECTION 109.5.8.3.

109.5.8.3 CENTRALIZED METER ROOM. IN ALL CASES WHERE INDIVIDUAL MULTI-UNIT METERING IS UTILIZED, A CENTRALIZED METER ROOM OR ROOMS SHALL BE PROVIDED FOLLOWING THE PROVISIONS SET FORTH IN SECTION 604 AND AS DETAILED AS FOLLOWS:

109.5.8.3.1 SMALL BUILDINGS. BUILDINGS UP TO THREE FLOORS OR 25,000 GROSS SQUARE FEET (2,322 SQUARE METERS) SHALL BE OUTFITTED WITH A CENTRAL METER ROOM, EQUIPPED WITH A LOCKABLE DOOR ACCESSIBLE DIRECTLY FROM THE EXTERIOR OF THE BUILDING.

109.5.8.3.2 LARGE BUILDINGS. BUILDINGS GREATER THAN THREE FLOORS OR 25,000 GROSS SQUARE FEET (2,322 GROSS SQUARE METERS) SHALL BE OUTFITTED WITH A CENTRAL METER ROOM, EQUIPPED WITH A LOCKABLE DOOR. ADDITIONAL CENTRAL METER ROOMS ARE SUBJECT TO COMMISSION APPROVAL AND WILL BE CONSIDERED ON A PER WING, FLOOR, OR AREA BASIS. WHERE DIRECT ACCESS IS PRACTICAL, IT SHALL BE PROVIDED.

109.5.8.3.3 FLOOR DRAINS. EACH METER ROOM SHALL CONTAIN ONE OR MORE FLOOR DRAINS WITH A MINIMUM SIZING AS FOLLOWS:

1 – 6 METERS	**=**	**2-INCH FLOOR DRAIN**
7 – 12 METERS	**=**	**3-INCH FLOOR DRAIN**
13 METERS OR GREATER	**=**	**4-INCH FLOOR DRAIN**

109.5.8.3.4 SHUTOFF VALVE. ONE SHUTOFF VALVE WITHIN EACH INDIVIDUAL METER PIPING ASSEMBLY SHALL BE A TAMPER RESISTANT AND LOCKABLE TYPE BALL VALVE. WHERE AN NFPA 13D OR 13R FIRE SPRINKLER SYSTEM IS UTILIZED, THE LOCKABLE VALVE SHALL BE DOWNSTREAM OF THE FIRE SPRINKLER SUPPLY TEE AND SERVE ONLY THE MAIN DOMESTIC WATER.

109.5.8.3.5 IDENTIFICATION. EACH INDIVIDUAL METER PIPING ASSEMBLY SHALL BE IDENTIFIED WITH AN AFFIXED PERMANENT TAG, PLACARD, OR LABEL DEPICTING THE UNIQUE UNIT, SUITE, OR ADDRESS SERVED BY THAT METER. ALL RELATED DISTRIBUTION PIPING, INCLUDING CONCEALED PIPING, SHALL ALSO BE IDENTIFIED OR LABELED EVERY 25 FEET (7,620 MM) AND WITHIN 5 FEET (1,524 MM) OF EACH SIDE OF A FLOOR OR WALL PENETRATION.

109.5.8.3.6 REQUIRED LOCKED DOORS. WHERE CENTRAL METER ROOMS OPEN DIRECTLY TO THE OUTDOORS, THE LOCKING MECHANISM SHALL BE A FOUR-DIGIT COMBINATION LOCK AND THE LOCK CODE SHALL BE THE SAME FOR ALL BUILDINGS WITHIN A COMPLEX. THE LOCK CODE SHALL BE PROVIDED TO THE COMMISSION'S METER SERVICES PERSONNEL DURING THE INITIAL METER SETTING AND VERIFICATION WORK ORDER AND UPDATED LOCK CODES SHALL BE COMMUNICATED PROMPTLY TO THE COMMISSION'S CUSTOMER SERVICES DEPARTMENT.

109.5.8.3.7 EXCEPTION. PROPERTIES THAT ABUT A PUBLIC WATER MAIN, ARE CONSTRUCTED AS ROW-STYLE TOWNHOMES (ONE UNIT FROM BOTTOM TO TOP) AND USE AN NFPA 13D OR 13R TYPE FIRE SPRINKLER SYSTEM MAY BE SERVED WITH INDIVIDUAL COMMISSION WATER SERVICE CONNECTION OUTFITTED WITH AN OUTSIDE METER OR CURB VALVE WITH INSIDE METER.

109.5.9 COMMISSION SUBMETER. EXCEPT AS PROVIDED IN SECTION 109.5.8.2.3 AND AS OTHERWISE ALLOWED BY LAW, WHERE WATER FURNISHED BY THE COMMISSION IS USED FOR PURPOSES WHERE NONE OF THE WATER THAT PASSES THROUGH THE SUBMETER ENTERS THE COMMISSION'S SEWERAGE SYSTEM, THE OWNER MAY REQUEST THE INSTALLATION OF A COMMISSION SUBMETER. SEE PUBLIC UTILITIES ARTICLE, SECTION 25-502 THROUGH 25-504.

109.5.9.1 PIPING ARRANGEMENT. IN CASES WHERE A COMMISSION SUBMETER IS THE SAME SIZE AS THE CORRESPONDING COMMISSION INSIDE MAIN METER, THE PIPING SHALL BE DESIGNED AND INSTALLED TO ACCOMMODATE EACH METER IN PARALLEL TO THE OTHER AND EACH METER SHALL BE SIZED PER TABLE 602.1. COMMISSION SUBMETERS SHALL BE INSTALLED ON THE UPSTREAM, POTABLE SIDE OF AN ISOLATION TYPE BACKFLOW PREVENTER.

109.5.9.2 ESTABLISHED CREDITS. THE FOLLOWING REPRESENTS ESTABLISHED CREDIT VALUES FOR VARIOUS SUBMETER APPLICATIONS WHERE ALL OR A PORTION OF THE REGISTERED WATER CONSUMPTION DOES NOT DISCHARGE TO THE COMMISSION SANITARY SEWER SYSTEM:

109.5.9.2.1 IRRIGATION. 100% SEWER CREDIT FOR IRRIGATION, OUTDOOR HOSE BIBBS, WALL HYDRANTS, YARD HYDRANTS, AND SIMILAR OUTDOOR ONLY WATER USES.

109.5.9.2.2 COOLING TOWERS WITH DISCHARGE PERMIT. 100% SEWER CREDIT FOR COOLING TOWERS WITH AN APPROVED DISCHARGE PERMIT FROM THE MARYLAND DEPARTMENT OF THE ENVIRONMENT. NO PROVISIONS FOR ANY PORTION OF THE SUBMETERED WATER TO BE DISCHARGED TO THE SANITARY SEWER SYSTEM INCLUDING AUTO-MECHANICAL BLOW-OFF FOR THE INTRODUCTION OF FRESH WATER AND CHEMICAL OR DISINFECTION TREATMENTS.

109.5.9.2.3 COOLING TOWERS TO SANITARY SEWER. 73% SEWER CREDIT FOR COOLING TOWERS WITH DRAIN OR ANY MECHANICAL LOOP PIPING ROUTED TO SANITARY SEWER INCLUDING AUTO-MECHANICAL FOR THE INTRODUCTION OF FRESH WATER AND CHEMICAL OR DISINFECTION TREATMENTS.

109.5.9.2.4 LAUNDRIES. 25% SEWER CREDIT FOR COMMERCIAL AND INDUSTRIAL LAUNDRIES.

109.5.9.2.5 REQUESTED CREDIT. A COMMERCIAL, INDUSTRIAL, OR MULTI-RESIDENTIAL PROPERTY MAY REQUEST A COMMISSION SUBMETER AND CREDIT BASED ON A FORMULA DETERMINED BY THE COMMISSION. THE FORMULA DETERMINED BY THE COMMISSION SHALL BE CONSISTENT WITH MANUFACTURERS' ENGINEERING STANDARDS FOR THE CLASS OF EQUIPMENT USING THE SEPARATELY METERED WATER SUPPLIED BY THE COMMISSION; OR INDUSTRY STANDARDS FOR THE CLASS OF OPERATIONS USING THE SEPARATELY METERED WATER SUPPLIED BY THE COMMISSION. CUSTOMER MAY BE REQUIRED TO PROVIDE ENGINEERING ANALYSIS TO COMMISSION. APPLICATION FOR SEWER CREDIT SHALL BE SUBMITTED TO THE COMMISSION'S CUSTOMER RELATION DEPARTMENT FOR REVIEW AND APPROVAL.

109.5.10 SEWER-ONLY ACCOUNTS. WHEN A BUILDING CLASSIFICATION OTHER THAN GROUP R-3 OCCUPANCY USING A PRIVATE WATER SUPPLY SYSTEM IS CONNECTED TO THE COMMISSION SEWERAGE SYSTEM, A COMMISSION METER SHALL BE INSTALLED ON THE WATER SUPPLY TO DETERMINE THE SEWER USE CHARGE. AT THE COMMISSION'S DISCRETION, GROUP R-3 OCCUPANCIES SERVED AS ABOVE SHALL BE BILLED BASED ON A FLAT RATE OR USING AN EFFLUENT METER.

109.5.11 FIRE HYDRANT METERS. THE COMMISSION MAY AUTHORIZE USE OF A FIRE HYDRANT METER TO APPLICANTS REQUIRING WATER FOR TEMPORARY USE. FIRE HYDRANT METERS SHALL HAVE BACKFLOW PREVENTION ACCORDING TO SECTION 506.7.1. FIRE HYDRANT METER USE SHALL BE RESTRICTED TO TEMPORARY OR SEASONAL APPLICATIONS INCLUDING TANK TRUCK FILLING, TEMPORARY WATER FOR CONSTRUCTION SITES, SPECIAL EVENTS (E.G., CHARITY WALKS, FAIRGROUNDS), AND SEASONAL USES (E.G., IRRIGATION). FIRE HYDRANTS SHALL NOT BE USED TO CIRCUMVENT THE NEED TO OBTAIN SERVICE CONNECTIONS TO SUPPLY WATER TO FULL-TIME BUSINESSES, NURSERIES

WITH RETAIL AND MAINTENANCE BUILDINGS, AND SIMILAR APPLICATIONS. SUCH APPLICATIONS SHALL REQUIRE A PERMANENT SERVICE CONNECTION.

109.6 CONTAINMENT. ALL BUILDINGS SHALL HAVE CONTAINMENT BACKFLOW PREVENTER INSTALLED ON THE OUTLET SIDE OF THE WATER METER, BEFORE WATER USES WITHIN THE PREMISE, AS CITED IN SECTION 502.3 OF THIS CODE. BACKFLOW PREVENTERS SHALL BE MAINTAINED BY THE OWNER AS CITED IN SECTION 102.3.10.

SECTION [107]110 TEMPORARY USES, EQUIPMENT[,] AND SYSTEMS [AND USES]

[107.1]110.1 General. The Code Official is authorized to issue a permit for temporary **USES,** equipment**[,] AND** systems **[**and uses**]**. Temporary permits shall be limited as to time of service, but shall not be permitted for more than 180 days. The Code Official is authorized to grant extensions for demonstrated cause.

[107.2]110.2 Conformance. Temporary **USES,** equipment**[,] AND** systems **[**and uses**]** shall conform to the **[**structural strength, fire safety, means of egress, accessibility, light, ventilation and sanitary**]** requirements of this Code and any other applicable code or **[**AHJ**]ANY AUTHORITY HAVING JURISIDICTION** as necessary to ensure the **[**public**]** health, safety and general welfare.

[107.3]110.3 Temporary connection. The Code Official shall have the authority to authorize the temporary connection of:

a. The building or system to the utility source for the purpose of testing plumbing systems; or
b. An installation to the sources of energy for the purpose of testing the installation, or for use under a temporary certificate of occupancy.

SECTION [108]111 INSPECTIONS AND TESTING

[108.1]111.1 General. Plumbing, fuel gas, and site utility installations requiring a permit shall require inspection and approval by the Commission for each phase of work outlined herein, and in accordance with applicable model code requirements.

[108.1.1]111.1.1 Federal property exempt. See Section 102.8.

[108.2]111.2 Licensee responsibility.

[108.2.1]111.2.1 General.

[108.2.1.1]111.2.1.1 Scheduling. The licensee shall be responsible for **[**scheduling all inspections, or**]** ensuring that all inspections have been scheduled**[**. Short Form Permits may be scheduled for inspection by the licensee, the property owner, or the owner's agent; however, this accommodation shall not relieve the licensee from the responsibility for scheduling the inspection**]** and ensuring inspection approval.

111.2.1.1.1 SCHEDULING OF A LONG FORM PERMIT INSPECTION. INSPECTIONS FOR LONG FORM PERMITS SHALL BE SCHEDULED BY THE LICENSEE.

111.2.1.1.2 SCHEDULING OF A SHORT FORM PERMIT INSPECTION. INSPECTIONS FOR SHORT FORM PERMITS MAY BE SCHEDULED BY THE LICENSEE, THE PROPERTY OWNER, OR THE OWNER'S AGENT.

111.2.1.1.13 NOTIFICATION. THE PERSON WHO SCHEDULES AN INSPECTION IS RESPONSBILE FOR NOTIFYING THE OWNER OR THE OWNER'S AGENT, AND ANY TENANTS, OCCUPANTS, AND OTHER PERSONS WHO WILL BE PRESENT FOR THE INSPECTION, OF THE DATE AND SCOPE OF THE INSPECTION.

[108.2.1.2]111.2.1.2 Cancellations. The licensee shall be responsible for all inspection cancellations.

[108.2.1.3]111.2.1.3 Approved plans on project site. On buildings requiring approved construction documents, a WSSC-Licensed Master Plumber or Gasfitter or WSSC-Licensed Journeyman Plumber or Gasfitter shall be present at the project site and shall provide the approved construction documents including modifications. The master or journeyman licensee shall be appropriately licensed for the scope of work being inspected; either plumbing, gasfitting, or both. The WSSC-Licensed Plumber or Gasfitter shall have the approved construction documents printed and provided on the project site for the inspector's use to document the project's progress and incremental inspection results.

[108.2.1.4]111.2.1.4 Licensee supervision. All Commission principal licensees shall be available for consultation with the Code Official and for supervision of work installed under their license. When required by the Code Official, the principal licensee**, OR A LICENSED PROXY APPROVED BY CODE OFFICIAL,** shall attend the inspection.

[108.2.1.5]111.2.1.5 Gas connection. Fuel gas piping may be connected to the service meter assembly, twin-stage regulator or second stage pressure regulator, but shall not be activated until the Commission's fuel gas close-in inspection has been approved.

[108.2.1.6]111.2.1.6 Concealment. No piping shall be covered or concealed before inspection and approval by the Code Official, except as set forth in Sections [108.2.1.10]111.2.1.10 and [108.2.1.11]111.2.1.11. Only an approval sticker or tag, signed by the Code Official, shall indicate an approved installation.

[108.2.1.7]111.2.1.7 Tests. Tests that are required on piping systems shall be made ready for inspection verification before the arrival of the Code Official to the project site.

[108.2.1.8]111.2.1.8 Tags provided by Commission. As a courtesy, the Commission may provide tags, such as hose bibb maintenance tags, testable backflow prevention assembly test tags and non-testable backflow prevention device notice tags, to Commission customers and their contracted plumbers. As such, they are not permitted to be used outside of the Sanitary District. Any abuse of this privilege may lead to the courtesy being revoked.

[108.2.1.9]111.2.1.9 Failed inspections. [For Short Form Permits, installations]**INSTALLATIONS** that fail inspection shall be corrected and **REINSPECTED. FOR SHORT FOR PERMITS,** a resinpection **SHALL BE SCHEDULED AND THE** fee shall be paid [and scheduled under]**IN ACCORDANCE WITH** Section [109.7]108.7. For Long Form Permits, [installations that fail inspection shall be corrected,] the Code Official may require a [resinpection]**REINSPECTION** fee **AND THE REINSPECTION** shall be [and scheduled under]**SCHEDULED AND THE FEE SHALL BE PAID IN ACCORDANCE WITH** Section [109]108.

[108.2.1.10]111.2.1.10 Self-certification, plumbing work. When authorized in advance by the Code Official, the licensee may self-inspect the work, in lieu of an inspection by the Code Official, and certify that the work meets requirements set forth in this Code. It shall be the licensee's responsibility to ensure that all self-inspected work has been authorized by the Code Official. Self-inspected work shall be subject to inspection by the Code Official at any time.

[108.2.1.11]111.2.1.11 Self-certification, gasfitting work. With the exception of Section [108.2.1.11.1]111.2.1.11.1, gasfitting work shall not be self-certified.

[108.2.1.11.1]111.2.1.11.1 Exception for self-certification, gasfitting work. Subject to preapproval by the Code Official, the serving gas utility may self-certify the installation of outdoor gas lights, modification of customer piping in connection with outside meter relocation, and similar outdoor work.

[108.2.1.12]111.2.1.12 Minor site utility systems. Minor site utility systems shall be recognized as building sewer and building water service and shall require a plumbing permit, shall be installed according to this Code, and shall be installed by a WSSC-Licensed Master Plumber. These systems shall be inspected in accordance with the approved plan and this Code.

[108.2.1.13]111.2.1.13 Site utility systems. For site utility systems, not minor site utility systems, the plumber's responsibility shall begin at and include the final connection to site utility system on the approved site utility system. Site utility piping shall be installed and inspected under provisions set forth in the approved site utility system plan and within the Development Services Code.

[108.2.2]111.2.2 Inspection timeframe. It shall be the licensee's responsibility to have work inspected in a timely manner and to ensure that the work has passed inspection as follows:

[108.2.2.1]111.2.2.1 Permits, general. Upon completion of each work phase, and before concealment where applicable.

[108.2.2.2]111.2.2.2 Short Form Permit. Subject to Sections [106.7.2]105.7.2 and [106.7.3]105.7.3, an inspection shall be completed within 10 business days of installation and before concealment where applicable.

[108.2.2.3]111.2.2.3 Site Utility Permit. Before the plumbing final inspection.

[108.2.3]111.2.3 Jobsite entry and access. The licensee shall be responsible for ensuring entry and access to the project site or inspection location. The inspection may be cancelled by the Code Official and a reinspection fee required if the following requirements are not met:

[108.2.3.1]111.2.3.1 Street sign. A sign with the street name, as listed on the permit, and clearly visible from a vehicle, shall be posted at the nearest intersection.

[108.2.3.2]111.2.3.2 Lot and block posting. Lot and block numbers, or street address, as listed on the permit, shall be posted on every building scheduled for inspection so as to be clearly visible from a vehicle. Letters and numbers

shall be a minimum of 8 inches (203 mm) high. On an existing building and on final inspections, the building address, as listed on the permit and clearly visible from a vehicle, shall be acceptable in lieu of the lot and block posting.

[108.2.3.3]111.2.3.3 Vehicle access. The licensee shall provide vehicular access to within 200 feet (60 m) of the inspection location.

[108.2.3.4]111.2.3.4 Foot traffic safety. Foot traffic access meeting OSHA and MOSHA safety standards shall be provided from the parking area to the point of inspection.

[108.2.3.5]111.2.3.5 Ladder safety. Where access to the inspection site requires use of a ladder, a manufactured type of ladder in sound condition, meeting OSHA and MOSHA safety standards, shall be provided by the licensee.

[108.2.3.6]111.2.3.6 License responsibility. The licensee shall alert the Code Official to any unique known or concealed hazards that may pose risk to the Code Official, other personnel, or result in property damage.

[108.3]111.3 Code Official responsibility and inspection criteria.

[108.3.1]111.3.1 Timely inspections. In general, the Code Official shall provide a timely inspection following established procedures on installations that have been properly permitted and scheduled in advance.

[108.3.2]111.3.2 Backlogged inspections. Inspections that cannot be completed due to the Code Official's workload, weather conditions, or other circumstances, shall be backlogged on a priority basis and shall be automatically rescheduled by the Code Official for the next available workday.

[108.3.3]111.3.3 Inspection stickers. The Code Official shall notify the licensee of inspection status through the posting at the project site of a signed sticker or tag, specific to the work installed, indicating passed/"approved" or failed/"disapproved" inspection status.

[108.3.4]111.3.4 Failed inspections. A scheduled inspection for work that is not in compliance with this Code shall fail and shall be so designated by the posting of a red "disapproved" sticker. A failed inspection shall be recorded in the Commission's ePermitting system. The reasons for failure or code sections with which work is in noncompliance shall be listed on the sticker. Failed inspections shall be charged a reinspection fee according to Sections [108.2.1.9]111.2.1.9 and [109.7]108.7.

[108.3.5]111.3.5 Partial inspections. On larger installations, a "partial" sticker shall be posted at the project site indicating that part of a construction phase has passed inspection. The approval plans shall be made available at the project site for similar notation.

[108.3.6]111.3.6 Inspection result notification. Except as provided for in Sections [108.3.3]111.3.3 and [108.3.4]111.3.4, the Code Official shall not be responsible for contacting the licensee when an inspection has failed, and the Code Official shall not be responsible for redesigning systems or preparing checklists.

[108.3.7]111.3.7 Emergency inspections. Weekend, holiday, and after-hours emergency inspections shall be performed only after prior notification and prior approval by the Chief Code Official or the Chief Code Official's designee. Examples of emergencies include the following: fuel gas repairs where building occupants are without heat in extremely cold weather, fuel gas repairs in multi-family complexes, water service repairs in freezing weather, and repairs to deeply buried piping in highly populated areas or where project site conditions pose an imminent threat to public safety.

[108.4]111.4 Inspections by work phase. Each phase of plumbing or fuel gas installation shall require inspections as outlined below.

[108.4.1]111.4.1 Required plumbing inspections.

[108.4.1.1]111.4.1.1 Sewer. Building sewers shall be inspected from the point of connection to the building drain to the point of connection at the service connection, septic tank, or other point of disposal. Critical inspection factors shall include trenching, bedding, depth, slope, appurtenances and materials. Outdoor low pressure sewer system located on private property shall be considered as part of the building sewer inspection.

[108.4.1.2]111.4.1.2 Water service. With the exception of Section [108.4.1.2.1]111.4.1.2.1, building water services shall be inspected from the service valve to the point of connection at the service connection, well casing, or other source of supply. Critical inspection factors shall include, trenching, bedding, depth, separation from other utilities, appurtenances, and materials. Mechanical joint water services shall be subject to additional requirements particular to that piping; see the Commission's Development Services Code.

[108.4.1.2.1]111.4.1.2.1 Well service line. A Maryland licensed well driller may install a well service line from a well casing to the main water service valve, including pressure tank and controls without a plumbing permit or inspection.

[108.4.1.3]111.4.1.3 Groundwork. A groundwork inspection shall include drainage and vent piping below grade inside of buildings, the building drain, and below grade water distribution systems. Critical inspection factors shall include the following: trenching; bedding; slope; sizing; piping tie-downs, hangers, and supports; materials; sewage ejectors; capping or plugging; and required tests. If a water distribution system is installed below grade, it shall be scheduled as a water groundwork inspection.

[108.4.1.4]111.4.1.4 Close-in. A close-in inspection shall include all water and sewer rough-in. Critical inspection factors shall include slope, piping support, sizing, materials, built-in fixtures, fixture carriers, capping or plugging, piping protection, and required tests. Where applicable, a hung groundwork (building drain and building drain branches that are installed overhead or anywhere above the slab due to the building drain exiting the building through the foundation wall rather than below the slab and footing) shall be installed as a part of the close-in inspection. A field fabricated shower liner or a lined floor for any other purpose shall not require a close-in inspection. The installer shall be responsible for the integrity and leak tight nature of the installer's installation. The installation shall meet IPC Section 421.5 and the applicable manufacturer's installation instructions; testing requirements set forth in this Code and within the applicable manufacturer's instructions shall be followed by the installer and are not subject to inspection by a Code Official.

[108.4.1.5]111.4.1.5 Final. A final inspection shall include all required plumbing fixtures and appliances, appurtenances, and gas appliances; hot water to fixtures; fixtures clean, undamaged, secure, and operating properly; no leaks; no water hammer; mechanical equipment properly installed; backflow preventers in place; **CROSS-CONNECTION TEST REPORT FORMS PRINTED FROM THE COMMISSION'S TEST REPORT SYSTEM, INCLUDING TEST REPORT NUMBER;** and all tests completed. On factory-built housing or in buildings with factory-built plumbing cores, the installation shall have a state of Maryland inspection sticker. With the exception of modular buildings, a smoke test in presence of the Code Official shall be required, see IPC Section 312.4. For modular buildings, a peppermint test in the presence of the Code Official shall be required for the drainage and venting system. Consult with Code Official for peppermint test procedures.

[108.4.1.6]111.4.1.6 Meter pick-up authorization. On buildings requiring an inside meter setting 1 1/2-inch or larger, a separate inspection shall be scheduled for meter pick-up authorization. Critical inspection factors shall include the following: sizing in accordance with the permit and Commission's right-sizing policy, freeze protection, required area and access, provisions for testing, release of Commission-owned systems; and adherence to Commission standard details.

[108.4.1.7]111.4.1.7 System development charge inspections. The applicant is responsible for accuracy of the plumbing permit, including the listing of the proposed fixtures on permit application and permit amendments. The Code Official may revise the permit before permit issuance and may direct applicant to submit permit amendment for permit changes required after issuance of permit. A final inspection shall not be approved by the Code Official unless the permit accurately reflects completed work and all required fees are paid.

[108.4.2]111.4.2 Required gas inspections. All gasfitting and fuel gas-fired equipment installations shall be subject to a gasfitting close-in and a gasfitting final inspection. On limited installations, particularly those completed under a Short Form Permit, both inspections shall be completed simultaneously as a gasfitting final inspection.

[108.4.2.1]111.4.2.1 Gas close-in. Gas piping, from the point of delivery to the equipment shutoff valve, shall be tested. Masonry chimneys and metal vents that are to be concealed shall also be a part of this inspection. Critical inspection factors for piping shall include the following: sizing; materials and supports; welder's certification; marking; labeling; clearances and other safety items; trenching; bedding and depth, where applicable; and use of appropriate tests and test equipment. Critical inspection factors for vents shall include sizing; materials and supports; clearances; existing masonry vents cleaned or relined, if required; and installation in accordance with the manufacturer's installation requirements.

[108.4.2.2]111.4.2.2 Gas final. This inspection shall focus primarily on proper installation and operation of equipment and final connections to the gas supply and venting system. Critical inspection factors shall include the following: gasfitting close-in approval; equipment installation, protection, accessibility, and clearances; combustion and make-up air; manufacturer's instructions on the jobsite; and performance of a complete operational firing sequence, when required.

[108.4.2.3]111.4.2.3 Temporary LP-gas service. Gas supply systems that are designed and installed for use with natural gas, but will be operated temporarily with LP-gas, shall be tested and inspected in the same manner as natural gas.

[108.5]111.5 Minor site utility systems. Minor site utility water and sewer piping and appurtenances shall be installed by a WSSC-Licensed Master Plumber. These systems shall be inspected in accordance with procedures outlined in Sections [108.4.1.1]111.4.1.1 and [108.4.1.2]111.4.1.2 and any conditions set forth on the approved minor site utility plan.

[108.6]111.6 Emergency inspections. See Section [108.3.7]111.3.7.

[108.7]111.7 Special plumbing inspections. Special inspections of alternative engineered design plumbing systems shall be conducted in accordance with Sections [108.7.1]111.7.1 and [108.7.2]111.7.2.

[108.7.1]111.7.1 Periodic inspection. The Maryland Professional Engineer or designated inspector shall periodically inspect and observe the alternative engineered design to determine that the installation is in accordance with the approved construction documents. All discrepancies shall be brought to the immediate attention of the plumbing contractor for correction. Records shall be kept of all inspections.

[108.7.2]111.7.2 Written report. The Maryland Professional Engineer shall submit a final report in writing to the Code Official upon completion of the installation, certifying that the alternative engineered design conforms to the approved construction documents. A notice of approval for the plumbing system shall not be issued until this written report has been submitted.

[108.8]111.8 Testing. Installations shall be tested as required in this Code. Plumbing and fuel gas work shall be tested as required in the respective sections of the IPC and IFGC. Tests shall be made by the licensee and observed by the Code Official.

[108.8.1]111.8.1 New, altered, extended, replaced or repaired systems. New plumbing and fuel gas systems and parts of existing systems that have been altered, extended, replaced or repaired shall be tested as prescribed herein to disclose leaks and defects.

[108.8.2]111.8.2 Apparatus and labor for tests. Apparatus, equipment, instruments, material and labor required for testing an installation or part of an installation shall be furnished by the licensee.

[108.8.3]111.8.3 Reinspection and testing. Where any work or installation does not pass an initial test or inspection, the necessary corrections shall be made in order to achieve compliance with this Code. The work or installation shall then be resubmitted for inspection and testing, and reinspection fees paid where applicable. See Section [109.7]108.7.

[108.9]111.9 Coordination of inspections. When in the enforcement of this Code or another Code or ordinance, and where the responsibility of more than one Code Official of this jurisdiction is involved, or if more than one authority having jurisdiction (AHJ) is involved, it shall be the duty of the Code Officials involved to coordinate their inspections and administrative orders with other AHJs as fully as practical so that the owners and occupants of the structure shall not be subjected to visits by numerous inspectors or multiple or conflicting orders.

[108.10]111.10 Approval. After the prescribed tests and inspections indicate that the work complies with this Code, an "approved" sticker or tag shall be issued by the Code Official.

[SECTION 109 FEES]

[109.1 Payment of fees. A permit shall not be issued until all applicable fees have been paid, and an amendment to a permit shall not be released until the additional fee, if any, due to an increase of the plumbing, fuel gas, or site utility systems, has been paid.

109.1.1 Insufficient funds. In cases where funds are insufficient in check and electronic fund transfers, the applicant shall pay for associated costs incurred by the Commission in addition to the required fees. The Commission reserves the right to require the applicant to pay with cash only for a period of 180 days after the date it receives notice of that funds were insufficient in check or electronic fund transfers.

109.2 Fee schedule. The permit fees for all plumbing, gasfitting, and site utility work, as well as system development charge (SDC) fees or other impact fees, if any, shall be as indicated in separate fee schedules published by the Commission.

109.2.1 Accuracy of fixture count. The permit applicant is required to submit an accurate fixture count on permit applications. The Commission is not responsible for the accuracy of fixture count at the time of issuance of permit.

109.2.2 Interpretation of fixture codes and descriptions. The permit applicant and licensee are responsible for properly representing the building use and the delineation of plumbing fixtures and equipment, for both residential and for non-residential use. Applicants shall refer questions regarding fixture codes and descriptions, or SDC fees to permit services.

109.3 Work commencing before permit issuance. Any person who commences any work on a plumbing, fuel gas, or site utility system before obtaining the necessary permits shall be subject to penalties and under Section 115.

109.4 Related fees. The payment of the fee for the construction, alteration, removal or demolition for work done in connection to or concurrently with the work authorized by a permit shall not relieve the applicant or holder of the permit of other fees that are prescribed by law.

109.5 Fee refunds. Except as otherwise provided in Public Utilities Article, Annotated Code of Maryland, the Commission shall authorize the refunding of fees, no later than 180-days after the date of permit cancellation, expiration, or final inspection, whichever is last, as follows:

109.5.1 Erroneous payment. The full amount of any fee paid that was erroneously paid or collected.

109.5.2 Permit cancelled. With the exception of Short Form Permits, when no work has been performed and no inspections have taken place and a permit is cancelled, all Commission inspection fees and SDC fees shall be refunded to the payee less the Commission's permit refund fee for current fiscal year. Short Form Permit fees shall not be refunded.

109.6 System development charge fixture credit. In cases where a building is being demolished or renovated, an SDC fixture credit shall be allowed for existing plumbing fixtures that will be removed. Before the credit is issued, a fixture credit permit shall first be obtained and the fixtures to be removed shall be verified by the Code Official.

109.7 Reinspection fees. Reinspection requests shall not be scheduled until the fee for reinspection is paid.

109.7.1 Procedures. For Short Form Permits, the licensee shall pay reinspection fee and reschedule inspection. For Long Form Permits, the licensee, or homeowner in the case of homeowner's permit, shall purchase a Short Form Permit for the purpose of paying reinspection fee and scheduling inspection. The original Long Form Permit and the additional reinspection Short Form Permit purchased for reinspection shall be scheduled for inspection at the same time.**]**

[SECTION 110 CONSTRUCTION DOCUMENTS]

[110.1 Construction documents. With the exception of Section 110.1.1, construction documents, plans, engineering calculations, diagrams and other such data shall be submitted electronically to the Commission's ePlan review system with each application for a Long Form Permit or for a Short Form Permit when required by the Code Official. Construction documents shall be drawn to scale and shall be of sufficient clarity to indicate the location, nature and extent of the work proposed and show in detail that the work conforms to the provisions of this Code.

110.1.1 Waive submission of construction documents. The Code Official shall have the authority to waive the submission of construction documents, calculations or other data if the nature of the work applied for shall be such that reviewing of construction documents shall not be necessary to determine compliance with this Code. In general, construction documents shall not be required for the following,

- **a.** Group R-3 occupancy
- **b.** Commercial work that meets all of the following,
  - **i.** With 10 or fewer cumulative proposed plumbing and gas fixtures on permit.
  - **ii.** With 3 or fewer proposed gas fixtures on permit, served by a dedicated source, with an input rating of less than 200,000 Btu/h (58 KW) each.
  - **iii.** Without FOG abatement.
  - **iv.** Without industrial or special waste.

If a project has a cumulative total of more than 10 items, an authorized permit applicant shall not be allowed to use multiple permits in order to meet the requirements of the exception to Section 110.1.

110.1.2 Engineered design required. The Code Official may require construction documents, plans, computations, and specifications to be prepared and designed by a Maryland Professional Engineer. Where fixtures, equipment, or processes are outside the scope of standard loading factors prescribed in this Code, such as commercial or industrial laundries and laundromats, an engineered design shall be required, and the documents, plans and specifications shall be sealed and signed by a Maryland Professional Engineer. In any case, where the design has been sealed and signed, the engineer shall be proficient in mechanical, plumbing, and fuel gas design; specifically, water, drainage, fuel gas, appliance venting, or ventilation and make-up air, as applicable.

110.1.2.1 Submission of construction documents for engineered design required. When the Code Official requires construction documents to be prepared by a Maryland Professional Engineer under Section 110.1.2, the Code Official may require the construction documents to be submitted by the engineer. The Code Official may also require that any technical based inquiries related to project be made by the engineer, principal master, or a licensee.

110.1.3 Electronic submittal required. Design plans and other required supporting documentation shall be submitted to the Commission in accordance with applicable electronic submittal and related checklist protocols.

110.2 Retention of construction documents. Electronic records of approved construction documents shall be retained by the Code Official until final inspection approval of the work covered therein. The WSSC-Licensed Plumber or Gasfitter shall have the approved construction documents printed and provided on the project site for the Code Officials use to document the project progress and incremental inspection results. The approved construction documents shall be kept on the site of the building or work at all times which the authorized work is in progress.**]**

[SECTION 111 NOTICE OF APPROVAL]

[111.1 Approval. After the prescribed tests and inspections indicate that the work authorized by a permit complies in all respects with this Code, a notice of approval shall be issued by the Code Official.

111.1.1 Revocation. The Code Official is authorized to, in writing, suspend or revoke a notice of approval issued under the provisions of this Code wherever the notice is issued in error, or on the basis of incorrect information supplied, or where it is determined that the building or structure, premise or portion thereof is in violation of any ordinance or regulation or any of the provisions of this Code.**]**

[SECTION 112 CONNECTION TO THE COMMISSION'S SYSTEMS AND METERING]

[112.1 Service connections, general. A newly constructed building located on a property which abuts a public water or sewer main shall connect to those public water or sewer systems or both. Any property that does not abut a public water or sewer main may connect to a private well for water supply or private sewage disposal system (septic system) if the property is

categorized by the respective county's water or sewer category maps, and the property is permitted by the respective county's health department. Any property that is not categorized or permitted by the respective county for private water or sewage disposal shall apply for a system (main line) extension or a non-abutting connection to the public water or sewer system. This section supersedes Sections 602.3 and 701.2 of the IPC.

112.1.1 Size, type, and location. The Commission shall have approval authority of the size, depth, location, and type of construction of water and sewer service connections.

112.1.1.1 Water service connection, minimum size. The minimum size new water service connection for Group R-3 occupancies shall be 1 1/2-inches. Water service connections that are already buried may be utilized provided they are deemed adequate to serve the greater demand of either the total proposed fixture load or the fire sprinkler system.

112.1.1.2 Design consideration. New water service connections may be designed as 1-inch provided the future load can be predetermined and where no segment of the building's domestic or fire sprinkler system shall exceed 1-inch. Except for pipe stem lots and flag lots, these criteria must be met for all models and all lots; and the entire Commission system extension project must be designed uniformly.

112.1.2 Non-abutting service connections. Service connections to a property not abutting directly on a Commission water or sewer main may be allowed under certain conditions, see WSSC Development Services Code for qualifying factors for non-abutting service connections.

112.1.3 Service connection in easement. If the property to be served is to be connected to a Commission water or sewer main located in an easement or right-of-way granted by Commission, the services shall be provided under the following conditions:

112.1.3.1 Responsibility. All necessary excavation, backfill, and restoration within easement or right-of-way granted by Commission shall be the responsibility of the WSSC-Licensed Master Plumber.

112.1.3.2 Trenching. The main shall be exposed and the trench protected in accordance with all MOSHA requirements.

112.1.3.3 Tapping. Only Commission-authorized personnel shall make taps or connections into Commission water and sewer mains.

112.1.4 Reconnection. Reconnections to abandoned building sewers and water services shall be permitted provided they conform to applicable Code requirements.

112.1.5 Existing water connection. New buildings utilizing an existing water service connection, with either an existing outside or inside water meter setting, shall be required to re-establish a water meter setting, at the Commission's discretion, with the size, type and location of the new water meter as designated by the Commission.

112.1.5.1 Water abandonment. If an existing water connection is not reused, it shall be disconnected at the main through an abandonment permit at the expense of the property owner.

112.1.6 Existing sewer connection. If a property line cleanout does not exist, new buildings that use a previously unused existing sewer service connection, and existing buildings where the building sewer is replaced shall install a property line cleanout within 1-foot of the property line, or at the edge of the public right-of-way, or Commission easement. The base connection shall be a combination wye and one-eighth bend fitting lying on its back. The cleanout cover assembly shall conform with Commission Standard Detail S-5.1 or S-5.2.

112.1.6.1 Sewer abandonment. Existing sewer connections not being reused shall be disconnected at the main through an abandonment permit at the expense of the property owner.

112.1.7 Applicant built service connection permits. Where applicant built service connection permits apply, a completed applicant built package shall be submitted and accepted by Permit Services Section prior to the first plumbing permit. Where applicant built permits are for abandonment of water or sewer service connections, or both, the applicant built package is required at the time the applicant built package is submitted for new service.

112.2 Service connections. Except as provided in Section 112.2.1, only one water and only one sewer service connection is permitted to serve a lot or parcel, or a group of lots and parcels that are under single ownership.

112.2.1 Additional connections allowed or required. After approval from the Commission, additional service connections shall be allowed or required as follows:

112.2.1.1 Detached Group R-3 occupancy buildings. For a detached Group R-3 occupancy building located on common tract of land with the same owner, if the detached building is converted wholly or in part, subdivided under different ownership and sold, it is required to have separate water and sewer service connections prior to the sale.

112.2.1.2 Group I-2, condition 2 facilities. Group I-2, Condition 2 facilities shall have not fewer than two water service pipes under Section 609.2 of the IPC.

112.2.1.3 Superstructures. In buildings that are more than 420 feet (128 m) in building height, not fewer than two separate water service connections and separate piping on property are required in accordance with Section 403.3.2 of the IBC.

112.2.1.4 Additional water services. The Code Official may approve additional water services for buildings, complexes or campuses with a significant domestic water or fire sprinkler system demand. The Code Official may approve additional water services for buildings, complexes, or campuses that have special uses that require more than one water service. Supporting documentation is required to demonstrate that a single service is not practical or where the local fire protection design official is requiring redundant service. Where separate services are approved, metering arrangements shall generate a single Commission account.

112.2.1.5 Layout restrictions. Additional water or sewer service connections may be allowed where physical site features or appurtenances, including the imposing footprint of the building itself, create unyielding obstacles.

112.2.1.6 Sewer serviceability. To facilitate the greatest amount of gravity sewer service, additional sewer service connections shall be allowed for buildings, complexes or campuses where deemed practical and beneficial. Consideration shall be given to the depth, serviceability, and structural impact of long, inside runs of building drain.

112.2.1.7 Imminent subdivision and sale. Separate service connections are required when subdivision and sale of a large tract of land has begun or as a condition of a governmental action. Consideration shall be given to mainline water and sewer extensions needed to facilitate the required service connections.

112.2.1.8 Condominiums or cooperative ownership properties. Condominiums or cooperative ownership properties that abut a public water main, are townhouses, and use a NFPA 13D or 13R type fire sprinkler system may be served with individual Commission water service connection outfitted with an outside meter or curb valve.

112.2.2 Shared service connections serving multiple property owners. Other than in a Group R-3 occupancy, a shared service connection may be allowed when multiple properties or buildings**,** are under separate ownership but located on a common tract of land. The arrangement must be recorded in a Shared Site Utility System Agreement and approved by a Code Official. The following conditions shall be required for approval by Commission:

112.2.2.1 Recordation. Recordation of the necessary covenants and easements for maintenance of the shared site utility system.

112.2.2.2 Outside water meter. An accessible outside water meter for each water service connection. All Commission water meters serving the shared site utility system shall be billed to a single account.

112.2.2.3 Design. When authorized, the site utility system shall be designed with the fewest number of service connections.

112.2.2.4 Private meter. Further division of water and sewer billing obligations shall be a private matter between the property owners, lessees, and tenants and may be accomplished through private meters.

112.2.3 Covenants. Where multiple properties or buildings under single ownership are served by water and sewer services connections as allowed or required, a covenant shall be submitted for the Commission's approval. The covenant shall require the property owner to notify the Commission before any subdivision or sale of any or all of the properties covered by the covenant. If the property is subdivided or sold, the covenant may require the property owner to obtain separate water and sewer connections or enter into a Shared Site Utility System Agreement.

112.3 Right-of-way or easement. A property owner shall have a recorded right-of-way or easement if the property owner's water service, sewer service or site utility system is installed, under, over or through any property owned by another person.

112.4 Fire service connections and fire hydrants. Water connections for combined domestic and fire service, or for fire service only, shall be provided under such conditions as determined by the Commission. Combination water service is the preferred method of supplying domestic water and fire sprinkler systems.

112.4.1 Detached Group R-3 occupancies. Connection to the potable water supply shall be made in accordance with provisions set forth in Section 112.2.1.8 and Chapter 6, "Installation of Commission Water Meters", Sections 603.2.2 and 604.3.2.

112.4.2 Other than Group R-3 occupancies.

112.4.2.1 Systems without fire hydrants. For systems without fire hydrants for other than Group R-3 occupancies, if the water service is to serve a fire sprinkler system with no private fire hydrants and with inside meters, the fire sprinkler water is not required to be metered.

112.4.2.2 Systems with fire hydrants. For systems with fire hydrants for other than Group R-3 occupancies, if the water service is to serve private fire hydrants or other fire sprinkler systems or both and an outside metering scheme is permitted and employed, the meter type utilized shall be FM meter.

112.4.2.3 Existing monitored systems. The Commission shall not require fire sprinkler systems or fire hydrants to be monitored, this includes systems with existing monitoring.

112.4.2.4 Water supplied to fire protection systems or private hydrants. Water supplied to fire sprinkler systems or private fire hydrants shall not be used for any purpose other the firefighting or periodic system flushing and testing required by a county or local fire protection official. Any other unofficial or unauthorized use shall constitute theft of service and be subject to prosecution under Section 110 of this Code.

112.4.3 Private fire hydrants. Private fire hydrants shall be painted red. The use of private fire hydrants shall be limited solely to fire protection. Any other use shall be prohibited.

112.5 Metering.

112.5.1 General. The Commission shall determine meter size, type, and metering schemes for all Commission Meters. water meters shall be sized based on plumbing hydraulic load, as set forth in Section 602.3. Unless the Code Official approves an exception, oversized meters shall be prohibited. Commission meters may not be used to measure hot water distribution piping systems, plumbing fixtures individually, or groupings of fixtures individually.

112.5.1.1 Existing metering schemes. Except where prohibited under this Code, a property may continue to use its existing metering scheme. If a property is altered or new buildings erected, the Commission may approve the continued use of an existing metering scheme for existing or new buildings.

112.5.1.1.1 Conversion to condominium (Prince George's County only). In accordance with State Law, where a property use is being converted to condominium or cooperative ownership of residential units, the owner shall install a Commission furnished individual meter for each individual dwelling unit and for the common areas. Refer to Sections 112.5.8.2 and 112.5.8.3 for details.

112.5.2 Location. Unless approved for location inside the building, water meters shall be set adjacent to the property line or, where applicable, at the edge of a public right-of-way or Commission easement and right-of-way. Water meter settings and vaults shall be constructed in accordance with Commission Standard Details.

112.5.3 Responsibility. Commission water meters shall be supplied and maintained by the Commission, shall remain the property of the Commission, and shall be installed in accordance with Chapter 6.

112.5.4 Protection. The building owner is responsible for protecting Commission water meters from damage by freezing or physical abuse. The property owner shall be responsible for expenses related to meter repair, replacement, or loss due to neglect or damage.

112.5.5 Tampering. It shall be unlawful to tamper with a Commission water meter, meter seal, bypass seal, appurtenance, meter setting, curb valve, valve box or meter vault.

112.5.6 Exceptions. With the exception of Sections 112.5.6.1 and 112.5.6.2, all water provided by Commission shall be metered.

12.5.6.1 Water supplied to fire protection systems and private fire hydrants. Water supplied to fire protection systems and private fire hydrants for the purpose of fire protection is not required to be metered by the Commission.

112.5.6.2 Maintenance of fire hydrants. Water used in the maintenance of fire hydrants, including repair, testing, flushing, and flow tests, is not required to be metered by the Commission.

112.5.7 Meter settings and installation. The Commission or its designee shall install all outside meters. Outside meter settings for 3/4-inch through 2-inch meters and outside vaults for 3-inch and larger meters shall be furnished installed by the utility contractor. The plumber shall install inside Commission meters size 1 1/2-inch and larger. The Commission or its designee shall install inside meters size 1-inch and smaller. See Chapter 6, "Installation of Commission Water Meters".

112.5.8 Multi-Unit Buildings. In accordance with State Law, the Commission shall require individual metering of residential dwelling units within a multi-unit condominium or cooperative ownership property located in Prince George's

County. For all other multi-unit properties, the Commission shall allow either a master meter or individual meters. Where individual meters are optioned, design and installation shall meet the provisions set forth in Sections 112.5.8.2 and 112.5.8.3 below. Where required solely by the owner, unit private meters shall be furnished, installed, and maintained by the property owner.

112.5.8.1 Mixed-use buildings. With the exception of buildings using individual meters, where mixed-use buildings are served by a single water service connection or multiple service connections forming into a single system on property, a minimum of two meters shall be installed, as set forth below, to allow for the separate registering or computation of residential unit and commercial unit water consumption at the building. For mixed-use properties located in Prince George's County, each residential dwelling unit must be separately metered.

112.5.8.1.1 Live and work units. In mixed-use buildings where only one residential unit and one commercial unit are served by a single water service, the owner may choose to have one or two meters. Where only one meter is installed, the unit count for billing purposes shall be one.

112.5.8.1.2 Inside meters. When a mixed-use building is allowed or required by other sections of this Code to be served by inside meters, the required meters, one or more to register only residential unit water consumption and one or more to register only commercial unit water consumption, shall be installed inside in accordance with Sections 112.5.8.2 and 112.5.8.3, as well as Chapter 6 of this Code.

112.5.8.1.3 Outside meters. When a mixed-use building is allowed or required by other sections of this Code to be served by an outside meter application, the two or more required meters shall be installed in accordance with Chapter 6 and as follows: One meter shall be installed outside on the water service connection to register all consumption on-property. Other meters shall be installed inside to register the commercial unit water consumption only so that the difference between the outside meter and the inside meter readings represents the residential unit water consumption at the building. This arrangement is not permitted where individual residential dwelling unit metering is either required or chosen.

112.5.8.2 Individual meters. Where individual meters for multi-unit properties is used, each residential dwelling unit shall be supplied with an individual cold water main supply pipe, Commission meter, and separately billed account. Collectively, all building piping, including any other water uses throughout the building shall be arranged as follows:

112.5.8.2.1 No combination of master and individual meters. No combination of master meters with individual unit meters is permitted (not allowed as an option and will not be supported by the Commission billing system).

112.5.8.2.2 Common areas. Common areas shall be independently metered with a separate account, individual meter, and shut-off valve.

112.5.8.2.3 Submeters. For buildings with individual meters, an individual meter shall be used in lieu of a submeter for determining sewer credits. An individual meter for each use and may not be arranged as a submetered use to any other dwelling unit or use within the property.

112.5.8.2.4 Additional separate metering. Where commercial units (mixed-use buildings) are included, additional metering is required separate from the residential dwelling units and common areas or amenities. See also Section 112.5.8.1. This section may be satisfied by using one meter for all commercial units. Where individual commercial unit metering is optioned, design and installation shall comply with Section 112.5.8.3.

112.5.8.3 Centralized meter room. In all cases where individual multi-unit metering is utilized, a centralized meter room or rooms shall be provided following the provisions set forth in Section 604 and as detailed as follows:

112.5.8.3.1 Small buildings. Buildings up to three floors or 25,000 gross square feet (2,322 square meters) shall be outfitted with a central meter room, equipped with a lockable door accessible directly from the exterior of the building.

112.5.8.3.2 Large buildings. Buildings greater than three floors or 25,000 gross square feet (2,322 gross square meters) shall be outfitted with a central meter room, equipped with a lockable door. Additional central meter rooms are subject to Commission approval and will be considered on a per wing, floor, or area basis. Where direct access is practical, it shall be provided.

112.5.8.3.3 Floor drains. Each meter room shall contain one or more floor drains with a minimum sizing as follows:

1 – 6 meters	=	2-inch floor drain
7 – 12 meters	=	3-inch floor drain
13 meters or greater	=	4-inch floor drain

112.5.8.3.4 Shutoff valve. One shutoff valve within each individual meter piping assembly shall be a tamper resistant and lockable type ball valve. Where an NFPA 13D or 13R fire sprinkler system is utilized, the lockable valve shall be downstream of the fire sprinkler supply tee and serve only the main domestic water.

112.5.8.3.5 Identification. Each individual meter piping assembly shall be identified with an affixed permanent tag, placard, or label depicting the unique unit, suite, or address served by that meter. All related distribution piping, including concealed piping, shall also be identified or labeled every 25 feet (7,620 mm) and within 5 feet (1,524 mm) of each side of a floor or wall penetration.

112.5.8.3.6 Required locked doors. Where central meter rooms open directly to the outdoors, the locking mechanism shall be a four-digit combination lock and the lock code shall be the same for all buildings within a complex. The lock code shall be provided to the Commission's Meter Services personnel during the initial meter setting and verification work order and updated lock codes shall be communicated promptly to the Commission's Customer Services Department.

112.5.8.3.7 Exception. Properties that abut a public water main, are constructed as row-style townhomes (one unit from bottom to top) and use an NFPA 13D or 13R type fire sprinkler system may be served with individual Commission Water Service Connection outfitted with an outside meter or curb valve with inside meter.

112.5.9 Commission submeter. Except as provided in Section 112.5.8.2.3 and as otherwise allowed by law, where water furnished by the Commission is used for purposes where none of the water that passes through the submeter enters the Commission's sewerage system, the owner may request the installation of a Commission submeter. See Public Utilities Article, Section 25-502 through 25-504.

112.5.9.1 Piping arrangement. In cases where a Commission submeter is the same size as the corresponding Commission inside main meter, the piping shall be designed and installed to accommodate each meter in parallel to the other and each meter shall be sized per Table 602.1. Commission submeters shall be installed on the upstream, potable side of an isolation type backflow preventer.

112.5.9.2 Established credits. The following represents established credit values for various submeter applications where all or a portion of the registered water consumption does not discharge to the Commission sanitary sewer system:

112.5.9.2.1 Irrigation. 100% sewer credit for irrigation, outdoor hose bibbs, wall hydrants, yard hydrants, and similar outdoor only water uses.

112.5.9.2.2 Cooling towers with discharge permit. 100% sewer credit for cooling towers with an approved discharge permit from the Maryland Department of the Environment. No provisions for any portion of the submetered water to be discharged to the sanitary sewer system including auto-mechanical blow-off for the introduction of fresh water and chemical or disinfection treatments.

112.5.9.2.3 Cooling towers to sanitary sewer. 73% sewer credit for cooling towers with drain or any mechanical loop piping routed to sanitary sewer including auto-mechanical for the introduction of fresh water and chemical or disinfection treatments.

112.5.9.2.4 Laundries. 25% sewer credit for commercial and industrial laundries.

112.5.9.2.5 Requested credit. A commercial, industrial, or multi-residential property may request a Commission submeter and credit based on a formula determined by the Commission. The formula determined by the Commission shall be consistent with manufacturers' engineering standards for the class of equipment using the separately metered water supplied by the Commission; or industry standards for the class of operations using the separately metered water supplied by the Commission. Customer may be required to provide engineering analysis to Commission. Application for sewer credit shall be submitted to the Commission's Customer Relation Department for review and approval.

112.5.10 Sewer-only accounts. When a building classification other than Group R-3 occupancy using a private water supply system is connected to the Commission sewerage system, a Commission meter shall be installed on the water

supply to determine the sewer use charge. At the Commission's discretion, Group R-3 occupancies served as above shall be billed based on a flat rate or using an effluent meter.

112.5.11 Fire hydrant meters. The Commission may authorize use of a fire hydrant meter to applicants requiring water for temporary use. Fire hydrant meters shall have backflow prevention according to Section 506.7.1. Fire hydrant meter use shall be restricted to temporary or seasonal applications including tank truck filling, temporary water for construction sites, special events (e.g., charity walks, fairgrounds), and seasonal uses (e.g., irrigation). Fire hydrants shall not be used to circumvent the need to obtain service connections to supply water to full-time businesses, nurseries with retail and maintenance buildings, and similar applications. Such applications shall require a permanent service connection.

112.6 Containment. All buildings shall have containment backflow preventer installed on the outlet side of the water meter, before water uses within the premise, as cited in Section 502.3 of this Code. Backflow preventers shall be maintained by the owner as cited in Section 102.3.10.**]**

[SECTION 113 STOP WORK ORDER]

[113.1 Authority. Where the Code Official finds any work regulated by this Code being performed in a manner contrary to the provisions of this Code or in a dangerous or unsafe manner, the Code Official is authorized to issue a stop work order.

113.2 Issuance. The stop work order shall be in writing and shall be posted at the job site and given to the owner of the property, the owner's authorized agent or the person performing the work. Upon issuance of a stop work order, the cited work shall immediately cease. The stop work order shall state the reason for the order and the conditions under which the cited work is authorized to resume.

113.3 Emergencies. Where an emergency exists, the Code Official shall not be required to give a written notice prior to stopping the work.

113.4 Failure to comply. Any person who shall continue any work after having been served with a stop work order, except such work as that person is directed to perform to remove a violation or unsafe condition, shall be subject to actions and penalties per Section 115.

113.5 Removal of stop work order. Work shall only resume when stop work order is removed by a Code Official.

113.5.1 Procedures. The licensee shall purchase a Short Form Permit for the purpose of scheduling inspection for removal of stop work order. If the project has an original Long Form or Short Form Permit, the additional Short Form Permit for removal of stop work order shall be scheduled for inspection at the same time.**]**

SECTION [114]112 APPEAL OF CODE OFFICIAL DECISIONS

[114.1]112.1 Applicability of section. With the exception of license actions, this section shall apply to decisions of the Code Official.

[114.2]112.2 Application for appeal. Any person shall have the right to appeal a decision of the Code Official to the Chief Code Official on matters relating to code interpretation. An appeal request shall be based on a claim that the true intent of this Code or the rules legally adopted thereunder have been incorrectly interpreted, that the provisions of this Code do not fully apply, or that an equally good or better form of construction is proposed. The appeal request shall be filed in writing within 20 days after the decision was issued.

[114.2.1]112.2.1 Chief Code Official decision. The Chief Code Official shall affirm, modify, or reverse the decision of the Code Official. This decision shall be provided to the appellant in writing within 20 days from the Commission's receipt of the appeal.

[114.3]112.3 Appeal of Chief Code Official decision. Any person shall have the right to appeal a decision of the Chief Code Official under this section to the WSSC Plumbing and Fuel Gas Board (hereinafter the "Board"). An appeal from the Chief Code Official's decision shall be filed with the Commission in writing within 20 days after the decision was issued.

[114.4]112.4 Notice of meeting. The Board shall meet, upon notice from the chairperson, within 45 days of the filing of an appeal or at stated periodic meetings.

[114.5]112.5 Open hearing. All appeal hearings before the Board shall be open to the public. The appellant, the appellant's representative, the Code Official and any person whose interests are affected shall be given an opportunity to be heard.

[114.6]112.6 **Procedure.** The Board shall adopt and make available to the public procedures under which a hearing shall be conducted. The procedures shall not require compliance with strict rules of evidence but shall mandate that only relevant information is received.

[114.7]112.7 **Board decisions.** The Board shall affirm, modify or reverse the decision of the Chief Code Official by a majority vote or as otherwise specified in any bylaws adopted by the Board. The decision of the Board shall be final.

[114.7.1]112.7.1 **Resolution.** The decision of the Board shall be by resolution. Official copies shall be furnished to the appellant and to the Chief Code Official.

[114.7.2]112.7.2 **Administration.** The Chief Code Official shall take [immediate] action **WITHOUT DELAY** in accordance with the resolution of the Board.

SECTION 113 PLUMBING AND FUEL GAS BOARD

113.1 DUTIES.

113.1.1 CODE ADVISORY ROLE. THE WSSC PLUMBING AND FUEL GAS BOARD SHALL BE RESPONSIBLE FOR REVIEWING AND RECOMMENDING TO THE COMMISSION THE CODE REQUIREMENTS GOVERNING PLUMBING, FUEL GAS, AND SITE UTILITY INSTALLATIONS, AND INDUSTRIAL DISCHARGE CONTROL. CODE REQUIREMENTS REVIEWED AND RECOMMENDED BY THE BOARD SHALL NOT BECOME EFFECTIVE UNTIL THEY HAVE BEEN APPROVED AND ADOPTED BY THE COMMISSION UNDER SECTION 17-403 OF THE PUBLIC UTILITIES ARTICLE .

113.1.2 HEARINGS AND APPEALS. THE BOARD SHALL SERVE AS A HEARING AUTHORITY IN CASES SET FORTH IN SECTION 114.7, "DENIALS, SUSPENSIONS, AND REVOCATIONS, HEARINGS"; SECTION 112.3, "APPEAL OF CHIEF CODE OFFICIAL DECISIONS"; AND REQUESTS FOR EXCEPTIONS FOR TRADE QUALIFICATIONS AND EXAMS IN SECTION 117, "LICENSES AND REGISTRATION", WHEN REFERRED BY OR DENIED BY THE CHIEF CODE OFFICIAL.

113.1.3 LIMITATIONS. THE EXERCISE AND PERFORMANCE OF FUNCTIONS AND DUTIES OF THE BOARD SHALL BE SUBJECT TO THE AUTHORITY OF THE COMMISSION AS SET FORTH IN PUBLIC UTILITIES ARTICLE, ANNOTATED CODE OF MARYLAND.

113.2 VOTING MEMBERSHIP. THE BOARD SHALL CONSIST OF SEVEN VOTING MEMBERS. EXCEPT FOR AN APPEAL ORIGINATING FROM A DECISION OF THE CHIEF CODE OFFICIAL, THE CHIEF CODE OFFICIAL OF THE COMMISSION SHALL BE A PERMANENT VOTING MEMBER OF THE BOARD. THE GENERAL MANAGER OF THE COMMISSION MUST APPOINT 6 VOTING MEMBERS WHO SHALL NOT BE CURRENT EMPLOYEES OF THE COMMISSION. OF THE 6 APPOINTED MEMBERS:

- **a. ONE MUST BE A WSSC-LICENSED MASTER PLUMBER AND GASFITTER REPRESENTING THE LARGE COMMERCIAL OR LARGE VOLUME RESIDENTIAL SECTOR;**
- **b. ONE MUST BE A WSSC-LICENSED MASTER PLUMBER REPRESENTING A LOCAL PLUMBING TRADE ASSOCIATION;**
- **c. ONE MUST BE A WSSC-LICENSED MASTER GASFITTER REPRESENTING A LOCAL HVAC TRADE ASSOCIATION;**
- **d. ONE MUST BE A MARYLAND PROFESSIONAL ENGINEER WITH EXPERIENCE AND UNDERSTANDING OF PLUMBING AND FUEL GAS SYSTEMS;**
- **e. ONE MUST BE A CONSUMER REPRESENTATIVE FROM MONTGOMERY COUNTY, WITH AN UNDERSTANDING OF TECHNICAL ISSUES, WHO SHALL NOT HAVE ANY FINANCIAL INTEREST IN ANY PERSON REGULATED BY THE BOARD; AND**
- **f. ONE MUST BE A CONSUMER REPRESENTATIVE FROM PRINCE GEORGE'S COUNTY, WITH AN UNDERSTANDING OF TECHNICAL ISSUES, WHO SHALL NOT HAVE ANY FINANCIAL INTEREST IN ANY PERSON REGULATED BY THE BOARD.**

113.2.1 ALTERNATE MEMBERS. THE GENERAL MANAGER OF THE COMMISSION MAY SELECT AN ALTERNATE FOR EACH OF THE BOARD'S EXTERNAL MEMBERS. THE ALTERNATE MAY ONLY VOTE IN THE ABSENCE OF MEMBER REPRESENTING THEIR PARTICULAR CLASS OF MEMBERSHIP.

113.3 STAFF ATTORNEY. A COMMISSION STAFF ATTORNEY, WHO IS APPOINTED BY THE GENERAL COUNSEL OF THE COMMISSION, SHALL PARTICIPATE IN ALL BOARD MEETINGS AS AN ADVISORY NON-VOTING MEMBER.

113.4 CHAIRMAN. THE BOARD SHALL ELECT A CHAIRMAN FROM AMONG ITS MEMBERSHIP. THE CHAIRMAN SHALL MANAGE BOARD MEETINGS AND MAINTAIN RULES OF ORDER AND SHALL VOTE ONLY IN CASES OF A TIE VOTE.

SECTION [115]114 VIOLATIONS AND PENALTIES

[115.1]114.1 Unlawful acts. No person shall erect, construct, alter, repair, remove, demolish or utilize any plumbing, fuel gas, site utility system, or industrial discharge control system or perform sewer and drain cleaning; or cause same to be done, in conflict with or in violation of any of the provisions of this Code.

[115.2]114.2 Notice of violation. A Code Official shall serve a Notice of Violation (NOV) to the person responsible for the erection, installation, alteration, extension, repair, removal or demolition of work in violation of the provisions of this Code, or in violation of a directive or the approved construction documents thereunder, or in violation of a permit or certificate issued under the provisions of this Code. Such order shall direct the discontinuance of the illegal action or condition and the abatement of the violation within a specified timeframe. The person responsible includes the property owner, the property owner's agents and contractors, and the licensed or unlicensed persons. The timeframe for corrective actions cited in a NOV shall be met as directed. The timeframe for corrective actions is not contingent on the disposition of any civil citation.

[115.2.1]114.2.1 Failure to comply. Failure to comply with a Notice of Violation (NOV) or other enforcement action, within the specified timeframe, is a separate violation of this Code and may be subject to progressive enforcement action including civil citation, stop work order, termination of service, and may be grounds for license action.

[115.2.2]114.2.2 Abatement of violation. The imposition of the penalties provided in this section shall not preclude the Commission from instituting appropriate action to prevent unlawful construction or to restrain, correct or abate a violation, or to prevent illegal occupancy of a building, structure or premises, or to stop an illegal act, conduct, business or use of the plumbing, fuel gas, or site utility systems on or about any premises.

[115.3]114.3 Civil citations. Pursuant to Section 29-101, Public Utilities Article, Annotated Code of Maryland, a Code Official who is authorized by the Commission to issue civil citations may issue civil citations to any person violating any provision of this Code.

Upon delivery of a civil citation by the Commission, the person who violated any provision of this Code shall pay to the Commission a civil fine in the amount of:

1. For a first violation of a provision of this Code, $250;
2. For a second violation of the provision, $500;
3. For a third violation of the provision, $750; and
4. For a fourth or subsequent violation, $1,000.

The progression of civil citation issuance will continue until a period of 12 months without violation of the provision.

114.3.1 ABATEMENT OF CIVIL CITATION VIOLATION. THE IMPOSITION OF THE PENALTIES PROVIDED IN THIS SECTION SHALL NOT PRECLUDE THE COMMISSION FROM INSTITUTING APPROPRIATE ACTION TO PREVENT UNLAWFUL CONSTRUCTION OR TO RESTRAIN, CORRECT OR ABATE A VIOLATION, OR TO PREVENT ILLEGAL OCCUPANCY OF A BUILDING, STRUCTURE OR PREMISES, OR TO STOP AN ILLEGAL ACT, CONDUCT, BUSINESS OR USE OF THE PLUMBING, FUEL GAS, OR SITE UTILITY SYSTEMS ON OR ABOUT ANY PREMISES.

[115.4]114.4 Stop work order. Where the Code Official finds any work regulated by this Code being performed in a manner contrary to the provisions of this Code or in a dangerous or unsafe manner, the Code Official is authorized to issue a stop work order. See Section [113]115.

[115.5]114.5 Termination of water, sewer or gas service. A property owner is subject to termination of water, sewer, or gas service where any of the following conditions exist and progressive enforcement actions were unsuccessful, or where imminent danger to life exist. For termination of gas service, the Code Official shall refer to gas utility. See also Sections [115.2.1]114.2.1 and [115.10.4]114.10.4.

[115.5.1]114.5.1 Without required authorization. The property owner engaged in work without required authorization, including work without a license or work without a permit.

[115.5.2]114.5.2 Inspections. The property owner engaged in work and the required inspections for permitted work have not been scheduled.

[115.5.1]114.5.1 Uncooperative or untimely. The property owner has been uncooperative or untimely in [to rectify]RECTIFYING unauthorized work.

[115.6]114.6 License denials, [reprimands,] suspensions and revocations, grounds.

[115.6.1]114.6.1 General. Subject to the hearing provisions of Section [115.7]114.7 of this Code, and in any order depending upon the circumstances, the Board may deny a license to an applicant, [reprimand any licensee,] or suspend or revoke a license if the Board determines that the applicant or licensee:

[115.6.1.1]114.6.1.1 Fraudulently or deceptively obtain license. Fraudulently or deceptively obtains or attempts to obtain a license for the applicant or licensee or for another;

[115.6.1.2]114.6.1.2 Fraudulently or deceptively use. Fraudulently or deceptively uses a license;

[115.6.1.3]114.6.1.3 Gross negligence, incompetence, or misconduct. Is guilty of gross negligence, incompetence, or misconduct while providing plumbing, gasfitting, or sewer and drain cleaning services or assisting in providing plumbing, gasfitting, or sewer and drain cleaning services;

[115.6.1.4]114.6.1.4 Violating Code. Is guilty of violating the Commission's plumbing and fuel gas regulations adopted under Title 17, Subtitle 4 of the Public Utilities Article of the Annotated Code of Maryland while providing plumbing, gasfitting, or sewer and drain cleaning services or assisting in providing plumbing, gasfitting, or sewer and drain cleaning services;

[115.6.1.5]114.6.1.5 Unfair or deceptive practice. Is guilty of an unfair or deceptive trade practice, as defined in Section 13-301 of the Commercial Law Article of the Annotated Code of Maryland;

[115.6.1.6]114.6.1.6 Felony or misdemeanor. Under the laws of the United States or of any state, is convicted of:

- **a.** A felony; or
- **b.** A misdemeanor that is directly related to the fitness and qualification of the applicant or licensee to provide plumbing, gasfitting, or sewer and drain cleaning services;

[115.6.1.7]114.6.1.7 Failure to control. Fails to train and control adequately any person who, while under the direction and control of the Master Plumber or Master Gasfitter, sells or gives estimates for providing plumbing or gasfitting services or provides or assists in providing plumbing or gasfitting services;

[115.6.1.8]114.6.1.8 Failure to maintain insurance. Fails to maintain the liability insurance required under Section 118.8;

[115.6.1.9]114.6.1.9 Failure to comply. Fails to comply with a notice of violation within the specified deadline. See Section 115.2.1.

[115.6.1.10]114.6.1.10 Performs work outside of scope of license. As the holder of a Master Plumber, Master Gasfitter, Master Plumber/Gasfitter, Journeyman Plumber license, Journeyman Gasfitter license, Apprentice Plumber license, Apprentice Gasfitter license, or Sewer and Drain Cleaner license performs plumbing, gasfitting, or sewer and drain cleaning services outside the scope of that license;

[115.6.1.11]114.6.1.11 Allows or permits work outside of scope of license. Knowingly allows or permits another licensee to perform plumbing, gasfitting, or sewer and drain cleaning services outside the scope of that individual's license;

114.6.1.12 AIDING OR ABETTING. AIDING OR ABETTING ANY PERSON TO EVADE OR VIOLATE ANY PROVISION OF THIS CODE;

114.6.1.13 OUTSTANDING JUDGMENTS. FAILURE TO RENDER MONETARY PAYMENT TO THE COMMISSION FOR A SETTLEMENT BETWEEN THE COMMISSION AND A LICENSEE OR A JUDGMENT OBTAINED BY THE COMMISSION AGAINST A LICENSEE;

114.6.1.14 THEFT OF SERVICE. FOR VIOLATIONS OF SECTION 116;

[1.6.1.12]114.6.1.15 Other provisions. Violates any other provision of this Code; or

[115.6.1.13]114.6.1.16 Any regulation adopted. Violates any regulation adopted under this Code.

[115.6.2]114.6.2 Penalty. Instead of or in addition to [reprimanding a licensee or] suspending or revoking a license under Section 115.6.1, the Board may impose a penalty payable to the Commission not exceeding $5,000 for each violation. To determine the amount of the penalty imposed under this subsection, the Board shall consider:

- **a.** The seriousness of the violation;
- **b.** The harm caused by the violation;
- **c.** The good faith of the licensee; and
- **d.** Any history of previous violations by the licensee.

[115.6.4]114.6.3 Convicted. The Board shall consider the following facts in the denial, suspension, or revocation of a license or the reprimand of a licensee when an applicant or licensee is convicted of a felony or misdemeanor described in Section [115.6.1.6]**114.6.1.6**:

- **a.** The nature of the crime;

b. The relationship of the crime to the activities authorized by the license;
c. With respect to a felony, the relevance of the conviction to the fitness and qualification of the applicant or licensee to provide plumbing services;
d. The length of time since the conviction; and
e. The behavior and activities of the applicant or licensee before and after the conviction.

[115.7]114.7 Denials, [reprimands,] suspensions, and revocations, hearings.

[115.7.1]114.7.1 Opportunity for hearing. Except as otherwise provided in Section 10-226 of the State Government Article, before the Board takes any final action under Section 12-312 of this subtitle, it shall give the individual against whom the action is contemplated an opportunity for a hearing.

[115.7.2]114.7.2 Notice. The Board shall give notice and hold the hearing in accordance with Title 10, Subtitle 2 of the State Government Article.

[115.7.3]114.7.3 Oaths. The Board may administer oaths in connection with any proceeding under this section.

[115.7.4]114.7.4 Failure or refusal to appear. If, after due notice, the individual against whom the action is contemplated fails or refuses to appear, nevertheless the Board may hear and determine the matter.

[115.7.5]114.7.5 Denial. The Commission shall deny a license to an applicant who provides incomplete, inaccurate, fraudulent, or false information on his or her application, or during the examination process; has been found guilty of one or more of the provisions set forth in Section [115.6.1]**114.6.1** as a non-licensee.

[115.8]114.8 Judicial review. Any person aggrieved by a final decision of the Board in a contested case, as defined in Section 10-202 of the State Government Article, may take an appeal as allowed in Sections 10-222 and 10-223 of the State Government Article.

114.9[115.9] License reinstatement.

[115.9.1]114.9.1 Suspension. Following the term of any license suspension, the license shall be reinstated, provided that the licensee meets all of the requirements of Section [118]**117** of this Code for the particular type of license.

[115.9.2]114.9.2 Revocation. Following the term, if any, of any license revocation the license may be reinstated, provided that the licensee passes the required Commission examination and otherwise qualifies for the particular type of license in accordance with the requirements of Sections [118]**117** of this Code.

[115.10]114.10 Unsafe installations.

[115.10.1]114.10.1 Inspection authority. Subject to the limitations set forth in Section 102.2, existing installations regulated by this Code may be inspected at any time, and modifications may be required to return such systems into compliance with this Code.

[115.10.2]114.10.2 Hazardous conditions. Any installation regulated by this Code that is unsafe, or that constitutes a fire or health hazard, unsanitary condition, or is otherwise dangerous to human life shall hereby be declared unsafe. Any use of an installation regulated by this Code constituting a hazard to safety, health or public welfare by reason of inadequate maintenance, dilapidation, obsolescence, fire hazard, disaster, damage or abandonment shall hereby be declared an unsafe use. Unsafe equipment shall hereby be declared a public nuisance and shall be abated by repair, rehabilitation, demolition or removal.

[115.10.3]114.10.3 Authority to condemn equipment. Whenever a Code Official determines that any installation, or portion thereof, regulated by this Code has become hazardous to life, health or property or has become unsanitary, the Code Official shall order in writing that such installation either be removed or restored to a safe or sanitary condition. A time limit for compliance with such order shall be specified in the written notice of violation. Using or maintaining such defective installations after receiving a notice of violation shall be prohibited.

When such an installation is to be disconnected, written notice as prescribed in Section [115.2]**114.2** shall be given. In cases of immediate danger to life or property, the order to disconnect shall be effective immediately without such notice.

[115.10.4]114.10.4 Authority to disconnect service utilities. A Code Official shall have the authority to authorize disconnection of water, sewer or gas service to any building, structure or system regulated by this Code to eliminate [an immediate]**A CONDITION WITH THE POTENTIAL TO CAUSE** danger to life, property, environment, health hazard or the Commission's systems. **A CODE OFFICIAL SHALL ALSO HAVE THE AUTHORITY TO DISCONNECT SERVICE UTILITES AS PART OF PROGESSIVE ENFORCEMENT ACTIONS IN RESPONSE TO CODE VIOLATIONS.** Where possible, the owner and occupant of the building, structure or service system shall be notified of the decision to disconnect utility service before

taking such action. If not notified before disconnection, the owner or occupant of the building, structure or service systems shall be notified in writing, as soon as practical thereafter.

[115.10.5]114.10.5 Reconnection after order to disconnect. Any connection regulated by this Code that has been disconnected or that has been ordered to be disconnected, or the use of which has been ordered to be discontinued, shall not be re-established until a Code Official authorizes the reconnection and use of such system or equipment.

When any installation is maintained in violation of this Code, and in violation of any notice issued pursuant to the provisions of this section, a Code Official may institute any appropriate action to prevent, restrain, correct or abate the violation.

[115.11]114.11 Unlicensed work subject to civil liability and criminal prosecution. Where a person willfully advertised, solicited, contracted or performed plumbing, gasfitting, site utility, sewer and drain cleaning, or waste hauling services without a license or permit, the person may be subject to civil liability and criminal prosecution under Maryland Law.

SECTION 115 STOP WORK ORDER

115.1 AUTHORITY. WHERE THE CODE OFFICIAL FINDS ANY WORK REGULATED BY THIS CODE BEING PERFORMED IN A MANNER CONTRARY TO THE PROVISIONS OF THIS CODE OR IN A DANGEROUS OR UNSAFE MANNER, THE CODE OFFICIAL IS AUTHORIZED TO ISSUE A STOP WORK ORDER.

115.2 ISSUANCE. THE STOP WORK ORDER SHALL BE IN WRITING AND SHALL BE POSTED AT THE JOB SITE AND GIVEN TO THE OWNER OF THE PROPERTY, THE OWNER'S AUTHORIZED AGENT OR THE PERSON PERFORMING THE WORK. UPON ISSUANCE OF A STOP WORK ORDER, THE CITED WORK SHALL IMMEDIATELY CEASE. THE STOP WORK ORDER SHALL STATE THE REASON FOR THE ORDER AND THE CONDITIONS UNDER WHICH THE CITED WORK IS AUTHORIZED TO RESUME.

115.3 EMERGENCIES. WHERE AN EMERGENCY EXISTS, THE CODE OFFICIAL SHALL NOT BE REQUIRED TO GIVE A WRITTEN NOTICE PRIOR TO STOPPING THE WORK.

115.4 FAILURE TO COMPLY. ANY PERSON WHO SHALL CONTINUE ANY WORK AFTER HAVING BEEN SERVED WITH A STOP WORK ORDER, EXCEPT SUCH WORK AS THAT PERSON IS DIRECTED TO PERFORM TO REMOVE A VIOLATION OR UNSAFE CONDITION, SHALL BE SUBJECT TO ACTIONS AND PENALTIES PER SECTION 114.

115.5 REMOVAL OF STOP WORK ORDER. WORK SHALL ONLY RESUME WHEN STOP WORK ORDER IS REMOVED BY A CODE OFFICIAL.

115.5.1 PROCEDURES. THE LICENSEE SHALL PURCHASE A SHORT FORM PERMIT FOR THE PURPOSE OF SCHEDULING INSPECTION FOR REMOVAL OF STOP WORK ORDER. IF THE PROJECT HAS AN ORIGINAL LONG FORM OR SHORT FORM PERMIT, THE ADDITIONAL SHORT FORM PERMIT FOR REMOVAL OF STOP WORK ORDER SHALL BE SCHEDULED FOR INSPECTION AT THE SAME TIME.

SECTION 116 THEFT OF COMMISSION SERVICES

116.1 GENERAL. THE PROVISIONS OF THIS SECTION SHALL GOVERN THEFT OF COMMISSION SERVICES. THEFT OF SERVICE INCLUDES, INTENT TO OBTAIN SERVICES WITHOUT PAYMENT, INTENT TO DIVERT SERVICES, AND ILLEGAL SEWER CONNECTION OR DISCHARGE. THEFT OF SERVICE IS SUBJECT TO ENFORCEMENT ACTION.

[116.1]116.2 Intent to obtain services without payment. UNLESS OTHERWISE ALLOWED BY LAW OR BY PRIOR WRITTEN PERMISSION OF THE COMMISSION, A PERSON SHALL NOT TAMPER WITH, INSTALL, TAP, REMOVE, DISPLACE, OR MAKE ANY CONNECTION WITH ANY PIPE, VALVE, FIRE HYDRANT, METER, FITTING, CONNECTION OR OTHER FIXTURE, APPURTENANCE, OR EQUIPMENT OF THE COMMISSION WITH THE INTENT TO OBTAIN WATER OR SEWER SERVICE WITHOUT PAYMENT THEREFOR.

[116.1.1 Tampering. Unless otherwise allowed by law or by prior written permission of the Commission, a person shall not tamper with, install, tap, remove, displace, or make any connection with any pipe, valve, fire hydrant, meter, fitting, connection or other fixture, appurtenance, or equipment of the Commission with the intent to obtain water or sewer service without payment therefor.**]**

[116.1.2]116.2.1 Evidence. Unless otherwise allowed by law or by prior written permission of the Commission, a person that tampers with, installs, taps, removes, displaces, or makes any connection with any pipe, valve, fire hydrant, meter, fitting, connection or other fixture, appurtenance, or equipment of the Commission, it shall constitute prima facie evidence of an intent to obtain water or sewer service without payment therefor.

[116.2]116.3 Intent to divert services. UNLESS OTHERWISE ALLOWED BY LAW OR BY PRIOR WRITTEN PERMISSION OF THE COMMISSION, A PERSON MAY NOT MAKE OR CAUSE TO BE MADE ANY PIPE, TUBE, OR OTHER INSTRUMENT OR CONTRIVANCE OR CONNECT THE SAME OR CAUSE IT TO BE CONNECTED WITH ANY WATER OR SEWER MAIN, SERVICE CONNECTION, OR OTHER PIPE FOR CONDUCTING OR SUPPLYING WATER IN SUCH MANNER AS TO BE CALCULATED TO SUPPLY WATER AROUND OR WITHOUT PASSING THROUGH A METER PROVIDED BY THE COMMISSION FOR THE MEASURING AND REGISTERING OF THE QUANTITY OF WATER OR SEWER USAGE OR BOTH.

[116.2.1 General. Unless otherwise allowed by law or by prior written permission of the Commission, a person may not make or cause to be made any pipe, tube, or other instrument or contrivance or connect the same or cause it to be connected with any water or sewer main, service connection, or other pipe for conducting or supplying water in such manner as to be calculated to supply water around or without passing through a meter provided by the Commission for the measuring and registering of the quantity of water or sewer usage or both.**]**

116.3.1 EVIDENCE. THE EXISTENCE OF ANY PIPE, TUBE, OR OTHER INSTRUMENT OR CONTRIVANCE WHICH EFFECTS THE DIVERSION OF WATER OR WITHOUT THE WATER BEING MEASURED OR REGISTERED BY OR ON A METER PROVIDED BY THE COMMISSION, OR THE USE OF WATER FURNISHED BY THE COMMISSION WITHOUT IT BEING MEASURED OR REGISTERED ON A METER PROVIDED THEREFOR BY THE COMMISSION, SHALL CONSTITUTE PRIMA FACIE EVIDENCE OF INTENT TO DIVERT SERVICES AND OF THE VIOLATION OF THIS SECTION BY THE PERSON OR PERSONS WHO WOULD RECEIVE THE DIRECT BENEFITS FROM THE USE OF THE WATER OR SEWER SERVICES WITHOUT IT BEING MEASURED OR REGISTERED ON A METER.

[116.2.1.1]116.3.2 Meter bypass valve. A meter bypass valve associated with an inside or outside Commission water meter shall only be opened by authorized Commission personnel or by written permission from Commission customer relations or utility services personnel. Unauthorized opening of a meter bypass valve shall constitute prima facie evidence of theft of service.

[116.2.2]116.4 Illegal sewer connection or discharge. Unless allowed by this Code, water from any source that has not first been measured or registered through a Commission water meter shall not be discharged to the Commission's sanitary sewer system. Examples of illegal sewer connections or discharges include: storm water or ground water from any source, air conditioning condensate, outdoor pool and deck drains, building foundation drains or foundation sump pumps. See IPC Section 314.2 and amendments in Chapter 3 of this Code.

[116.2.2.1]116.4.1 Outdoor swimming pools, decorative fountains or interactive water features. In order for outdoor swimming pools, decorative fountains or interactive water features to discharge to the Commission sanitary sewer system, there shall include a raised curb, other peaked topographic feature, or a diverting trench drain which only allows direct rainfall to enter the feature and all other surface or subsurface waters to be directed away from said feature and not be able to reach the sanitary sewer.

[116.2.2.2]116.4.2 Openings. Entrances and exits to parking and service garages, vehicle washing facilities, loading docks, and any other similar openings shall protect inside sanitary drains from receiving storm waters by incorporating an overhang equal to or exceeding 1 foot (304 mm) horizontal per 5 feet (1,524 mm) of vertical opening and where applicable, a diverting trench drain for downward sloping ramps, entrances, and exits.

116.4.3 OUTDOOR SINKS. SINKS LOCATED OUTSIDE SHALL BE PROTECTED FROM RECEIVING STORM WATER BY AN APPROVED COVER.

116.4.4 OUTDOOR DRINKING FOUNTAINS. OUTDOOR DRINKING FOUNTAINS ARE NOT REQUIRED TO BE PROTECTED FROM RECEIVING STORM WATER.

[116.2.3]116.4.5 Evidence. The existence of any pipe, tube, or other instrument or contrivance which **[**effects the diversion of water or without the water being measured or registered by or on a meter provided by the Commission, or the use of water furnished by the Commission without it being measured or registered on a meter provided therefor by the Commission**]ALLOWS AN ILLEGAL SEWER CONNECTION OR DISCHARGE PER SECTION 116.4**, shall constitute prima facie evidence of intent to violate and of the violation of this section by the person or persons who would receive the direct benefits from the use of the **[**water or**]** sewer services without it being measured or registered on a meter.

[116.2.4]116.5 Test meter. If a test meter installed or employed by the Commission shows that a customer is using a greater amount of water than that registered on the meter on or for the customer's premises for the purpose of registering the amount of water used by that customer, such condition shall constitute prima facie evidence that the unregistered water has been wrongfully diverted by such customer, and shall further constitute prima facie evidence of the intent to violate the provisions of this section and of the violation of this section.

[SECTION 117 PLUMBING AND FUEL GAS BOARD]

[117.1 Duties.

117.1.1 Code advisory role. The WSSC Plumbing and Fuel Gas Board shall be responsible for reviewing and recommending to the Commission the Code requirements governing plumbing, fuel gas, and site utility installations, and industrial discharge control. Code requirements reviewed and recommended by the Board shall not become effective until they have been approved and adopted by the Commission under Section 17-403 of the Public Utilities Article .

117.1.2 Hearings and appeals. The Board shall serve as a hearing authority in cases set forth in Section 115.7, "Denials, Reprimands, Suspensions, and Revocations, Hearings"; Section 114.3, "Appeal of Chief Code Official Decisions"; and requests for exceptions for trade qualifications and exams in Section 118, "Licenses and Registration", when referred by or denied by the Chief Code Official.

117.1.3 Limitations. The exercise and performance of functions and duties of the Board shall be subject to the authority of the Commission as set forth in Public Utilities Article, Annotated Code of Maryland.

117.2 Voting membership. The Board shall consist of seven voting members. Except for an appeal originating from a decision of the Chief Code Official, the Chief Code Official of the Commission shall be a permanent voting member of the Board. The General Manager of the Commission must appoint 6 voting members who shall not be current employees of the Commission. Of the 6 appointed members:

g. One must be a WSSC-Licensed Master Plumber and Gasfitter representing the large commercial or large volume residential sector;
h. One must be a WSSC-Licensed Master Plumber representing a local plumbing trade association;
i. One must be a WSSC-Licensed Master Gasfitter representing a local HVAC trade association;
j. One must be a Maryland Professional Engineer with experience and understanding of plumbing and fuel gas systems;
k. One must be a consumer representative from Montgomery County, with an understanding of technical issues, who shall not have any financial interest in any person regulated by the Board; and
l. One must be a consumer representative from Prince George's County, with an understanding of technical issues, who shall not have any financial interest in any person regulated by the Board.

117.2.1 Alternate members. The General Manager of the Commission may select an alternate for each of the Board's external members. The alternate may only vote in the absence of member representing their particular class of membership.

117.3 Staff attorney. A Commission staff attorney, who is appointed by the general counsel of the Commission, shall participate in all Board meetings as an advisory non-voting member.

117.4 Chairman. The Board shall elect a chairman from among its membership. The chairman shall manage Board meetings and maintain rules of order and shall vote only in cases of a tie vote.**]**

SECTION [118]117 LICENSES AND REGISTRATION

[118.1]117.1 Licensee. A licensee, as defined in Chapter 2 of this Code, is the holder of a Commission issued license.

[118.2]117.2 Principal licensee. Each person that performs plumbing, gasfitting, or sewer and drain cleaning in the Sanitary District shall register one individual with the Commission as its principal licensee. The principal licensee shall be a Master Plumber, Master Gasfitter, Master Plumber/Gasfitter, or Sewer and Drain Cleaner. Permits shall only be issued to a principal licensee, or homeowner for homeowner permit. Sewer and Drain Cleaners cannot be issued a plumbing or gasfitting permit, see Section [106.4]**105.4**.

[118.2.1]117.2.1 One principal licensee per firm. A licensee may only be the registered principal licensee for one firm or corporation, and a firm or corporation may only register one individual as its principal licensee for each type of license.

[118.2.2]117.2.2 Non-principal licensees. WSSC-Licensed Master Plumbers, Master Gasfitters, Master Plumber/Gasfitters, and Sewer and Drain Cleaners not registered as a principal licensee shall be licensed as non-principal licensees. Non-principal licensees shall not be eligible for permit issuance, shall not portray themselves as the principal licensee for any firm or corporation, and shall perform work only under the direction and control of a principal licensee.

[118.3]117.3 Who is not licensed. The Commission shall not license any firm or corporation, other than indirectly through control of the principal licensee per Sections [118.2.1]**117.2.1** or [118.4]**117.4**.

[118.4]117.4 Firms with multiple divisions. If a firm or corporation has multiple operating branches, divisions, or geographic locations, principal licensee requirements shall be determined as follows:

[118.4.1]117.4.1 Single name. If all branches or divisions operate under a single corporate or advertised name, representation by one principal licensee shall be required.

[118.4.2]117.4.2 Multiple names. With the exception of different names due to geographical location, if each branch or division of a firm or corporation operates under its own advertised name, different than the firm or corporate name of which it is a part, then each such branch or division shall be required to be represented by its own principal licensee.

[118.5]117.5 Institutional license required. Any public agency or utility, institution, industrial or commercial establishment, or similar entity that carries out the act of plumbing or gasfitting or both in-house ("in-house" means done internally within organization) throughout its campus or within their building or both shall be represented by a WSSC-Licensed Master Plumber, Gasfitter, or Plumber/Gasfitter, as applicable. The licensee shall register as the principal licensee for the entity and shall also comply with Section [118.2.1]**117.2.1**.

[118.5.1]117.5.1 Institutional Employment. A WSSC-Licensed Master Plumber, Master Gasfitter, or Master Plumber/Gasfitter may be regularly employed for public work, or by an institution, industrial establishment, or public utility, but outside of that employment, shall not carry on the business of plumbing or gasfitting within the Sanitary District unless licensed and registered by the Commission.

[118.5.2]117.5.2 Federal property exempt. See Section 102.8.

117.6 DIRECTION AND CONTROL.

117.6.1 MINIMUM SUPERVISION ON PROJECT SITE. FOR WORK THAT REQUIRES A PERMIT, AT LEAST ONE WSSC-LICENSED JOURNEYMAN OR MASTER PLUMBER, GASFITTER, OR PLUMBER/GASFITTER IS REQUIRED TO BE ON EACH PROJECT SITE WHERE THE RELATED PLUMBING, GASFITTING, OR PLUMBING AND GASFITTING WORK IS BEING PERFORMED.

117.6.1 MINIMUM SUPERVSION BY MASTER PLUMBER. WSSC-LICENSED JOURNEYMAN ARE REQUIRED TO WORK UNDER THE SUPERVISION OF A MASTER LICENSEE. THE MASTER LICENSEE PROVIDING SUPERVISION SHALL BE ON PROJECT SITE OR IMMEDIATELY AVAILABLE BY PHONE OR ELECTRONIC COMMUNICATION.

[118.6]117.7 Licenses.

[118.6.1]117.7.1 Apprentice Plumber.

[118.6.1.1]117.7.1.1 Authorization for work. An apprentice plumber license shall authorize the licensee to assist in providing plumbing services and sewer and drain cleaning services under the direction and control of a WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter on the project site; or under the direction and control of a WSSC-Licensed Journeyman Plumber or Journeyman Plumber/Gasfitter on the project site who is under the direction and control of a WSSC-Licensed Master Plumber or Master Plumber/Gasfitter.

[118.6.1.2]117.7.1.2 Qualifications. Qualification for this entry level position to the plumbing trade does not require references or the passage of any exam.

[118.6.2]117.7.2 Apprentice Gasfitter.

[118.6.2.1]117.7.2.1 Authorization for work. An apprentice gasfitter license shall authorize the licensee to assist in providing gasfitting services under the direction and control of a WSSC-Licensed Master Gasfitter or Master Plumber/Gasfitter on the project site; or under a WSSC-Licensed Journeyman Gasfitter or WSSC-Licensed Journeyman Plumber/Gasfitter on the project site who is under the direction and control of a WSSC-Licensed Master Gasfitter or Master Plumber/Gasfitter.

[118.6.2.2]117.7.2.2 Qualifications. Qualification for this entry level position to the gasfitting trade does not require references or the passage of any exam.

[118.6.3]117.7.3 Apprentice Plumber/Gasfitter.

[118.6.3.1]117.7.3.1 Authorization for work. An apprentice plumber/gasfitter license shall authorize the licensee to assist in providing plumbing and sewer and drain cleaning services and gasfitting services under the direction and control of a WSSC-Licensed Master Plumber/Gasfitter on the project site; or under a WSSC-Licensed Journeyman Plumber/Gasfitter on the project who is under the direction and control of a WSSC-Licensed Master Plumber/Gasfitter.

[118.6.3.2]117.7.3.2 Qualifications. Qualification for this entry level position to the plumbing and gasfitting trades does not require references or the passage of any exam.

[118.6.4]117.7.4 Journeyman Plumber.

[118.6.4.1]117.7.4.1 Authorization for work. A journeyman plumber license shall authorize the licensee to provide plumbing and sewer and drain cleaning services under the direction and control of a WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter.

[118.6.4.2]117.7.4.2 Qualifications. In order to qualify for the journeyman plumber exam, applicants shall meet the following requirements:

[118.6.4.2.1]117.7.4.2.1 Work experience. Applicants shall furnish satisfactory proof (W-2 forms, pay stubs, etc.) of a minimum of 7,500 hours of work experience in the plumbing trade as an apprentice under the direction and control of a WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter (or equivalent work experience approved by Code Official).

[118.6.4.2.2]117.7.4.2.2 Formal training. Applicants who graduate from approved plumbing training courses, conducted under the auspices of an approved trade association, utility, or educational institution, shall gain additional credit toward the working hours requirement. Up to 750-hours spent by the applicant in attending such courses shall count as double when applied toward the total required hours.

[118.6.4.2.3]117.7.4.2.3 Cross-connection certification. As a prerequisite for taking the journeyman plumber exam, applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor, or a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state that is acceptable to the Commission. The certificate of completion must be issued within 3-years before the date of application.

[118.6.4.2.4]117.7.4.2.4 References. Applicants shall provide a minimum of 3 references. References shall be from employers or persons acquainted with the applicant's trade qualifications and character.

[118.6.4.2.5]117.7.4.2.5 Exam. See Section [118.7]117.8.

[118.6.5]117.7.5 Journeyman Gasfitter.

[118.6.5.1]117.7.5.1 Authorization for work. A Journeyman Gasfitter license shall authorize the licensee to provide gasfitting services under the direction and control of a WSSC-Licensed Master Gasfitter or WSSC-Licensed Master Plumber/Gasfitter.

[118.6.5.2]117.7.5.2 Qualifications. In order to qualify for the Journeyman Gasfitter exam, applicants shall meet the following requirements:

[118.6.5.2.1]117.7.5.2.1 Work experience. Applicants shall furnish satisfactory proof (W-2 forms, pay stubs, etc.) of a minimum of 3,750 hours of work experience in the gasfitting trade as an apprentice under the direction and control of a WSSC-Licensed Master Gasfitter or WSSC-Licensed Master Plumber/Gasfitter (or equivalent work experience approved by Code Official).

[118.6.5.2.2]117.7.5.2.2 Formal training. Applicants who graduate from approved gasfitting training courses, conducted under the auspices of an approved trade association, utility, or educational institution, shall gain additional credit toward the working hours requirement. Up to 375-hours spent by the applicant in attending such courses shall count as double when applied toward the total required hours.

[118.6.5.2.3]117.7.5.2.3 References. Applicants shall provide a minimum of 3 references. References shall be from employers or persons acquainted with the applicant's trade qualifications and character.

[118.6.5.2.4]117.7.5.2.4 Exam. See Section [118.7]117.8.

[118.6.6]117.7.6 Journeyman Plumber/Gasfitter.

[118.6.6.1]117.7.6.1 Authorization for work. Journeyman Plumber/Gasfitter license shall authorize the licensee to provide plumbing and sewer and drain cleaning services under the direction and control of a WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter; and gasfitting services under the direction and control of a WSSC-Licensed Master Gasfitter or WSSC-Licensed Master Plumber/Gasfitter.

[118.6.6.2]117.7.6.2 Qualifications. See Sections [118.6.4]117.7.4 and [118.6.5]117.7.5.

[118.6.7]117.7.7 Master Plumber.

[118.6.7.1]117.7.7.1 Authorization for work. A Master Plumber license shall authorize the licensee to provide plumbing and sewer and drain cleaning services.

[118.6.7.2]117.7.7.2 Qualifications. In order to qualify for the Master Plumber exam, applicants shall meet the following requirements:

[118.6.7.2.1]117.7.7.2.1 Work experience. Applicants shall furnish satisfactory proof (W-2 forms, pay stubs, etc.) of a minimum of 3,750 hours of work experience in the plumbing trade as a journeyman plumber under the direction and control of a WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter (or equivalent work experience approved by Code Official).

[118.6.7.2.2]117.7.7.2.2 Cross-Connection certification. As a prerequisite for taking the Master Plumber exam, applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor, or a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state that is acceptable to the Commission. The certificate of completion must be issued within 3-years before the date of application.

[118.6.7.2.3]117.7.7.2.3 References. Applicants shall provide a minimum of 3 references. References shall be from employers or persons acquainted with the applicant's trade qualifications and character.

[118.6.7.2.4]117.7.7.2.4 Exam. See Section [118.7]117.8.

[118.6.8]117.7.8 Master Gasfitter.

[118.6.8.1]117.7.8.1 Authorization for work. A Master Gasfitter license shall authorize the licensee to provide gasfitting services.

[118.6.8.6]117.7.8.6 Qualifications. In order to qualify for the Master Gasfitter examination, applicants shall meet the following requirements:

[118.6.8.6.1]117.7.8.6.1 Work Experience. Applicants shall furnish satisfactory proof (W-2 forms, pay stubs, etc.) of a minimum of 3,750 hours of work experience in the gasfitting trade as a journeyman gasfitter under the direction and control of a WSSC-Licensed Master Gasfitter or WSSC-Licensed Master Plumber/Gasfitter (or equivalent work experience approved by Code Official).

[118.6.8.6.2]117.7.8.6.2 References. Applicants shall provide a minimum of 3 references. References shall be from employers or persons acquainted with the applicant's trade qualifications and character.

[118.6.8.6.3]117.7.8.6.3 Exam. See Section [118.7]117.8.

[118.6.9]117.7.9 Master Plumber/Gasfitter.

[118.6.9.1]117.7.9.1 Authorization for work. A Master Plumber/Gasfitter license shall authorize the licensee to provide plumbing, sewer and drain cleaning, and gasfitting services.

[118.6.9.2]117.7.9.2 Qualifications. See Sections [118.6.7]117.7.7 and [118.6.8]117.7.8.

[118.6.10]117.7.10 Sewer and Drain Cleaner.

[118.6.10.1]117.7.10.1 Authorization for work. A master plumber or a sewer and drain cleaner shall be authorized to provide sewer and drain cleaning services of drainage systems regulated by the Commission. Sewer and drain cleaning shall be performed only by a WSSC-Licensed Sewer and Drain Cleaner; or by individuals who are under the direction and control of a WSSC-Licensed Master Plumber, WSSC-Licensed Master Plumber/Gasfitter, or WSSC-Licensed Sewer and Drain Cleaner. Additional work shall be regulated and restricted as follows:

[118.6.10.1.1]117.7.10.1.1 Fixture removal access. When a licensee is engaged in sewer and drain cleaning activity only, a Sewer and Drain Cleaner license shall allow the licensee to remove and reset a plumbing fixture for access to the drainage system.

[118.6.10.1.2]117.7.10.1.2 Plumbing and gasfitting prohibited. A WSSC-Licensed Sewer and Drain Cleaner shall be prohibited from installing, extending, or altering any plumbing and shall be prohibited from engaging in the plumbing or gasfitting business.

[118.6.10.1.3]117.7.10.1.3 Master Plumber. A WSSC-Licensed Master Plumber or WSSC-Licensed Master Plumber/Gasfitter shall not be required to hold a Sewer and Drain Cleaner license in order to engage in sewer and drain cleaning service.

[118.6.10.2]117.7.10.2 Qualifications.

[118.6.10.2.1]117.7.10.2.1 Work experience. Applicants shall furnish satisfactory proof (W-2 forms, pay stubs, etc.) of a minimum of 3,750 hours of work experience in the sewer and drain cleaning business under the

direction and control of a WSSC-Licensed Sewer and Drain Cleaner, WSSC-Licensed Master Plumber, or WSSC-Licensed Master Plumber/Gasfitter for a minimum of 3750-hours of work experience in the trades. Proof of work experience shall be supported by written statements from one or more employers of the applicant.

[118.6.10.2.1.1]117.7.10.2.1.1 Journeyman plumber. A WSSC-Licensed Journeyman Plumber or WSSC-Licensed Journeyman Plumber/Gasfitter shall be considered a qualified applicant in lieu of the work experience required in Section [118.6.10.2.1]**117.7.10.2.1**.

[118.6.10.2.2]117.7.10.2.2 References. Applicants shall provide a minimum of 3 references. References shall be from employers or persons acquainted with the applicant's trade qualifications and character.

[118.6.11]117.7.11 Cross-Connection Technician.

[118.6.11.1]117.7.11.1 Authorization for work. A Cross-Connection Technician license shall authorize the licensee to certify the installation and testing of mechanical cross-connection control assemblies.

[118.6.11.2]117.7.11.2 Qualifications. In order to qualify for the Cross-Connection Technician license, applicants shall meet the following requirements:

[118.6.11.2.1]117.7.11.2.1 Eligible persons. Only a WSSC-Licensed Master Plumber, WSSC-Licensed Master Plumber/Gasfitter, WSSC-Licensed Journeyman Plumber, or WSSC-Licensed Journeyman Plumber/Gasfitter shall be eligible for licensing as a Cross-Connection Technician.

[118.6.11.2.2]117.7.11.2.2 Cross-connection certification. All Cross-Connection Technician applicants shall have certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor or have a certificate of completion for a 32-hour cross-connection and backflow prevention training program from another jurisdiction or state that is acceptable to the Commission.

[118.6.11.2.3]117.7.11.2.3 Recertification limit. A Cross-Connection Technician license shall be valid for a period of 3-years. Individuals shall be required to have a certificate of completion for an 8-hour recertification program instructed by an approved cross-connection and backflow prevention certified course instructor or pass an 8-hour cross-connection and backflow prevention training program from another jurisdiction or state that is acceptable to the Commission. Individuals who allow their certification to lapse shall immediately cease all Cross-Connection Technician license related activities. If recertification is not obtained within 12 months of the certificate expiration date, the individual shall be required to complete a cross-connection and backflow prevention training program that meets the requirements of Section [119]**118**.

[118.6.12]117.7.12 Non-licensed worker. A non-licensed person, such as a helper or laborer, shall not provide or assist in providing plumbing, gasfitting, or sewer and drain cleaning work. A non-licensed person shall only perform classes of work that support plumbing and gasfitting work. Examples include excavating, backfilling, cutting and drilling of the structure, carrying materials and equipment, cleaning up, painting, patching, and similar classes of support work.

[118.6.13]117.7.13 Minor work not requiring a licensee. A person shall not be required to be a licensee to perform minor plumbing and gas appliance maintenance services within the scope of Section [106.2.1.2]**105.2.1.2**, "Plumbing maintenance", and Section [106.2.2.1]**105.2.2.1**, "Gas appliance maintenance."

[118.7]117.8 Exam.

[118.7.1]117.8.1 Type of exam. Applicants at both the journeyman and master levels shall be required to pass a multiple-choice, open-book exam on knowledge of this Code, particular to the trade being examined. At the journeyman level, questions outside of this Code that relate to general knowledge of hands-on trade practice shall also be included. At the master level, questions outside of this Code that relate to safety regulations, mathematics, common principles of physics, construction drawings and riser diagrams, building structural integrity, pipe sizing, standard details and specifications, materials standards, and general knowledge of hands-on trade practice shall also be included.

[118.7.2]117.8.2 Fee. Fees for the exam are applied according to the schedule of fees and charges approved by the Commission at the time of exam application. Failure to pay required fees shall render an application invalid.

[118.7.3]117.8.3 Passing score. A passing score of no less than 70% shall constitute successful completion of the exam.

[118.7.4]117.8.4 Reexamination. Applicants shall be permitted to retake the exam every 30 days until a passing score has been obtained.

[118.8]117.9 Insurance requirements and warranty.

[118.8.1]117.9.1 Coverage parameters.

[118.8.1.1]117.9.1.1 Proof of coverage. Before registration as the master principal licensee, or sewer and drain cleaner principal, for a firm or corporation, the licensee shall provide evidence to the Commission that minimum insurance coverage has been acquired to cover general liability exposure. This evidence shall be submitted in the form of a certificate of insurance, with the Commission listed as the certificate holder.

[118.8.1.2]117.9.1.2 Person representing a public agency or public service corporation. In cases where a licensee is representing a public agency or public service corporation, the licensee shall provide evidence of insurance coverage or financial responsibility and statements of self-insurance on each required coverage.

[118.8.1.3]117.9.1.3 Minimum insurance coverage. The minimum insurance requirement shall be a commercial general liability policy with a combined aggregate limit for bodily injury and property damage of $1,000,000.

[118.8.2]117.9.2 Premium obligations.

[118.8.2.1]117.9.2.1 Insurance company. The insurance company issuing policies of insurance shall be licensed for business in the state of Maryland.

[118.8.2.2]117.9.2.2 Licensee responsibility. The principal licensee shall be responsible for submitting an updated certificate of insurance before the policy expiration date. Failure to do so shall result in lapse of registration.

[118.8.3]117.9.3 Insurance cancellations. A minimum of 30 days written notification to the Commission shall be given by the insurer of any alteration, change, or cancellation affecting any certificates or policies of insurance as required under this Code. Notification shall be sent via registered or certified mail or shall be hand-carried to the Commission.

[118.8.4]117.9.4 Insurance conditions.

[118.8.4.1]117.9.4.1 Scope. All policies and certificates of insurance shall be obtained before the issuance of a Commission license or permit.

[118.8.4.2]117.9.4.2 Purpose. The applicant shall satisfy the insurance requirements in Section [118.8]117.9 before the Commission may issue a license to a principal licensee.

[118.8.4.3]117.9.4.3 Protection. The insurance requirements in this section are minimum requirements. Insurance requirements shall not be construed by anyone to indicate that they are sufficient or adequate under all circumstances.

[118.8.5]117.9.5 Warranty. On all work requiring a permit, the licensee shall warrant, at a minimum, the work as cited below. Contracts between a licensee, individual, or company, and the owner, owner's agent, or proprietor, shall define responsibilities between these parties and shall not involve the Commission.

[118.8.5.1]117.9.5.1 Sewer and water service. The building sewer and the building water service shall be warranted for 3-years from date of final inspection.

[118.8.5.2]117.9.5.2 All other work. All other work shall be warranted for 1-year from date of final inspection.

[118.4.5.3]117.9.5.3 Exception. Where the owner or owner's agent obstructs or refuses to allow inspection, the warranty requirements shall not apply to the work subject to inspection, provided the licensee has notified the Commission in accordance with Section [106.7.3]105.7.3.

[118.9]117.10 License registration.

[118.9.1]117.10.1 License registration procedure.

[118.9.1.1]117.10.1.1 Registration. To be licensed by the Commission, applicants shall register with the Commission after trade and examination qualifications are satisfied per Section 118, as applicable. Required work experience as an apprentice or a journeyman begins at the time of registration.

[118.9.1.2]117.10.1.2 License issuance. A license shall be issued upon payment of registration fees, approval, submission of necessary documents, and insurance requirements, as applicable.

[118.9.1.3]117.10.1.3 Referral evidence. For all prospective licensees, except apprentices, referral and character evidence furnished by the applicant upon application for registration shall be obtained from a minimum of 3 persons. References listed on the application shall be employers or persons acquainted with the applicant's trade qualifications and character.

[118.9.1.4]117.10.1.4 Four-year registration, master license, original license. Master license applicants passing the Commission exam shall renew their license every 4-years.

[118.9.1.5]117.10.1.5 Two-year registration, journeyman license. Journeyman license applicants shall renew their license every 2-years.

[118.9.1.6]117.10.1.6 Lifetime registration, apprentice license. Apprentice license applicants shall be issued an apprentice license without an expiration date. Apprentices are not required to renew their license.

[118.9.1.7]117.10.1.7 Two-year registration, master license, reciprocal license. Master plumbers, master gasfitters, and master plumber/gasfitters registering under the reciprocity provisions of Section [118]117 shall be required to renew their Commission license every 2-years. Expiration will be set to occur one month after expiration of the original license.

[118.9.1.8]117.10.1.8 Two-year registration, sewer and drain cleaner license. Sewer and drain cleaners shall renew their license every 2-years.

[118.9.2]117.10.2 Registration card. A licensee shall be required to carry the license registration card when performing plumbing, gasfitting, or sewer and drain cleaning work. The registration card and, if requested by the Code Official, a picture identification card, shall be presented upon request to the Code Official. If a Commission license registration card is lost or destroyed, the licensee shall apply for a new license registration card within 5 business days.

[118.9.3]117.10.3 Change of business or licensee status. If a principal licensee changes their business affiliation, goes out of business, or is deceased, or if the firm or corporation for which they are the principal licensee changes its name, the respective registration as principal licensee shall immediately expire. The licensee (or, if deceased, the firm or corporation) shall notify the Commission of the change in writing within 5 business days of the change.

[118.9.4]117.10.4 Lapse of registration. Lapse of registration shall render a Commission license invalid. No work regulated by this Code shall proceed until registration is current.

[118.9.4.1]117.10.4.1 Plumber or Gasfitter. If a licensee fails to renew the license within 4-years after the license expires, or if a licensee applicant who has passed the Commission exam fails to apply for registration within 4-years of the date of qualification, the licensee or applicant shall be required to qualify in accordance with the provisions set forth in Section 118. Otherwise, only the appropriate registration fee shall be required if all other requirements of this Code are shown to be satisfied.

[118.9.4.2]117.10.4.2 Sewer and Drain Cleaner. If the licensee fails to renew their license within 2 years after the license expires, the licensee shall be required to qualify in accordance with the provisions set forth in Section 118. Otherwise, only the appropriate registration fee shall be required if all other requirements of this Code are shown to be satisfied.

[118.10]117.11 License display and advertisement requirements.

[118.10.1]117.11.1 Vehicle displays. Each company-owned vehicle used to provide plumbing, fuel gas, or sewer and drain cleaning services shall display information as follows:

[118.10.1.1]117.11.1.1 Name. Company or firm name.

[118.10.1.2]117.11.1.2 Number. WSSC license registration number of the principal licensee (e.g. WSSC #12345).

[118.10.1.3]117.11.1.3 Both sides. Required information shall appear on both sides of the vehicle.

[118.10.2]117.11.2 Advertisement. Each printed, audio, video, or computerized advertisement of any type shall clearly contain the applicable words “WSSC-Licensed Master Plumber/Gasfitter”, “WSSC-Licensed Master Plumber”, “WSSC-Licensed Master Gasfitter”, or “WSSC-Licensed Sewer and Drain Cleaner” along with the current valid WSSC registration number (license number).

[118.11]117.12 Licensee contact information. Licensees shall be responsible for keeping address, email, and telephone information current with the Commission. A valid email address is required for license registration. Address, email, and phone number corrections and changes shall be transmitted in writing or performed electronically through the Commission’s ePermitting system. Email and telephone information shall be for individual and not general contact information for business. Address shall be personal address, with the exception of business owners (licensees who own their business may use business address).

[118.12]117.13 Reciprocity of licenses.

[118.12.1]117.13.1 Master Plumber or Master Gasfitter, with license from a jurisdiction having reciprocity with the Commission. The Commission shall reciprocate at the master licensee level with a jurisdiction where the applicant has passed a plumbing exam, gasfitting exam, or combination plumbing and gasfitting exam, acceptable to the Code Official.

Applicants shall qualify for registration as a WSSC-Licensed Master Plumber or Master Gasfitter upon satisfaction of or pursuant to the following conditions:

[118.12.1.1]117.13.1.1 Current license. Present a current Master Plumber or Master Gasfitter license issued by the reciprocating jurisdiction or licensing agency.

[118.12.1.2]117.13.1.2 Good standing. Present a letter of good standing from the reciprocating jurisdiction or licensing agency.

[118.12.1.3]117.13.1.3 Cross-connection training. Master Plumber applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor or have a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state, that is acceptable to the Commission, within 3-years [prior to]BEFORE application.

[118.12.1.4]117.13.1.4 Exam verification. Master Gasfitter applicants shall present a validated Commission exam verification form from the reciprocating jurisdiction or licensing agency, verifying that the applicant has passed a separate master gasfitter exam.

[118.12.1.5]117.13.1.5 License and registration. Satisfy the requirements set forth in Sections [118.1]117.1 and [118.9]117.10.

[118.12.1.6]117.13.1.6 License invalidation. A Commission license issued pursuant to the provisions set forth herein shall become null and void if the applicant's license from the jurisdiction or licensing agency from which it was reciprocated becomes revoked, suspended, lapsed, or otherwise invalidated.

[118.12.2]117.13.2 Master Plumber or Master Gasfitter, with license from a jurisdiction not having reciprocity with the Commission. Applicants shall qualify for the exam as a WSSC-Licensed Master Plumber or Master Gasfitter upon satisfaction of the following conditions:

[118.12.2.1]117.13.2.1 Original license. Present a current Master Plumber or Master Gasfitter license issued by the jurisdiction or licensing agency.

[118.12.2.2]117.13.2.2 Work experience. Applicants shall furnish satisfactory proof of work experience that is equivalent to the combined work experience requirements for a WSSC-Licensed Master License and a WSSC-Licensed Journeyman license. Work experience requirements for the original license shall be considered satisfactory proof of work experience.

[118.12.2.3]117.13.2.3 Good standing. Present a letter of good standing from the jurisdiction or licensing agency.

[118.12.2.4]117.13.2.4 Cross-connection training. Master Plumber applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor or have a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state, that is acceptable to the Commission, within 3-years [prior to]BEFORE application.

[118.12.2.4]117.13.2.4 License and registration. Satisfy the requirements set forth in Sections [118.1]117.1 and [118.9]117.10.

[118.12.2.5]117.13.2.5 References. For all prospective licensees, referral and character evidence furnished by the applicant upon application for registration shall be obtained from a minimum of 3 persons. References listed on the application shall be employers or persons acquainted with the applicant's trade qualifications and character.

[118.12.3]117.13.3 Journeyman Plumber or Journeyman Gasfitter, with license from a jurisdiction having reciprocity with the Commission. The Commission shall reciprocate at the journeyman licensee level with a jurisdiction where the applicant has passed a plumbing exam, gasfitting exam, or combination plumbing and gasfitting exam, acceptable to the Code Official. Applicants shall qualify for registration as a WSSC-Licensed Journeyman Plumber or Journeyman Gasfitter upon satisfaction of or pursuant to the following conditions:

[118.12.3.1]117.13.3.1 Current license. Present a current Journeyman Plumber or Journeyman Gasfitter license issued by the reciprocating jurisdiction or licensing agency.

[118.12.3.2]117.13.3.2 Good standing. Present a letter of good standing from the reciprocating jurisdiction or licensing agency.

[118.12.3.3]117.13.3.3 Cross-connection training. Journeyman Plumber applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved

cross-connection and backflow prevention certified course instructor or have a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state, that is acceptable to the Commission, within 3-years [prior to]BEFORE application.

[118.12.3.4]117.13.3.4 Exam verification. Journeyman Gasfitter applicants shall present a validated Commission exam verification form, from the reciprocating jurisdiction or licensing agency, verifying that the applicant has passed a separate Journeyman Gasfitter exam.

[118.12.3.5]117.13.3.5 License and registration. Satisfy the requirements set forth in Sections [118.1]117.1 and [118.9]117.10.

[118.12.3.6]117.13.3.6 License invalidation. A Commission license issued pursuant to the provisions set forth herein shall become null and void if the applicant's license from the jurisdiction or licensing agency from which it was reciprocated becomes revoked, suspended, lapsed, or otherwise invalidated.

[118.12.4]117.13.4 Journeyman Plumber or Journeyman Gasfitter, with license from a jurisdiction not having reciprocity with the Commission. Applicants shall qualify for the exam as a WSSC-Licensed Journeyman Plumber or Journeyman Gasfitter upon satisfaction of the following conditions:

[118.12.4.1]117.13.4.1 Current license. Present a current Journeyman Plumber or Journeyman Gasfitter license issued by the jurisdiction or licensing agency.

[118.12.4.2]117.13.4.2 Work experience. Applicants shall furnish satisfactory proof of work experience that is equivalent to the combined work experience requirements for a WSSC-Licensed Journeyman license. Work experience requirements for the original license shall be considered satisfactory proof of work experience.

[118.12.4.3]117.13.4.3 Good standing. Present a letter of good standing from the jurisdiction or licensing agency.

[118.12.4.4]117.13.4.4 Cross-connection training. Journeyman plumber applicants shall have a certificate of completion for a 32-hour cross-connection and backflow prevention training program instructed by an approved cross-connection and backflow prevention certified course instructor or have a certificate of completion for a cross-connection and backflow prevention training program from another jurisdiction or state, that is acceptable to the Commission, within 3-years [prior to]BEFORE application.

[118.12.4.5]117.13.4.5 License and registration. Satisfy the requirements set forth in Sections [118.1]117.1 and [118.9]117.10.

[118.12.4.6]117.13.4.6 References. For all prospective licensees, referral and character evidence furnished by the applicant upon application for registration shall be obtained from a minimum of 3 persons. References listed on the application shall be employers or persons acquainted with the applicant's trade qualifications and character.

SECTION [119]118 CROSS CONNECTION/BACKFLOW PREVENTION CERTIFICATION TRAINING PROGRAM

[119.1]118.1 Certified training program. A program shall be eligible for approval by the Commission if the program meets the following:

[119.1.1]118.1.1 Certified instructor.

[119.1.1.1]118.1.1.1 Qualifications. In order to qualify to be a certified instructor, an individual shall have a certificate of completion from an instructional certification program sponsored by an organization recognized by the Chief Code Official, including the University of Florida TREEO center (TREEO), American Society of Sanitary Engineering (ASSE) instructor accreditation certification, and University of Southern California Foundation for Cross Connection Control and Hydraulic Research (FCCC&HR). Certified instructors shall maintain instructor certification by meeting the requirements of TREEO, ASSE, and FCCC&HR, which shall include completion of instructor recertification training or any other institution specific requirement as necessary to maintain a current certification.

[119.1.2]118.1.2 Course materials. The course materials shall include a cross connection/backflow prevention training manual prepared by one of the following, TREEO, ASSE, or FCCC&HR or approved by Chief Code Official.

[119.1.3]118.1.3 Course curriculum. At a minimum, the course curriculum shall include training in the following:

a. Introduction to backflow prevention
b. Hazards of cross connection/backflow
c. Laws of backflow prevention

d. Responsibilities of certified technician
e. The methods, mechanisms, and installation techniques for the prevention of backflow
f. Field testing
g. Field reports
h. Troubleshooting
i. Repair of a backflow occurrence
j. Recertification

[119.1.4]118.1.4 Facility. The instructional certification program shall be conducted at a facility that provides adequate space and a suitable training environment.

[119.1.4.1]118.1.4.1 Inspection accessibility. A Code Official shall be granted access for inspect of the facility during normal business and class hours.

[119.1.4.2]118.1.4.2 Apparatus. At a minimum, the facility shall be equipped with the following training apparatus:

a. A test kit.
b. One of each mechanical cross connection control device and assembly necessary for compliance with ASSE 1011, 1012, 1013, 1015, 1019, 1020, 1022, 1024, 1035, and 1056.
c. Mechanical cross-connection control assembly set up for field testing.

[119.2]118.2 Certificate. The certified instructor shall issue a certificate of completion to each individual who successfully completes the program with the following:

a. The name and signature of the certified instructor.
b. The name of the certified Cross-Connection Technician to whom the certificate is issued.
c. A statement that the course constitutes a 32-hour cross connection/backflow prevention certification program approved by the Commission.
d. The date of completion or certification.

[119.3]118.3 Pocket identification card. The certified instructor shall issue a pocket identification card that includes: the name of the certified cross-connection technician to whom it is issued, the title “Certified Cross-Connection Technician” and the dates which the certification is valid.

[119.4]118.4 Recertification offer. The certified training program shall offer recertification every 3 years.

[119.5]118.5 List of certified instructors. RSD shall keep a list of certified instructors.

[119.6]118.6 Authorization for work. Completion of a Commission approved cross connection/backflow prevention certification program does not authorize an individual to install, test, or certify mechanical cross-connection control assemblies.

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CHAPTER 2 DEFINITIONS

SECTION 201 GENERAL

201.1 Definitions, generally. In addition to the definitions set forth in the model codes adopted and incorporated by reference in this Code (see Section 101.3) and the definitions set forth in the Public Utilities Article of the Annotated Code of Maryland, the definitions set forth in Section 203 of this Code and Chapter 2 of the IPC and Chapter 2 of IFGC apply to the provisions of this Code. Definitions in Chapter 2 of this Code shall apply to this Code, and adopted model codes, and supersede the definitions in the IPC and IFGC.

201.1.1 Ordinary words. Ordinary words not otherwise defined in this Code are used in accordance with their established dictionary meanings to further the purpose of this Code.

201.2 Industrial and special waste. In addition to the definitions set forth in this Chapter 2 of this Code, the definitions set forth in Section 801.2 specifically apply to the provisions of Chapter 8, "Industrial and Special Waste" of this Code.

SECTION 202 ACRONYMS

AHJ. Authority Having Jurisdiction

ANSI. American National Standards Institute

ASME. American Society of Mechanical Engineers

ASSE. American Society of Sanitary Engineering

ASTM. American Society for Testing and Materials

AVB. Atmospheric Vacuum Breaker

AWWA. American Water Works Association

CAN/CSA. CSA standards adopted as Canadian national standards

CCTR. Cross-Connection Test Report

CSA. CSA group: product certification and standards development

DCDA. Double Check Detector Assembly

DCVA. Double Check Valve Assembly

DFU. Drainage Fixture Units

FBGI. Flow-Based Grease Interceptor

FM. Factory Mutual

FOG. Fats, Oil, and Grease

FSE. Food Service Establishment

GRD. Grease Removal Device

HCVB. Hose Connection Vacuum Breaker

IBC. International Building Code

ICC. International Code Council

IFGC. International Fuel Gas Code

IPC. International Plumbing Code

IRC. International Residential Code

MOSHA. Maryland Occupational Safety and Health Act

MSU. Minor Site Utility

NFPA. National Fire Protection Association

NOV. Notice of Violation

NSF. National Sanitation Foundation

OSHA. Occupational Safety and Health Administration

PDI. Plumbing and Drainage Institute

PVBA. Pressure Vacuum Breaker Assembly

RPBA. Reduced Pressure Backflow Assembly

RPDA. Reduced Pressure Detector Assembly

RSD. Regulatory Services Division

SDC. System Development Charge

SU. Site Utility

SVBA. Spill-resistant Vacuum Breaker Assembly

UL. Underwriters Laboratory

USC. University of Southern California

VBGI. Volume-Base Grease Interceptor

WSFU. Water Supply Fixture Units

WSSC. Washington Suburban Sanitary Commission

SECTION 203 ADDITIONAL DEFINITIONS

"**Abut**" means to touch or to be adjacent to something along one side.

"**Air gap (drainage system)**" means the unobstructed vertical distance through the free atmosphere between the outlet of the waste pipe and the flood level rim of the receptacle into which the waste pipe is discharging.

"**Air gap (water distribution system)**" means the unobstructed vertical distance through the free atmosphere between the lowest opening from any pipe or faucet supplying water to a tank, plumbing fixture or other device and the flood level rim of the receptacle.

"**Applicant built service connection**" means an applicant-built permit is for service connection that will be constructed or abandoned and financed by the owner or their designees.

"**Approved**" means acceptable to the Code Official as meeting an applicable standard, specification, requirement, or as suitable for proposed use.

"**Auxiliary water supply**" means any water supply on or available to the premises that does not come from the Commission's approved public potable water supply. auxiliary water supply may include water from another water purveyor's public potable water supply; any natural source, such as a well, lake, spring, river, stream, or harbor ; or used waters, reclaimed waters, recycled waters, or industrial fluids.

"**Backflow**" means the undesirable reversal of flow of a liquid, gas, or other substances in a potable water distribution piping system as a result of a cross-connection.

"**Backflow preventer**" means an assembly, device, or method that prohibits backflow.

"**Backpressure**" means a pressure, higher than the supply pressure, caused by a pump, elevated tank, boiler, air or steam pressure, or any other means, which may cause backflow.

"**Backsiphonage**" means a type of backflow where the upstream pressure to a piping system is reduced to a sub atmospheric pressure.

"**Board**" means the WSSC Plumbing and Fuel Gas Board.

"**Building sewer**" means that part of the drainage system, including appurtenances, that extends from the end of the building drain and continues to the point of connection at the Commission service connection, right-of-way service connection, inlet to a private sewage disposal system (septic tank), or other point of disposal.

"**Building water service**" means the part of water service that begins at the point of connection to the Commission service connection, right-of-way service connection, well casing, or other source of supply and continues to the main water service valve.

"**Chief Code Official**" means the manager of the Commission's Regulatory Services Division.

"**Code**" means the WSSC Plumbing and Fuel Gas Code.

"**Code Official**" means any individual charged by the Commission with the administration and enforcement of this Code. Code Officials includes inspectors, investigators, plans reviewers, support specialist, permit agents, meter personnel, Commission police, Utility Services Division personnel and any related supervisors.

"**Commission**" means the Washington Suburban Sanitary Commission or its duly authorized agents acting within the scope of duties entrusted to them.

"**Containment**" means the appropriate type or method of backflow prevention at the beginning of the service connection or immediately inside the building, commensurate with the degree of hazard of the property owner's potable water system.

"**Cooking appliance**" means any appliance, regardless of heat source, capable of contributing .to grease-laden wastewater discharges from a food service establishment including the following: stove tops, ranges, ovens, grills, fryers, rotisseries, woks, kettles, and braising pans.

"**Cross-connection**" means any physical connection or a potential arrangement between any part of a potable water system and any other environment containing substances in a manner that, under any circumstances, would allow such substances to enter the potable water system or cause pollution or contamination of potable water system.

"**Cross-connection control**" means a program to eliminate, monitor, protect and prevent cross-connections from allowing backflow.

"**Cross-connection technician**" means the holder of a Commission issued license for a Cross-Connection Technician.

"**Customer**" means a member of the regulated community which may be a property or building owner, tenant, occupant, or other controlling entity over any portion of a property's water distribution system, water utilizing equipment, or drainage system.

"**Degree of hazard**" means an actual or potential threat of contamination or pollution, classified as either high hazard or low hazard, to a potable water system.

"DIRECTION AND CONTROL" MEANS THE MINIMUM REQUIRED SUPERVISION OF LICENSEES BY A JOURNEYMAN OR MASTER LICENSEE UNDER SECTION 117.6.

"**Domestic hot water**" means hot water supplied to residential type plumbing fixtures including showers, bathtubs, lavatory sinks, residential type kitchen sinks, and residential type clothes washers for use in all occupancy types.

Domestic hot water is limited to 140°F. Commercial and industrial applications such as culinary, laundering, laboratory and similar processes are not subject to the limits of domestic hot water.

"**ePermitting**" means the Commission's electronic permitting application system.

"**ePlan review**" means the Commission's electronic plan review system.

"**Fat**" means fats, oils, and grease of organic (animal or plant) origin, see FOG.

"**Flow-based grease interceptor**" means a grease interceptor with design based on flow rate, with two subcategories; mechanical flow-based grease interceptor and passive flow-based grease interceptor.

"**Flow control device**" means a device installed upstream of or within the interceptor, having an orifice that controls the rate of flow through the flow-based grease interceptor.

"**FOG**" means fats, oils, and grease of organic, animal or plant, origin. FOG is common in FSEs, sources and examples of FOG include meat, fish, fish oil, lard, tallow, nuts, certain nut oils, plant/vegetable oils, dairy products, soups, gravies, certain condiments, mayonnaise, salad dressings, sauces, pastas, poultry, waxes, butter and margarine. Also referred to as grease-laden.

"**Food service establishment**" means where food is served to or provided for the public, with or without charge, including**[**, but not limited to**]** restaurants, cafeterias, hotel kitchens, church kitchens, school kitchens, hospital cafeterias, bars; or any other commercial operation that has the potential to discharge grease-laden wastewater.

"**Grease**" means fats, oils, and grease of organic (animal or plant) origin or oils and grease of petrochemical origin. For grease of organic origin, see fog. Oils and grease of petrochemical origin are commonly used as lubricants and fuels, including heating oil, and motor and machine oil.

"**Grease abatement systems**" means a plumbing system designed to collect and remove fog from FSE, including waste and vent piping, waste receptors, plumbing fixtures, and grease interceptors.

"**Grease interceptor**" means a plumbing appurtenance designed to remove FOG from FSE wastewater, with two subcategories; volume-based grease interceptor and flow-based grease interceptor.

"Grease removal device (GRD)" see mechanical-flow based grease interceptor.

"**Grinder pump**" means sewage pump that macerates waste during the pumping operation.

"**Group R-3 occupancies**" means residential where the occupants are primarily permanent in nature and not classified as Group R-1, R-2, R-4 or I, including:

Buildings that do not contain more than two dwelling units
Attached one- and two- family dwellings and townhouses
Care facilities that provide accommodations for five or fewer persons receiving care
Congregate living facilities (nontransient) with 16 or fewer occupants
Boarding houses (nontransient)
Convents
Dormitories
Fraternities and sororities
Monasteries
Congregate living facilities (transient) with 10 or fewer occupants
Boarding houses (transient)
Lodging houses (transient) with five or fewer guest rooms and 10 or fewer occupants

"**Guarded domestic hot water delivery outlet**" means faucets and other delivery outlets that incorporate a form of scald prevention or tempering as required by this Code, items include bathtubs, showers, bidets, public hand washing facilities.

"**High hazard**" means a cross-connection or potential cross-connection that may result in contamination.

"**Isolation**" means backflow preventer installed to protect against backflow at individual cross-connections.

"**Licensee**" means the holder of a Commission issued license.

"**Low hazard**" means a cross-connection or potential cross-connection connection that may result in pollution.

"**Low pressure sewer system**" means a collection system of small-diameter pipes in the public right-of-way through which wastewater is forced by pressure from individual customers' grinder pumps. Low pressure sewer system are public systems and usually have more than one customer. Formerly known as a grinder system.

"**Mechanical flow-based grease interceptor**" means a flow-based grease interceptor with integral mechanical FOG removal features. also referred to as a grease removal device.

"**Meter**" means a device used to measure water or wastewater for determining billing or other accountable purpose.

"**Detector check meter**" means a meter that is installed in a bypass arrangement with a DCDA (ASSE 1048) or RPDA (ASSE 1047) and used to measure a portion of water used in a fire sprinkler system.

"**Domestic meter**" means a meter that is used to measure all water use and consumption other than fire sprinkler system.

"**Effluent meter**" meter means a meter that is used to measure wastewater flow.

"**Fire hydrant meter**" means a meter that is connected to a fire hydrant to measure water use for temporary or seasonal applications.

"**FM meter**" means an FM approved meter.

"**Hose bibb meter**" means a meter that is used to measure water-only use, including, in multi-unit buildings with a dedicated branch to an outdoor only and entire properties that are not connected to a Commission sewer service line.

"INDIVIDUAL METER" MEANS A METER THAT IS USED TO MEASURE ALL DOMESTIC WATER USAGE FOR EACH INDIVIDUAL TENANT OR DWELLING UNIT ON A MULTIPLE OCCUPANCY BUILDING WITHOUT A MASTER METER.

"**Master meter**" means a meter used to measure all flow domestic and fire sprinkler water.

"**Private meter**" means a meter that is not owned by and not maintained by the Commission.

"**Sewer-only meter**" means a meter that measures domestic water consumption, originating from a source other than a Commission water service line, for purposes of establishing sewer billing charges.

"**Submeter**" means a secondary meter installed in series and downstream of a domestic meter or master meter to determine water consumption to determine sewer credit.

"**Minor site utility**" means a site-utility design of less complexity or developed length that is waived from the site-utility document review process as outlined in the WSSC Development Services Code.

"**Miscibility**" means the ability for two or more liquids to fully dissolve in each other to form a uniform, undivided blend. These liquids can be further characterized as fully miscible; partially miscible; and immiscible.

"**Misconduct**" means the use of abusive language, threats, mischievous or criminal acts, directed toward the public while providing services, or toward a Code Official while performing their official duties.

"**Mixed-use building**" means a building with both dwelling and commercial units.

"**Non-guarded domestic hot water delivery outlet**" means faucets and other delivery outlets that do not incorporate a form of scald prevention or tempering as allowed by this Code. Items include, but are not limited to, residential lavatories, laundry sinks, pantry and break room sinks, patient room sinks, bar sinks, shampoo sinks, residential type kitchen sinks, classroom sinks, and general use hose bibbs.

"**Non-residential building or occupancy**" means any building type or occupancy that does not meet the parameters of a Group R-3 occupancy as set forth in the International Building Code.

"**Non-testable backflow prevention device**" means a mechanical non-testable apparatus which is designed to protect against backflow.

"**Off-property**" means water and sewer lines and appurtenances that are located in an easement granted to the Commission or a public right-of-way and are responsibility of the Commission or municipality.

"**Oil**" means refer to fats, oils, and grease of organic (animal or plant) origin or oils and grease of petrochemical origin. For oil of organic origin, see FOG. Oils and grease of petrochemical origin are commonly used as lubricants and fuels, examples include heating oil, and motor and machine oil.

"**Oil and sand interceptor**" means a plumbing appurtenance designed to remove solids, sand, and grit; and oil and grease of petrochemical origin from wastewater.

"**On-property**" means water and sewer lines and appurtenances that are located on private property and are the responsibility the property owner.

"ONSITE GREASE SYSTEM" MEANS A GREASE INTERCEPTOR THAT IS THE RESPONSIBILITY OF A PERSON OTHER THAN AN INDIVIDUAL FSE. EXAMPLES INCLUDE GREASE INTERCEPTORS THAT ARE SHARED BY MULTIPLE TENANTS, SUCH AS GHOST OR COMMISSARY KITCHENS WITH ROTATING FSES, GREASE INTERCEPTORS THAT SERVE MULTIPLE FOOD TRUCKS, AND GREASE INTERCEPTORS SHARED BY MULTIPLE TENANTS AS PART OF A SHOPPING CENTER OR MALL.

"**Original license**" means a license that is obtained through Commission exam and not obtained through reciprocity.

"**Passive flow-based grease interceptor**" means a flow-based grease interceptor without integral mechanical fog removal features.

"**Permittee**" means the person responsible as indicated on a permit.

"**Person**" means any individual; partnership; co-partnership; firm; company; corporation; association; joint stock company; trust; estate; federal, state, and local governmental entity; society; group; or any other legal entity; or their legal representatives, agents, assigns or governmental entities.

"**Point of delivery**" means, for natural gas systems, the outlet of the service meter assembly or the outlet of the service regulator or service shutoff valve where a meter is not provided. Where a valve is provided at the outlet of the service meter assembly, valve shall be considered to be downstream of the point of delivery.

"**Point of delivery**" means, for LP-gas systems, the outlet of the second-stage pressure regulator, twin stage regulator, or regulator that provides utilization pressure, exclusive of line gas regulators, in the system.

"PROPERTY CONTAINMENT" MEANS CONTAINMENT BACKFLOW PREVENTION THAT IS MEANT TO CONTAIN AN ENTIRE PROPERTY OR TRACT OF LAND AS OPPOSED TO A SINGLE BUILDING.

"**Provide gasfitting services**" means installation, maintenance, extension, alteration, and removal of piping, gas-fired equipment, appliances, or appurtenances in connection with a natural gas or LP-gas supply system downstream of the point of delivery.

"**Provide plumbing services**" means installation, maintenance, extension, alteration, and removal of piping, plumbing fixtures, plumbing appliances, plumbing appurtenances, or other plumbing apparatus.

"**Provide sewer and drain cleaning services**" means the clearing of stoppages in drainage piping.

"**Principal licensee**" means a licensee that registers with the Commission as the primary licensee representing themselves or a group of persons.

"**Private**" means in the classification of plumbing fixtures, applies to fixtures within bathroom groups located in residences, apartments, condos, hotels, motels and similar installations in buildings where the plumbing fixtures are intended for utilization by occupants and their guests, and to fixtures within private portions of public spaces.

"**Public**" or "**public utilization**" means in the classification of plumbing fixtures, applies to fixtures that are not private. Examples include fixtures in general toilet rooms of schools, gymnasiums, hotels, airports, bus and railroad stations, public buildings, bars, public comfort stations, office buildings, stadiums, stores, restaurants and other installations where a number of fixtures are installed so that their utilization is similarly unrestricted.

Public handwashing facility:

"**Public hand washing facility**" means lavatory or group hand washing fixture located in a public toilet facility or other hand wash operation to be used by customers, patrons, employees, patients, inmates and visitors.

"**Public hand washing facility**" includes patient service areas, wash fountains, detention center including cells, classroom sinks, and general hand sinks.

"**Rebuild**" means, for a testable backflow prevention assembly, removal and replacement of all or selected assembly components.

"**Rebuild**" means, for a non-testable backflow prevention device, removal and replacement of all internal device components.

"**Reciprocal license**" means a license that is obtained thru reciprocity with an original license.

["**Reprimand**" means a formal written notification to a licensee, that the licensee has committed one or more serious code violations, but less serious than that which would warrant a recommendation for suspension or revocation of their license.**]**

"**Residential**" means any building type or occupancy that meets the parameters of a Group R-3 occupancy as set forth in the International Building Code.

"RESTORATION" MEANS ALTERNATIVE METHODS OF PIPE REPAIR AND REPLACEMENT, INCLUDING CURED-IN-PLACE-PIPING, PIPE BURSTING, AND PIPE RELINING SYSTEMS.

"**Revocation**" means a formal written notification to a licensee, that the licensee has committed one or more serious code violations, that warrants termination of their license for an extended period, generally in years.

"**Right-of-way**" means an area dedicated by plat or deed for public use such as a street or road.

"**Sanitary District**" means the Washington Suburban Sanitary District, as described in Chapter 805 of the acts of the General Assembly of 1981. Generally, the entirety of Montgomery and Prince George's counties, Maryland, excluding certain incorporated city limits and federal properties.

"**Service connection**" means in general, a lateral service pipe that is constructed by the Commission or its designee, from a Commission water or sewer main to a property line, edge of a public right-of-way, or edge of an easement and right-of-way granted to the Commission, whichever is closer to the building that the lateral service pipe serves.

"**Shared site utility system agreement**" means a recorded arrangement approved by the Commission where a shared service connection is allowed to serve multiple properties or buildings, other than Group R-3 occupancies, that are under separate ownership but located on a common tract of land.

"**Site utility**" means a system of privately-owned, operated, and maintained water or sewer mains located on private property.

"**Soap test**" means as prescribed in this Code, any liquid producing visible bubbles or changing appearance, when applied to a leaking pipe.

"**Stoppage**" means a clog or obstruction in a building sewer or drain that cannot be readily relieved by a sewer and drain cleaner.

"**Hard stoppage**" means a clog or obstruction in a building sewer or drain that cannot be readily relieved by a sewer and drain cleaner, utilizing proper-sized and type rotating drain cleaning equipment.

Examples of a hard stoppage include root intrusions, broken or misaligned pipe, a solidified mass that cannot be dislodged, and permanent objects in the pipe.

"**Soft stoppage**" means a clog or obstruction in a building sewer or drain caused by an over-accumulation of normal sewage solids, that can be readily relieved by a sewer and drain cleaner, utilizing proper-sized and type rotating drain cleaning equipment.

"**Suspension**" means a formal written notification to a licensee, that the licensee has committed one or more serious code violations, that warrants termination of their license for a specified period , but less serious than that which would warrant a revocation of their license.

"**System development charge**" means an impact fee established by Section 25-401 and 25-405 of the Public Utilities Article, Annotated Code of Maryland, to recover cost of growth related facilities within the Sanitary District.

"**Testable backflow prevention assembly**" means a mechanical testable apparatus which is the entire backflow prevention unit, including not only the mechanism that actually prevents backflow, but also the shutoff valves and test cocks.

"**Townhouse**" means a single-family dwelling unit constructed in a group of three or more attached units in which each unit extends from foundation to roof and with a yard or public way on not less than two sides.

"**Ventilated space**" means a space within a building that allows air or gases to freely exchange with any unconfined space or outdoors. Building structural voids such as chases, wall cavities, and similar dead spaces shall not be utilized as a ventilated space.

The air exchange opening shall be adequately sized to accommodate the equipment and appurtenances within the space but in no case less than 7 square inches (4,516 square mm) and where no dimension is smaller than 3 inches (76 mm).

"**Visible ready access area**" means a space within a building where daily activity is expected; whereby items requiring observation are visible and abnormalities will not go undetected.

"**Volume-based grease interceptor**" means a grease interceptor design based on volume and retention time.

"**Water dispenser**" means a plumbing fixture that is manually controlled by the user for the purpose of dispensing potable drinking water into a receptacle such as a cup, glass or bottle. Such fixture is connected to the potable water distribution system of the premises. This definition includes a freestanding apparatus for the same purpose that is not connected to the potable water distribution system and that is supplied with potable water from a container, bottle or reservoir.

"**Water re-use systems**" means a system that collects non-potable water and uses it for potable water uses in non-residential buildings.

"**WSSC Water**" means the brand name for the Washington Suburban Sanitary Commission, see Commission.

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CHAPTER 3 ADOPTION OF INTERNATIONAL PLUMBING CODE

SECTION 301 GENERAL

301.1 Adoption. The 2021 edition of the International Plumbing Code (IPC), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications set forth in this Chapter as amendments thereto.

301.2 Applicability. The IPC applies to all occupancies including Group R-3 occupancies, and their accessory structures.

301.3 Availability for review. At least one copy of the aforesaid IPC shall be filed in the Office of the Secretary of the Commission and made available for public use and inspection.

SECTION 302 AMENDMENTS TO THE INTERNATIONAL PLUMBING CODE

302.1 Amendment of IPC CHAPTER 1, "ADMINISTRATION". IPC Chapter 1, "Administration", is hereby DELETED in its entirety.

302.2 Reserved.

302.3 Amendment of IPC CHAPTER 3, "GENERAL REGULATIONS"

302.3.1 IPC Section 305.4, Freezing, is hereby AMENDED by ADDING provisions thereto, specifying certain freeze protection for piping, all to read as follows:

(IPC as amended)

305.4 Freezing. Water, soil and waste pipes shall not be installed outside of a building, in attic or crawl spaces, concealed in outside walls, or in any other place subjected to freezing temperatures unless adequate provision is made to protect such pipes from freezing by insulation or heat or both. Water piping installed in exterior walls, ceilings, and unprotected floor spaces shall be protected by a minimum R-24 insulation on the cold side of the piping, with no insulation on the warm side of the piping. Exterior water supply system piping shall be installed not less than 6 inches (152 mm) below the frost line and not less than 12 inches (304 mm) below grade. In Prince George's County and Montgomery County, exterior water supply system piping shall be installed not less than 30 inches (762 mm) below final grade.

302.3.2 IPC Section 305.4.1, Sewer depth, is hereby AMENDED by COMPLETING minimum cover depth dimensions for building sewers, all to read as follows:

(IPC as amended)

305.4.1 Sewer depth. Building sewers that connect to private sewage disposal systems shall be a minimum of 18 inches (457 mm) below finished grade at the point of septic tank connection. Building sewers shall be a minimum of 24 inches (609 mm) below grade.

302.3.3 IPC Section 305.4, Freezing, is hereby AMENDED by ADDING Section 305.4.2, to provide requirements for draining or protecting various seasonal applications as follows:

(IPC as amended)

305.4.2 Winterization. For seasonal uses, a means to facilitate de-watering water lines in areas subject to freezing and protection of fixture traps shall be provided as follows:

305.4.2.1 Drain. Piping arrangements shall include a means to drain water piping at all low points and a means to relieve any vacuum to enable drain down. For draining water piping at low points, opening fixture outlets, removing fixture stop valve components, boiler drains and similar drain ports are acceptable methods. Trapped piping arrangements shall be prohibited where piping is intended to be winterized.

305.4.2.2 Drain down pits prohibited. For below grade piping subject to freezing, drain down pits are prohibited and a means for forced air elimination of residual water must be provided.

305.4.2.3 Fixture traps. Fixture traps shall not be removed and they shall be filled with non-toxic (glycerin based) anti-freeze.

305.4.2.4 Hose bibb maintenance tag. Hose bibb shutoff valves shall be provided with a maintenance tag detailing winterization and start-up procedures.

302.3.4 IPC SECTION 306.2.4 TRACER WIRE, IS HEREBY DELETED IN ITS ENTIRETY. SEE SECTION 302.7.2 FOR BUILDING SEWER TRACER WIRE REQUIREMENTS.

[302.3.4]302.3.5 IPC Section 306, TRENCHING, EXCAVATION AND BACKFILL, is hereby AMENDED by ADDING Section 306.5, to designate responsibilities for geotechnical considerations as follows:

(IPC as amended)

306.5 Geotechnical considerations. The project owner and their design team shall be responsible for special geotechnical considerations relating to the proper installation and backfill of buried pipelines. The responsible parties shall notify the installers of any specific installation and backfilling criteria. The responsible parties shall also inspect and approve all aspects of trenching and backfill as related to special geotechnical considerations. Items of concern include fill, debris, groundwater, corrosion or unsuitable soil below the bottom of the trenching or the imposed loads placed onto the pipelines by mobile equipment or the backfill itself. In cases where unusual site conditions are encountered by the installer, the owner shall be notified.

[302.3.5]302.3.6 IPC Section [312.5]312.6, Water supply system test, is hereby AMENDED by ADDING provisions to recognize safe air testing practices for rigid plastic piping systems in winter months, all to read as follows:

(IPC as amended)

[312.5]312.6 Water supply system test. Upon completion of a section of or the entire water supply system, the system, or portion completed shall be tested and proved tight under a water pressure not less than the working pressure of the system; or, for piping systems other than plastic, by an air test of not less than 50 psi (344 kPa). This pressure shall be held for at least 15 minutes. The water utilized for tests shall be obtained from a potable source of supply. The required tests shall be performed in accordance with this section and Section [108]111. [Subject to Section 105.4.4, testing for plastic piping systems shall follow a two-step process in winter months:]

312.6.1 SUSPENSION OF TESTING IN WINTER. BETWEEN NOVEMBER 1 AND MARCH 31, TESTING FOR PLASTIC PIPING SYSTEMS IS SUSPENDED.

[a. The system shall be air tested with 5 psi (34 kPa)] before wall close-in [by the plumbing contractor using a safe and reliable method, see manufacture's recommendations and requirements. Air tests are prohibited if not approved by the manufacturers of all components and materials in the system being tested, including pipe, fitting, and solvent manufacturers. Plumber shall provide material specifications sheets and installation manuals to plumbing inspector. Do not leave air pressure charged on an unmanned project and no other work may be performed on premises during an air test].

b.]Then, after permanent heat is available and before final inspection, the plumbing contractor shall fill the water supply system with water equal to system working pressure. The water test shall be held for 24 hours without loss.

[302.3.6 IPC Section 312.6, Gravity sewer test, is hereby AMENDED by ADDING provisions to allow air as a test medium, all to read as follows:

(IPC as amended)

312.6 Gravity sewer test. Gravity sewer tests shall consist of plugging the end of the sewer at the point of connection with the public sewer, filling the building sewer with water or air, testing with 5 psi (34 kPa) of air or not less than a 10 foot (3,048 mm) head of water and maintaining such pressure for 15 minutes.]

302.3.7 IPC Section [312.10.2]312.11.2, Testing, is hereby AMENDED by REMOVING the requirement for test gauges to comply with ASSE 1064, all to read as follows:

(IPC as amended)

[312.10.2]312.11.2 Testing. Reduced pressure principle backflow preventer assemblies, double check-valve assemblies, pressure vacuum breaker assemblies, reduced pressure detector fire protection backflow prevention assemblies, double check detector fire protection backflow prevention assemblies, hose connection backflow preventers, and spill-resistant vacuum breakers

shall be tested at the time of installation, immediately after repairs or relocation, and at least annually. The testing procedure shall be performed in accordance with one of the following standards:

ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5052, ASSE 5056, CAN/CSA B64.10 or CSA B64.10.1.

302.3.8 IPC Section 314.1, Fuel-burning appliances, is hereby AMENDED by ADDING certain provisions thereto, specifying conditions under which condensate may be discharged to the Commission's sanitary sewer system, all to read as follows:

(IPC as amended)
314.1 Fuel-burning appliances. Liquid combustion by-products of condensing appliances shall be collected and discharged to an approved plumbing fixture or disposal area in accordance with the manufacturer's installation instructions, and shall be appropriately neutralized. See this Code Section 804.1. Condensate piping shall be of approved corrosion-resistant material and shall not be smaller than the drain connection on the appliance. Such piping shall maintain a minimum horizontal slope in the direction of discharge of not less than one-eighth unit vertical in 12 units horizontal (1-percent slope).

302.3.9 IPC Section 314.2.1, Condensate disposal, is hereby AMENDED by ADDING certain provisions thereto, specifying conditions under which condensate may be discharged to the Commission's sanitary sewer system, all to read as follows:

(IPC as amended)
314.2.1 Condensate disposal. Condensate from all cooling coils and evaporators shall be conveyed from the drain pan outlet to an approved place of disposal. Condensate shall not discharge into a street, alley or other areas so as to cause a nuisance.

302.3.10 IPC Section 314.2.1, Condensate disposal, is hereby AMENDED by replacing language for plumbing systems with sanitary systems, all to read as follows:

(IPC as amended)
314.2.1.1 Condensate discharge. Condensate drains shall not directly connect to any sanitary drain, waste or vent pipe. Condensate drains shall not discharge into a fixture other than a floor sink, floor drain, trench drain, mop sink, hub drain, standpipe, utility sink, laundry sink or approved receptor. Except where discharging to grade outdoors, the point of discharge of condensate drains shall be located within the same occupancy, tenant space or dwelling unit as the source of the condensate.

302.4 Amendment of IPC CHAPTER 4, "FIXTURES, FAUCETS AND FIXTURE FITTINGS"

302.4.1 IPC Section 405.3, Setting, is hereby AMENDED by ADDING Section 405.3.6 to establish a maximum height for specialty sinks and similar, all to read as follows:

(IPC as amended)
405.3.6 Front rim elevation. Unless specifically designed or approved otherwise, specialty sinks, such as food service compartment sinks, shall be installed with the front rim elevation of the sink not greater than 36 inches (914 mm) above finished floor.

302.4.2 IPC Section 406.3, Waste Connection, is hereby AMENDED to CLARIFY washing machine waste lines do not have to connect to a 3 inch (76 mm) drain or stack, all to read as follows:

(IPC as amended)
406.3 Waste Connection. The waste from an automatic clothes washer shall discharge through and air break into a standpipe in accordance with Section 802.4 or into a laundry sink. The trap and fixture drain for an automatic clothes washer standpipe shall be a minimum of 2 inches (51 mm) in diameter. The automatic clothes washer fixture drain shall connect to a branch drain or drainage stack a minimum of 3 inches (76 mm) in diameter in other than Group R-3 occupancies; and of 2 inches (51 mm) in diameter for Group R-3 occupancies. Automatic clothes washers that discharge by gravity shall be permitted to drain to a waste receptor or an approved trench drain.

302.4.3 IPC Section 410.4, Substitution, is hereby AMENDED by MODIFYING Section 410.4 to allow substitution of water dispensers for drinking fountains, all to read as follows:

(IPC as amended)

410.4 Substitution. Where restaurants provide drinking water in a container free of charge, drinking fountains shall not be required in those restaurants. In other occupancies where drinking fountains are required, water dispensers shall be permitted to be substituted for any required drinking fountain. If water dispensers are substituted for more than 50% of the required quantity of drinking fountains for any floor or building area, the property owner is responsible for providing cups to users, free of charge.

302.4.4 IPC Section 412.1, Approval, is hereby AMENDED by MODIFYING Section 412.1 to align with and incorporate federal regulations mandating low lead plumbing fixtures, fittings and other components and further AMENDED by ADDING Section 424.1.3 to ensure that fixture components and appurtenances match fixture flow characteristics, all to read as follows:

(IPC as amended)

412.1 Approval. Faucet and fixture fittings shall conform to ASME A112.18.1/CSA B125.1. Faucet and fixture fittings that supply drinking water for human ingestion shall conform to the requirements of NSF 61, Annex G and NSF 372. Flexible water connectors exposed to continuous pressure shall conform to the requirements of Section 605.6.

424.1.3 Compatibility. All components used to deliver domestic hot water, such as temperature control or limiting devices and their corresponding shower heads and aerators, shall be compatible and incorporate similar flow ratings.

302.5 Amendment of IPC CHAPTER 5, "WATER HEATERS"

302.5.1 IPC Section 501, GENERAL, is hereby AMENDED by ADDING Sections 501.1.1 through 501.1.4 to provide scope of applicability and parameters for minimum and maximum water temperature for domestic hot water, all to read as follows:

(IPC as amended)

501.1.1 Applicability. The provisions contained within Chapter 5 of the IPC and herein shall be applicable to new construction and replacement of domestic hot water generating equipment.

501.1.2 Recommended minimum best practices. In order to safeguard against scalding as well as water borne bacteria growth, an optimal hot water system will incorporate all of the following parameters:

501.1.2.1 Guarded domestic hot water delivery outlets. Guarded domestic hot water delivery outlets incorporate a form of scald prevention or tempering to safeguard the user from scalding while allowing higher water temperatures in distribution piping.

501.1.2.2 Storage temperature. Water Storage at 140°F (60°C) or greater.

501.1.2.3 Master mixing valve. Domestic hot water is tempered by a master thermostatic mixing valve, complying with ASSE 1017, to limit the water delivered at any non-guarded domestic hot water delivery outlet to a maximum temperature of 125°F (52°C).

501.1.2.4 Intent. As a recommendation, the above shall not be construed as a code requirement. The intent is to identify potential scalding and bacterial growth hazards associated with hot water systems.

501.1.3 Minimum and maximum storage temperatures. Where water is stored for domestic use, the water within the storage tank shall maintain a minimum of 120°F (48°C), not including draw down and recovery. Where an ASSE 1017 master thermostatic mixing valve is not used, hot water storage temperatures shall not exceed 125°F (52°C).

501.1.4 Maximum delivery temperature. In general, domestic hot water temperature shall be limited to 140°F (60°C) at any point of delivery from the distribution system. Where guarded domestic hot water delivery outlets are not used (older construction), hot water delivery temperatures shall not exceed 125°F (52°C).

302.5.2 IPC Section 501, GENERAL, is hereby AMENDED by ADDING Sections 501.9 and 501.10, to provide requirements for mixing valves to be utilized for all adult care and child care fixtures and where any heat transfer systems produces domestic hot water, all to read as follows:

(IPC as amended)

501.9 Nursing homes, hospitals and adult and child care facilities. A master thermostatic mixing valve complying with ASSE 1017 shall be provided to safeguard the temperature of the water delivered from the potable domestic hot water distribution system. See Section 501.1.4. The potability of the water shall be maintained throughout the system.

501.10 Heat transfer systems. A master thermostatic mixing valve complying with ASSE 1017 shall be provided to safeguard the temperature of the water delivered from the potable domestic hot water distribution system. See Section 501.1.4. The potability of the water shall be maintained throughout the system.

302.5.3 IPC Section 501, GENERAL, is hereby AMENDED by ADDING Sections 501.11 and Table 501.11, to provide guidelines for minimum sizing criteria for storage and instantaneous type water heaters, all to read as follows:

(IPC as amended)

501.11 Water heater sizing. Storage type water heating appliances, serving singular residential units, are recommended to meet the minimum sizing criteria as shown in Table 501.11. For all other occupancies, an adequate capacity of hot water shall be provided to meet peak demand. Where instantaneous water heating is used, sizing of the water heater(s) shall be based on hot water demand as established under IPC Appendix E; use Tables E103.3(2) and E103.3(3) to establish the minimum required hot water gpm flow.

First Hour Rating[1]

Number of Bathrooms	1 to 1.5			2 to 2.5				3 to 3.5			
Number of Bedrooms	1	2	3	2	3	4	5	3	4	5	6
First Hour Rating, Gallons	42	54	54	54	67	67	80	67	80	80	80

[1] The first hour rating is found on the "Energy Guide" label

Table 501.11

302.5.4 IPC Section 504.7, Required pan, is hereby AMENDED to CLARIFY where water heater safe pans shall and shall not be required, to avoid conflict with subsequent IPC prescriptive language that is not enforceable in a practical manner, all to read as follows:

(IPC as amended)

504.7 Required pan. **WHERE A STORAGE TANK-TYPE WATER HEATER OR A HOT WATER STORAGE TANK IS INSTALLED IN A LOCATION WHERE WATER LEAKAGE FROM THE TANK WILL CAUSE DAMAGE, THE TANK SHALL BE INSTALLED IN A PAN CONSTRUCTED OF ONE OF THE FOLLOWING:**

1. **GALVANIZED STEEL OR ALUMINUM OF NOT LESS THAN 0.0236 INCH (0.6010 MM) IN THICKNESS.**
2. **PLASTIC NOT LESS THAN 0.036 INCH (0.9 MM) IN THICKNESS.**
3. **OTHER APPROVED MATERIALS.**

A PLASTIC PAN INSTALLED BENEATH A GAS-FIRED WATER HEATER SHALL BE CONSTRUCTED OF MATERIAL HAVING A FLAME SPREAD INDEX OF 25 OR LESS AND A SMOKED-DEVELOPED INDEX OF 450 OR LESS WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL723.

WATER HEATERS INSTALLED IN PANS SHALL COMPLY WITH SECTION 314.2.3.2.

[Where water heaters or hot water storage tanks are installed in locations where leakage of the tanks or connections will cause damage, the tank or water heater shall be installed in a galvanized steel pan having a minimum thickness of 24 gauge, or other pans approved for such use. This requirement shall apply only to**]PANS ARE ONLY REQUIRED FOR** water heaters located above habitable space or the lowest habitable level. Pans shall not be required in basements or for slab-on-grade constructions, whether finished or unfinished.

302.6 Amendment of IPC CHAPTER 6, "WATER SUPPLY AND DISTRIBUTION"

302.6.1 IPC Section 601, GENERAL , is hereby AMENDED by ADDING Section 601.5, to provide requirements for futures, dead ends, dormant systems and seasonal uses or occupancies, all to read as follows:

(IPC as amended)

601.5 Futures, dead ends, dormant systems, and seasonal uses or occupancies. Provisions shall be provided to isolate unused or stagnant sections of water distribution piping. Examples of unused or stagnant sections of water distribution piping include pool houses; unoccupied suites; piping to future areas or fixtures not intended to be operational by the initial occupancy of a building; or sections or floors of a building being decommissioned during renovation projects where any part of the building will remain occupied. Provisions shall be made as follows:

601.5.1 Isolation valve. Each unused system or segment shall be provided with a valve within 12 inches (305 mm) of where the stagnant system or segment connects to an active potable water line, main or riser.

601.5.2 Flushing port. Within 12 inches (305 mm) downstream of the required isolation valve, each unused system or segment shall be provided with a flushing port to facilitate the independent flushing or disinfection of the stagnant section before operating the isolation valve and commissioning that system or segment.

601.5.3 Backflow preventer. As an alternate to the flushing port, a dual check backflow preventer (ASSE 1024) shall be installed within 12 inches (305 mm) downstream of the isolation valve.

601.5.4 Testable backflow assemblies. See this Code Section 508.2 for testing requirements for testable backflow assemblies serving any dormant use or seasonal uses such as irrigation, swimming pools, decorative fountains, etc.

601.5.5 Infrequently used fixtures. Water supply laterals serving infrequently used fixtures, including emergency showers and eye washes, shall connect directly to active water mains when possible, shall be as short as practical, and shall be flushed in adequate time and quantity to ensure the potability of the water within the laterals.

601.5.6 Activation. Before initial use or after a period of stagnation, any system described in Section 601.5 shall be determined potable through flushing, disinfection and testing, as needed, before activation with a potable system. (See IPC Section 602.3.4)

302.6.2 IPC Section 602.2, Potable water required, is hereby AMENDED by ADDING Section 602.2.1 and 602.2.2, to allow certain water re-use systems to supply non-potable water to toilets, urinals, mechanical systems or equipment cooling; and to recognize certain end-use fixtures as plumbing fixtures in order for Section 602.2 to be applicable to them, all to read as follows:

(IPC as amended)

602.2.1 Exception. Toilets, Urinals, Mechanical Systems and Equipment Cooling may utilize non-potable water under the provisions of Chapter 9 of this Code.

602.2.2 Applicability of end-use fixtures. Certain end-use fixtures **[**such as, but not limited to,**]** **FOR EXAMPLE,** hose bibbs, spray irrigation, **AND** self-service vehicle washing, **[**etc.**]** shall be considered plumbing fixtures and supplied with potable water unless otherwise approved by the Code Official. Emergency eye washes, showers, and drenching stations shall never be supplied with non-potable water.

302.6.3 IPC Section 603, WATER SERVICE, is hereby AMENDED by ADDING Sections 603.3, to provide provisions that will enable non-metallic water services constructed under this Code to be locatable, all to read as follows:

(IPC as amended)

603.3 Tracer wire. Non-metallic water services connecting to public or private supply systems shall be locatable. At a minimum, an insulated, solid, copper tracer wire, 10 awg minimum, and suitable for direct burial or an equivalent product shall be used. The wire shall be installed in the same trench as the water service within 12 inches (305 mm) of the pipe, from the building wall to the point where the pipeline connects to a public system (typically at the property line or a mainline right-of-way), or to a private system to the point of transition (typically the pitless adapter at the well casing).

603.3.1 Wire exposure. Where the water and sewer share a trench, the wire(s) may be routed to the terminus of the building sewer cleanout; when separated, rout the wire to the property-line valve box or well casing; or for outside meter only applications, a terminal post shall be

installed. In all cases, the wire shall be adequately exposed for future use by location detection equipment operators as follows:

603.3.1.1 Cleanout above grade. Where the cleanout terminates 6 inches (152 mm) above grade, the end of the wire shall be held in place by the cleanout cap or cover assembly.

603.3.1.2 Cleanout paved area. Where the cleanout terminates in paved areas, the end of the wire shall remain exposed within the void between the pipe and the cleanout access assembly.

603.3.1. Termination with exposed appurtenance. Where water and sewer are in separate trenches, the tracer wire shall wrap twice around the property-line valve box and the end of the wire left tucked inside the tightly fastened cover or is secured to the well casing in an approved manner.

603.3.1.4 Termination without exposed appurtenance. Where water and sewer are in separate trenches, without an exposed appurtenance, a terminal stake shall be installed within 2 feet (609 mm) of the foundation wall directly above where the water service enters the structure.

302.6.4 IPC Section 603, WATER SERVICE, is hereby AMENDED by ADDING Sections 603.4 and 603.5, to provide provisions limiting the length of underslab piping in coordination with provisions of National Fire Protection Association (NFPA) regarding accessibility of fire sprinkler system water services for maintenance and to specify the means of piping restraint, all to read as follows:

(IPC as amended)

603.4 Limit of underslab piping. For commercial applications where the water service conveys water for fire sprinkler system, the water service shall be routed vertical and penetrate the lowest relative slab within 5 feet (1,524 mm) of the outside wall which it passed under.

603.5 Restraint. For piping systems greater than 2 inches (609 mm) in diameter, restraint of the terminal end of horizontal piping and the final vertical spool section shall be as follows:

603.5.1 Through-wall. Through-wall applications require an engineered design (stamped and signed by a Maryland Professional Engineer), which may be part of a site utility or minor site utility plan. Piping shall not be restrained by anchoring to a cinder block wall or similar construction incapable of withstanding the horizontal surge pressures expected.

603.5.2 Restraining final service elbow. Restraining the final water service elbow (which directs the line vertical through the slab), with strapping, rods, retaining gland or other proprietary means of restraint shall require an engineered design (stamped and signed by a Maryland Professional Engineer), which may be part of a site utility or minor site utility plan.

603.5.3 Blocking. Blocking of the final water service elbow shall conform to the dimensions included in Commission Standard Detail B/1.0 and re-orient the block 90 degrees (1.57 rad) in relation to the elbow. Do not allow the concrete to impede the installation or service of the gland bolts or strapping and rodding.

603.5.4 Vertical spool. Unless part of an alternate engineered design (stamped and signed by registered design professional), the final vertical spool section shall be restrained to the final vertical elbow by strapping and rodding. The number and size of rods shall be per Table 603.5.4.

TABLE 603.5.4 ROD NUMBER - DIAMETER COMBINATIONS

NFPA 24 Table 10.8.3.1.2.2 Rod Number - Diameter Combinations

Nominal Pipe size (in.)	5/8 in. (15.9 mm)	3/4 in. (19.1 mm)	7/8 in. (22.2 mm)	1 in. (25.4 mm)
4	2	-	-	-
6	2	-	-	-
8	3	2	-	-
10	4	3	2	-
12	6	4	3	2
14	8	5	4	3
16	10	7	5	4

Note: This table has been derived using pressure of 225 psi (15.5 bar) and design stress of 25,000 psi (172.4 mPa)

302.6.5 IPC Section 604, DESIGN OF BUILDING WATER DISTRIBUTION SYSTEM, is hereby AMENDED by MODIFYING Section 604.1, to describe, and provide details for, the alternate means of sizing water distribution systems all to read as follows:

(IPC as amended)

604.1 General. The design of the water distribution system shall conform to accepted engineering practice. Methods utilized to determine pipe sizes shall meet one of the specified methods below:

604.1.1 IPC Appendix E, Section E103.3 Segment loss method. Professional designs shall be validated and approved by the Plans Review office.

604.1.2 IPC Appendix E, Section E201 Size of water-service mains, branch mains and risers.

604.1.2.1 Water service connections. Water service connections (Commission main to property line) for Group R-3 occupancies shall be sized per Section 604.1.3 below.

604.1.2.2 Meter and service pipe. Table E201.1 "Meter and Service Pipe" column is used to determine size of water service (on-property only); disregard meter size whether inside or outside. Use developed length from property line to service valve.

604.1.2.3 Distribution pipe. Table E201.1 "Distribution Pipe" column is used to determine size of distribution main (service valve to first major branch, riser, or water heater supply). Use developed length from service valve to most remote fixture.

604.1.2.4 Other segments. For all other segments, use developed length from distribution main to most remote fixture served through that segment.

604.1.3 Existing service connection size validation for renovation or additions to; or replacement of; or new Group R-3 occupancies (flush tank type toilets only):

604.1.3.1 Fire sprinkler system size. The following considerations shall only apply to domestic fixture demand sizing. Adequacy of an existing service connection to serve a fire sprinkler system shall be determined by the appropriate county or city fire protection review agency.

604.1.3.2 Limitations. The following considerations provide only a minimum standard of service; are to be considered as an alternative to expensive street excavation; and are not meant to serve a dwelling with moderate to heavy occupancy or fixture use.

604.1.3.3 3/4-inch service connections. A 3/4-inch service connection is limited to 25 WSFUs as determined by table E103.3(2).

604.1.3.4 1-inch service connections. A 1-inch service connection is limited to 50 WSFUs as determined by table E103.3(2).

604.1.3.5 Acceptance letter. The homeowner shall sign and submit an acceptance letter when existing 3/4-inch and 1-inch service connections will serve additional fixtures, or new or replaced houses.

604.1.4 Engineered Designs. Plans Review validation and approval required.

302.6.6 IPC Section 604, DESIGN OF BUILDING DISTRIBUTION SYSTEM, is hereby AMENDED by ADDING Section 604.7.1 and 604.8.3, to provide provisions that will identify the property owner or their design and construction team to be the final responsible party when determining the need for a booster pump or a pressure reducing valve, all to read as follows:

(IPC as amended)

604.7.1 Insufficient pressure. The property owner or their design and construction team shall be the final responsible party for determining if a booster pump system is needed to supplement a building water distribution system's inadequate pressure. Booster pumps shall not be allowed to overcome undersized piping.

604.8.3 Excessive pressure. The property owner or their design and construction team shall be the final responsible party for determining if a pressure reducing valve or pressure regulator valve is needed to restrict the building water distribution system's pressure to 80 psi (551 kPa) or less per IPC Section 804.8.

302.6.7 IPC Section 605.2, Lead content of water supply pipe and fittings, is hereby AMENDED by MODIFYING Section 605.2, to align with and incorporate federal regulations mandating low lead plumbing fixtures, fittings and other components all to read as follows:

(IPC as amended)

605.2[.] Lead content of water supply pipe and fittings. Pipe and pipe fittings, including valves and faucets, utilized in the water supply system shall have a maximum of 8-percent lead content. Pipe, fittings, faucets, valves, etc. located within the flow path from the water service connection to a faucet or outlet intended for human consumption or ingestion shall not exceed a weighted

average lead content of 0.25% with respect to the wetted surface areas of the pipe, fittings, faucets, valves, etc. pipe, fittings, faucets, valves, etc. in the flow path to human consumption or ingestion shall meet NSF Standards 61-Annex G and 372.

302.6.8 IPC Section 606.2, Location of shutoff valves, is hereby AMENDED by MODIFYING Item number 2, to include various nomenclatures for hose bibb type connections and to specifically include frost-free type bibbs as requiring a shutoff valve for servicing, all to read as follows:

(IPC as amended)

606.2 Location of shutoff valves.

2. On the water supply pipe to each sillcock, hose bibb, wall or yard hydrant, irrigation supply, decorative fountain or general water outlet including frost-free or frost-proof type fixtures. See amended Section 302.3.3 (added IPC Section 305.4.2) for winterization requirements.

302.6.9 IPC SECTION 607.2.1, COMMERCIAL ENERGY PROVISIONS, IS HEREBY DELETED IN ITS ENTIRETY.

[302.6.9]302.6.10 IPC Section [607.2.1]607.2.2, Circulation systems and heat trace systems for maintaining heated water temperature in distribution systems, is hereby DELETED and REPLACED, to remove restrictions on controls that would require systems to turn off circulation pumps and heat trace systems when there is no demand or when desired temperature is reached, is all to read as follows:

(IPC as amended)

[607.2.1]607.2.2 Circulation systems and heat trace systems for maintaining heated water temperature in distribution systems. Heated-water circulation systems shall be in accordance with Section 607.2.1.1. Heat trace temperature maintenance systems shall be in accordance with Section 607.2.1.2. Automatic controls, temperature sensors and pumps shall be in a location with access. Manual controls shall be in a location with ready access.

[607.2.1.1]607.2.2.1 Circulation systems. Heated-water circulation systems shall be provided with a circulation pump. The system return pipe shall be a dedicated return pipe or a cold water supply pipe. Gravity and thermo-syphon circulation systems shall be prohibited. Controls for circulating hot water system pumps may automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is not a demand for hot water. For systems that use cold water pipe for recirculation, the controls shall limit the temperature of the water entering the cold water piping to not greater than 104°f (40°c). Circulation pumps may run continuously.

[607.2.1.1.1]607.2.2.1.1 Demand recirculation controls. Demand recirculation water systems shall have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance, sensing the presence of a user of a fixture, or sensing the flow of hot or tempered water to a fixture fitting or appliance.

[607.2.1.2]607.2.2.2 Heat trace systems. Electric heat trace systems shall comply with IEEE 515.1. Controls for such systems shall be able to automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace may be arranged to be turned off automatically when there is not a demand for hot water.

[302.6.10]302.6.11 IPC Section 609.2.1 Tracer, is hereby deleted in its entirety. See Section 302.6.3 for water service tracer wire requirements.

[302.6.11]302.6.12 IPC Section 608, Protection of potable water supply, is hereby deleted, see Chapter 5, "Cross-Connection Control Backflow Prevention", of this Code for requirements regarding protection of potable water supply.

[302.6.12]302.6.13 IPC Section 614 Alternative pipe restoration methods, is hereby added, all to read as follows:

(IPC as amended)

614 Alternative pipe restoration methods.

614.1 General. This section shall govern the alternative pipe restoration methods for existing domestic water piping, including cured-in-place-pipe (CIPP) and pipe relining systems

614.2 Permitting. A permit and inspections are required.

614.3 Installation. Alternative pipe restoration methods shall be installed in accordance with the manufacturer's instructions restorations. Restored water piping systems shall be labeled or permanently

tagged at the main service valve, riser valves, and on exposed piping at 10-foot (3,048-mm) minimum intervals. The label shall indicate that the piping has been so restored and shall list precautions regarding future maintenance, including the requirement for flameless pipe joining methods when applicable.

614.4 Materials. Products used in the final stage restoration process shall comply with NSF 61 standards.

614.5 Existing backflow preventers. All existing backflow preventers shall be regularly tested or replaced as required.

614.6 Unprotected hazards. All unprotected hazards shall be abated by an appropriate level of backflow prevention, see Chapter 5 and Table 5.2 of WSSC Plumbing and Fuel Gas Code.

614.7 Containment backflow preventer. The building's domestic cold water main supply shall be outfitted with a containment backflow preventer, commensurate with the degree of hazard (see Section 502.3.3 and Table 5.2 of WSSC Plumbing and Fuel Gas Code), before the onset of any pipeline restoration activities located downstream of the initial water service main shutoff valve.

614.8 Epoxy lining operating temperatures. Buildings restored with epoxy relining products listed for operating temperatures of less than 180°F (82°C) shall be outfitted with the following items:

614.8.1 Master mixing valve. An ASSE 1017 certified master thermostatic mixing valve shall be provided to safeguard the temperature of the water delivered from the potable domestic hot water distribution system. See this Code Section 302.5.1. The potability of the water shall be maintained throughout the system.

614.8.2 Signage. The following signage shall be posted at the main water shutoff valve and at the water heater: "This building contains water piping retrofitted with an epoxy relining system which shall not be exposed to water temperatures exceeding 140 degrees F."

614.9 Pressure Testing. The replacement piping system as well as the connections to the replacement piping shall be tested in accordance with Section 312.

302.7 Amendment of IPC CHAPTER 7, "SANITARY DRAINAGE"

302.7.1 IPC 703, Building sewer, is hereby AMENDED by ADDING Section 703.5.1, to allow certain private sewers to pass under or through another building on the same site and of the same ownership, all to read as follows:

(IPC as amended)

703.5.1 Serviceability and segregation. Where certain site conditions, elevations or obstructions exist, Building Sewers and site utility Sewers may pass under or through an adjacent or other building on the same site when both are under the same ownership. In order to establish serviceability and segregation the following parameters shall apply:

703.5.1.1 Two manholes required. Manholes, meeting Commission standard details, shall be provided on the exterior, before the subject sewer entering the building, and on the exterior, after the subject sewer exits the building. Additional manholes or cleanouts shall be required within the building where spacing requirements of IPC Section 708.1.1 dictate.

703.5.1.2 Material. Piping material for the entire referenced run of piping shall comply with IPC Table 702.2.

703.5.1.3 Segregation. The referenced sewer shall run through or under the subject building without any interconnections with the subject building's drain or sewer until reaching at least the most downstream manhole referenced in amended IPC Section 703.5.1.1.

302.7.2 IPC 703, BUILDING SEWER, is hereby AMENDED by ADDING Section 703.7, to provide provisions that will enable building sewers constructed under this Code to be locatable, all to read as follows:

(IPC as amended)

703.7 Tracer wire. Building sewer piping that discharges to public or private systems shall be locatable. At a minimum, an insulated, solid, copper tracer wire, 10 awg minimum, and suitable for direct burial or an equivalent product shall be utilized. The wire shall be installed in the same trench as the sewer within 12 inches (305 mm) of the pipe from the terminal end of the building sewer cleanout (at the building wall) to the point where the gravity building sewer connects to a public system (typically at the property line or a mainline right-of-way), or to a private system to the point of transition (typically the inlet of a septic tank). For a building pressure sewer, the tracer

wire shall run from within 30 inches (762 mm) of the building wall to the access opening of the property-line valve box.

703.7.1 Wire exposure. At the terminus of the building sewer cleanout or the property-line valve box, the wire shall be adequately exposed for future use by location detection equipment operators as follows:

703.1.1 Cleanout above grade. Where the cleanout terminates 6 inches (152 mm) above grade, the end of the wire shall be held in place by the cleanout cap or cover assembly.

703.1.2 Cleanout paved area. Where the cleanout terminates in paved areas, the end of the wire shall remain exposed within the void between the pipe and the cleanout access assembly.

703.1.3 Wire termination. For pressure sewer applications, the tracer wire shall wrap twice around the property-line valve box and the end of the wire left tucked inside the tightly fastened cover.

302.7.3 IPC 708.1, Cleanouts required, is hereby AMENDED by ADDING to the Exception under Section 708.1.1, to codify cleanout equivalents, all to read as follows:

(IPC as amended)

708.1.1 HORIZONTAL DRAINS AND BUILDING DRAINS. HORIZONTAL DRAINAGE PIPES IN BUILDINGS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30 480 MM). BUILDING DRAINS SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30,480 MM), EXCEPT WHERE MANHOLES ARE USED INSTEAD OF CLEANOUTS, THE MANHOLES SHALL BE LOCATED AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, THE END OF THE HORIZONTAL DRAIN OR THE END OF THE BUILDING DRAIN.

Exceptions:

1. Horizontal fixture drain piping serving a non-removable trap shall not be required to have a cleanout for the section of piping between the trap and the vent connection for such trap provided the trap is at least **[**2″**]1-1/2”** diameter, not serving a kitchen sink, and provided such horizontal drain piping does not exceed the distances specified in Table 909.1.
2. Cleanouts shall not be required for fixture drains or fixture branches serving up to 7 fixtures. This exception is limited to 40 feet (12,192 mm) of developed length of piping as measured from a readily accessible and removable P-trap or a water closet flange. This exception does not cover fixture branches serving one or more urinals.

302.7.4 IPC 708.1, Cleanouts required, is hereby AMENDED by MODIFYING the requirement for manholes to include pipelines of 6 inches (101 mm) diameter, all to read as follows:

(IPC as amended)

IPC 708.1.2 Building sewers. [Building sewers shall be provided with cleanouts located not more than 100 feet (30,480 mm) apart measured from the upstream entrance of the cleanout. For building sewers 6 inches (153 mm) and larger, manholes shall be provided and not located more than 100 feet (30,480 mm) from the junction of the building drain and building sewer, at each change of direction and at intervals or not more than 400 feet (122 m) apart. Manholes and manhole covers shall be of approved type.**]BUILDING SEWERS SMALLER THAN 6 INCHES (153 MM) SHALL HAVE CLEANOUTS LOCATED AT INTERVALS OF NOT MORE THAN 100 FEET (30,480 MM). BUILDING SEWERS 6 INCHES (203 MM) AND LARGER SHALL HAVE A MANHOLE LOCATED NOT MORE THAN 100 FEET (30,480 MM) FROM THE JUNCTION OF THE BUILDING DRAIN AND BUILDING SEWER AND AT INTERVALS OF NOT MORE THAN 400 FEET (122 M). THE INTERVAL LENGTH SHALL BE MEASURED FROM THE CLEANOUT OR MANHOLE OPENING, ALONG THE DEVELOPED LENGTH OF THE PIPING TO THE NEXT DRAINAGE FITTING PROVIDING ACCESS FOR CLEANING, A MANHOLE OR THE END OF THE BUILDING SEWER.**

302.7.5 IPC 708.1, Cleanouts required, is hereby AMENDED by MODIFYING Section 708.1.3 to require all building sewer cleanouts be installed outside, all to read as follows:

(IPC as amended)

708.1.3 Building drain and building sewer junction. The junction of the building drain and the building sewer shall be served by a cleanout that is located at the junction. The cleanout piping shall extend from the wye fitting connection to grade, terminating outside of the structure. In un-paved areas, the cleanout shall extend 6 inches (152 mm) above grade; in paved areas, access shall comply with Commission Standard Detail S5.1 or S5.2.

EXCEPTION: UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS THAT ARE REPLACED BY PIPE-BURSTING METHODS ARE NOT REQUIRED TO HAVE A CLEANOUT AT JUNCTION OF BUILDING DRAIN AND SEWER IF THE FOLLOWING CONDITIONS ARE MET:

1. **FOR THE PIPING RESTORED BY PIPE BURSTING, THE MAXIMUM DISTANCE FROM THE INSIDE CLEANOUT TO NEXT DOWNSTREAM CLEANOUT IS 100 FEET.**
2. **THE CLEANOUT MEETS ALL OTHER ACCESSIBILTY REQUIREMENTS OF THE CODE.**

[302.7.6 IPC Section 708.1, Cleanouts required, is hereby AMENDED by ADDING as new Sections 708.1.11 and 708.1.11.1, requirements for a property line cleanout, all to read as follows:

(IPC as amended)

708.1.11 Property line. Commission sewer service connections with a vertical riser, shall be connected to by the plumber in accordance with Commission Standard Details S-5.0. The cleanout cover assembly shall be installed by the plumber in accordance with Commission Standard Detail S-5.1 or S-5.2.

708.1.11.1 Replacement sewers. When an existing sewer service connection is being re-connected to, or, when an existing building sewer is being replaced, a property line cleanout shall be established by the plumber. The base connection shall be a combination wye and one-eighth bend lying on its back, connected immediately to the Commission service connection located at the property line or edge of right-of-way. The cleanout cover assembly shall conform with Commission Standard Detail S-5.1 or S-5.2. See this Code Section 112.1.6.**]**

[302.7.7]302.7.6 IPC Section [708.1.10]708.1.11, CLEANOUT Access, is hereby AMENDED by MODIFYING **TO CLARIFY THAT WSSC STANDARD DETAILS ARE APPROVED FOR USE IN PAVED AREAS AND** to include a height restriction to facilitate safe and practical servicing of drain lines, all to read as follows:

(IPC as amended)

708.1.11.1 CLEANOUT PLUG TRIM COVERS. TRIM COVERS AND ACCESS DOORS FOR CLEANOUT PLUGS SHALL BE DESIGNED FOR SUCH PURPOSES AND SHALL BE APPROVED. TRIM COVER FASTENERS THAT THREAD INTO CLEANOUT PLUGS SHALL BE CORROSION RESISTANT. CLEANOUT PLUGS SHALL NOT BE COVERED WITH MORTAR, PLASTER OR ANY OTHER PERMANENT MATERIAL.

708.1.11.1.1 APPROVED CLEANOUT PLUG TRIM COVERS FOR PAVED AREAS. CLEANOUT COVER ASSEMBLIES THAT CONFORM TO COMMISSION STANDARD DETAIL S-5.1 OR S-5.2 ARE APPROVED FOR PAVED AREAS, INCLUDING CLEANOUTS OF THE BUILDING SEWER BETWEEN THE JUNCTION WITH THE BUILDING DRAIN AND THE CLEANOUT AT THE PROPERTY LINE.

[708.1.10.3]708.1.11.3 Usable access. Cleanout openings shall not exceed 36 inches (762 mm) above finished floor level. Where provided, cleanouts serving horizontal drainage systems above ceiling level shall extend to the floor above and terminate as an accessible floor cleanout or extend to outdoors.

302.7.7 IPC SECTION 708.1, CLEANOUTS REQUIRED, IS HEREBY AMENDED BY ADDING AS NEW SECTIONS 708.1.13 AND 708.1.13.1, REQUIREMENTS FOR A PROPERTY LINE CLEANOUT, ALL TO READ AS FOLLOWS:

(IPC AS AMENDED)

708.1.13 PROPERTY LINE. COMMISSION SEWER SERVICE CONNECTIONS WITH A VERTICAL RISER, SHALL BE CONNECTED TO BY THE PLUMBER IN ACCORDANCE WITH COMMISSION STANDARD DETAILS S-5.0. THE CLEANOUT COVER ASSEMBLY SHALL BE INSTALLED BY THE PLUMBER IN ACCORDANCE WITH COMMISSION STANDARD DETAIL S-5.1 OR S-5.2.

708.1.13.1 REPLACEMENT SEWERS. WHEN AN EXISTING SEWER SERVICE CONNECTION IS BEING RE-CONNECTED TO, OR, WHEN AN EXISTING BUILDING SEWER IS BEING REPLACED, A

PROPERTY LINE CLEANOUT SHALL BE ESTABLISHED BY THE PLUMBER. THE BASE CONNECTION SHALL BE A COMBINATION WYE AND ONE-EIGHTH BEND LYING ON ITS BACK, CONNECTED IMMEDIATELY TO THE COMMISSION SERVICE CONNECTION LOCATED AT THE PROPERTY LINE OR EDGE OF RIGHT-OF-WAY. THE CLEANOUT COVER ASSEMBLY SHALL CONFORM TO COMMISSION STANDARD DETAIL S-5.1 OR S-5.2. SEE THIS CODE SECTION 112.1.6.

302.7.8 IPC Section 714, BACKWATER VALVES, is hereby AMENDED by MODIFYING Section 714.1 to recognize private manholes and by ADDING Section 715.6, to specify marking and labeling requirements for backwater valve access, all to read as follows:

(IPC as amended)

714.1 Sewage backflow. Where plumbing fixtures are installed on a floor with a finished floor elevation below the elevation of the manhole cover of the next upstream manhole in a public or private sewer, such fixtures shall be protected by a backwater valve installed in the building drain, or horizontal branch serving such fixtures. Plumbing fixtures installed on a floor with a finished elevation **AT OR** above the elevation of the manhole cover of the next upstream manhole in a public or private sewer shall not discharge through a backwater valve. **IN NEW BUILDINGS WITH NEW MANHOLES AS PART OF A SITE UTILITY, THE REQUIREMENT FOR A BACKWATER VALVE SHALL BE DETERMINED BY THE ELEVATION OF THE MANHOLE ON THE SITE UTILITY PLANS.**

EXCEPTION: IN EXISTING BUILDINGS, FIXTURES ABOVE THE ELEVATION OF THE MANHOLE COVER OF THE NEXT UPSTREAM MANHOLE IN THE PUBLIC SEWER SHALL NOT BE PROHIBITED FROM DISCHARGING THROUGH A BACKWATER VALVE.

715.6 Marking and labeling. The access cover serving a backwater valve shall be permanently labeled with the following message: "Backwater valve located below this access cover, do not cover with permanent floor finishing material such as carpet or tile." In addition, a tag shall be affixed at the main water supply valve indicating the use and location of the backwater valve(s).

302.7.9 IPC Section 716 REPLACEMENT OF UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS BY PIPE-BURSTING METHODS, is hereby deleted and replaced, all to read as follows:

(IPC as amended)

SECTION 716 REPLACEMENT OF UNDERGROUND BUILDING SEWERS AND BUILDING DRAINS BY PIPE-BURSTING METHODS

716.1 General. This section shall govern the replacement of existing building sewer and building drain piping by pipe-bursting methods.

716.2 Applicability. The replacement of building sewer and building drain piping by pipe-bursting methods shall be limited to gravity drainage piping of sizes 6 inches (152 mm) and smaller. The replacement piping shall be of the same nominal size as the existing piping.

716.3 Pre-installation inspection. The existing piping sections to be replaced shall be pre-qualified by flushing and inspected internally by a recorded video camera survey. Where the existing pipeline slope is unsatisfactory, pipe-bursting, relining, or other forms of trenchless reconstruction cannot be utilized. Open trench replacement with adequate bedding of over-excavated areas is required. The survey shall include notations of the position of cleanouts and the depth of connections to the existing piping.

716.4 Permitting. A permit and inspections are required.

716.5 Prohibited Applications. Where review of the pre-installation recorded video camera survey reveals that piping systems are not installed correctly or defects exist, relining shall not be permitted. The defective portions of piping shall be exposed and repaired with pipe and fittings in accordance with this Code. Defects shall include, backgrade or insufficient slope, complete pipe wall deterioration or complete separations such as from tree root invasion or improper support. Where the existing pipeline slope is unsatisfactory, pipe-bursting, relining, or other forms of trenchless reconstruction cannot be utilized. Open trench replacement with adequate bedding of over-excavated areas is required.

716.6 Pipe bursting materials.

716.6.1 Pipe. The replacement pipe shall be made of high-density polyethylene (HDPE) and shall have a standard dimension ratio (SDR) of 17. The pipe shall be in compliance with ASTM F714.

716.6.2 Pipe fittings. Pipe fittings to be connected to the replacement pipe shall be made of high-density polyethylene (HDPE) and shall be in compliance with ASTM D2683.

716.7 Installation.

716.7.1 Cleanouts. Where the existing building sewer or building drain did not have cleanouts meeting the requirements of this Code, cleanout fittings shall be installed as required by this Code.

716.8 Post-installation inspection. The completed replacement piping section shall be inspected internally by a recorded video camera survey. Restored sewer piping shall be flushed and then flow a minimum one gpm of clean water while video recording as a final inspection requirement. Copies of the video recordings for both required video inspections shall be provided to the Code Official. The video survey shall be reviewed and approved by the Code Official before pressure testing of the replacement piping system.

716.9 Pressure testing. The replacement piping system as well as the connections to the replacement piping shall be tested in accordance with Section 312.

302.7.10 IPC Section 717 RELINING BUILDING SEWERS AND BUILDING DRAINS, is hereby deleted and replaced, all to read as follows:

(IPC as amended)

717 RELINING BUILDING SEWERS AND BUILDING DRAINS

717.1 General. This section shall govern the relining of existing building sewers and building drainage piping.

717.2 Applicability. The relining of existing building sewers and building drainage piping shall be limited to gravity drainage piping 4 inches (102 mm) in diameter and larger. The relined piping shall be of the same nominal size as the existing piping.

717.3 Preinstallation requirements. [Prior to**]BEFORE** commencement of the relining installation, the existing piping sections to be relined shall be descaled and cleaned.

717.3.1 Preinstallation recorded video camera survey. The existing piping sections to be replaced shall be pre-qualified by flushing and inspected internally by a recorded video camera survey. Where the existing pipeline slope is unsatisfactory, pipe-bursting, relining, or other forms of trenchless reconstruction cannot be utilized. Open trench replacement with adequate bedding of over-excavated areas is required. The survey shall include notations of the position of cleanouts and the depth of connections to the existing piping.

717.4 Permitting. A permit and inspections are required.

717.5 Prohibited applications. Where review of the pre-installation recorded video camera survey reveals that piping systems are not installed correctly or defects exist, relining shall not be permitted. The defective portions of piping shall be exposed and repaired with pipe and fittings in accordance with this Code. Defects shall include, backgrade or insufficient slope, complete pipe wall deterioration or complete separations such as from tree root invasion or improper support. Where the existing pipeline slope is unsatisfactory, pipe-bursting, relining, or other forms of trenchless reconstruction cannot be utilized. Open trench replacement with adequate bedding of over-excavated areas is required.

717.6 Relining materials. The relining materials shall be manufactured in compliance with applicable standards and certified as required in Section 303. Fold-and-form pipe reline materials shall be manufactured in compliance with ASTM F1504 or ASTM F1871.

717.7 Installation. The installation of relining materials shall be performed in accordance with the manufacturer's installation instructions, applicable referenced standards and this Code.

717.7.1 Material data report. The installer shall record the data as required by the relining material manufacturer and applicable standards. The recorded data shall include but is not limited to the location of the project, relining material type, amount of product installed and conditions of the installation.

717.8 Post-installation inspection. The completed replacement piping section shall be inspected internally by a recorded video camera survey. Restored sewer piping shall be flushed and then flow a minimum one gpm of clean water while video recording as a final inspection requirement. Copies of the video recordings for both required video inspections shall be provided to the Code Official. The video survey shall be reviewed and approved by the Code Official before pressure testing of the replacement piping system.

717.9 Pressure testing. The replacement piping system as well as the connections to the replacement piping shall be tested in accordance with Section 312.

302.8 Amendment of IPC CHAPTER 8, "INDIRECT/SPECIAL WASTE"

302.8.1 IPC 801, GENERAL, is hereby AMENDED by ADDING as new Section 801.3, air gap (drainage) dimensions:

(IPC as amended)

IPC 801.3 Air gap(drainage) dimensions. Air gap shall be at least double the diameter of the drainage pipe measured vertically above the top of the rim of the vessel. In no case shall it be less than 1 inch (25 mm). Special conditions may require more stringent requirements.

302.8.1 IPC 802.1.4, Swimming Pools, is hereby AMENDED by ADDING a maximum pipe size for sanitary discharge and recognition that this requirement may further require a surge tank to augment normal pool discharge flows, all to read as follows:

(IPC as amended)

802.1.4.1 Maximum Size Discharge. Such waste may discharge to the sanitary sewer but shall be limited to a maximum of 2 inches (50 mm) diameter pipe for gravity flow or 50 gpm of pump flow; this may require the installation of a surge tank.

802.1.4.2 Prohibited Discharge. No outside deck drains or surface water drains shall enter the sanitary sewer.

302.8.2 IPC 802.1, Indirect Waste, is hereby AMENDED by MODIFYING Sections 802.1.7 and 802.1.8, to remove air break as an acceptable means of indirect connection, all to read as follows:

(IPC as amended)

802.1.7 Commercial dishwashing machines. The discharge from a commercial dishwashing machine shall be through an air gap into a waste receptor in accordance with Section 802.2

802.1.8 Food utensils, dishes, pots and pans sinks. Sinks, in other than dwelling units, used for the washing, rinsing or sanitizing of utensils, dishes, pots, pans or service ware used in the preparation, serving or eating of food shall discharge indirectly through an air gap to the drainage system.

302.8.3 IPC 802.3, INSTALLATION, IS HEREBY AMENDED BY ADDING LANGUAGE FOR TRAPS NOT TO BE VENTED, ALL TO READ AS FOLLOWS:

(IPC AS AMENDED)

802.3 INSTALLATION. INDIRECT WASTE PIPING SHALL DISCHARGE THROUGH AN AIR GAP OR AIR BREAK INTO A WASTE RECEPTOR. WASTE RECEPTORS SHALL BE TRAPPED AND VENTED AND SHALL CONNECT TO THE BUILDING DRAINAGE SYSTEM. INDIRECT WASTE PIPING THAT EXCEEDS 30 INCHES (762 MM) IN DEVELOPED LENGTH MEASURED HORIZONTALLY, OR 54 INCHES (1372 MM) IN TOTAL DEVELOPED LENGTH, SHALL BE TRAPPED. TRAPS FOR INDIRECT WASTE PIPING MAY NOT BE VENTED.

EXCEPTION: WHERE A WASTE RECEPTOR RECEIVES ONLY CLEARWATER WASTE AND DOES NOT DIRECTLY CONNECT TO A SANITARY DRAINAGE SYSTEM, THE RECEPTOR MAY NOT REQUIRE A TRAP.

[302.8.3]302.8.4 IPC Section [802.3]802.4, Waste receptors, is hereby AMENDED by MODIFYING language to prohibit indirect waste connections in areas that are not ready visible, all to read as follows:

(IPC as amended)

802.3 Waste receptors. Waste receptors shall be of an approved type. A removable strainer or basket shall cover the waste outlet of waste receptors. Waste receptors shall be installed in ventilated spaces and visible ready access areas. Waste receptors shall not be installed in bathrooms, toilet rooms, plenums, crawl spaces, attics interstitial spaces above ceilings and below

floors or in any inaccessible or unventilated space such as a closet or storeroom. Ready access shall be provided to waste receptors.

302.9 Amendment of IPC CHAPTER 9, "VENTS"

302.9.1 IPC Section 901.3, Chemical waste vent systems, is hereby AMENDED by MODIFYING Section 901.3, to require chemical waste and vent systems to be engineered design systems, all to read as follows:

(IPC as amended)
901.3 Chemical waste vent systems. The vent system for a chemical waste system shall be an engineered design system, independent of the sanitary vent system, and terminate separately through the roof to the outdoors.

302.9.2 IPC Section 903.1.1, Roof extension unprotected, is hereby AMENDED by COMPLETING minimum vent extension dimension above a roof, all to read as follows:

(IPC as amended)
Section 903.1.1, Roof extension unprotected. Open vent pipes which extend through a roof shall be terminated at least 12 inches (304 mm) above the roof or 6 inches (152 mm) above the anticipated snow accumulation, except that where a roof is to be used for any purpose other than weather protection, the vent extensions shall be run at least 7 feet (2,133 mm) above the roof.

302.9.3 IPC 905.4 Vertical rise of vent, is hereby AMENDED to allow for and provide installation provisions for vents routed horizontally below flood rim of fixtures served, all to read as follows:

(IPC as amended)
905.4 Vertical rise of vent. Horizontal dry vents below flood level rim. Dry vents may be routed horizontally below the flood level rim of the fixtures being served provided all of the following conditions are met:

- **a.** The connection to the drain is in accordance with Section 905.3;
- **b.** An accessible clean-out shall be provided, and labeled, to service the horizontal run of vent;
- **c.** The horizontal run of the vent shall slope at 2% minimum toward the drain;
- **d.** Each vent shall be routed to a minimum of 6 inches (152 mm) above the highest flood rim before interconnecting with other vents or terminating outdoors;
- **e.** Where such vents terminate independently to the outdoors or where such vents are the bottom or beginning of a vent header or stack that terminates to the outdoors, the vent terminal shall be protected with a vandal proof termination fitting or a return bend.

302.9.4 IPC 909.1, Distance of trap from vent, is hereby AMENDED by MODIFYING Section 909.1, to clarify that Table 909.1 does not represent maximum slopes as it pertains to the parameters contained in the slope column, all to read as follows:

(IPC as amended)
909.1 Distance of trap from vent. Each fixture trap shall have a protecting vent located so that the slope and the developed length in the fixture drain from the trap weir to the vent fitting are within the requirements set forth in Table 909.1. The slope in a fixture drain from the trap weir to the vent fitting (trap arm) may exceed the values in Table 909.1, but shall not exceed 1/2 inches (38 mm) per foot (304 mm) (4%) and the provisions stated in Section 909.2 shall also be adhered to.

EXCEPTION: THE DEVELOPED LENGTH OF THE FIXTURE DRAIN FROM THE TRAP WEIR TO THE VENT FITTING FOR SELF-SIPHONING FIXTURES, SUCH AS WATER CLOSETS, MAY NOT BE LIMITED.

302.9.5 IPC 909.2, Venting of fixture drains, is hereby AMENDED by MODIFYING Section 909.2, to allow certain fittings to be used in venting applications, all to read as follows:

(IPC as amended)
IPC 909.2 Venting of fixture drains. The total fall in a fixture drain due to pipe slope shall not exceed the diameter of the fixture drain, nor shall the branch opening of the vent connection fitting serving a fixture drain, except for water closets, be below the weir of the trap.

IPC 909.2.1 Long Pattern Fittings. Long pattern fittings such as a tee-wye, combination wye and eighth bend, double tee-wye, or double combination wye and eighth bend shall be an acceptable vent connection fitting transitioning a horizontal trap arm to a vertical fixture drain or fixture branch drain.

IPC 909.2.2 Rolled fittings. When connecting trap arms or wet vented fixture branches to a horizontal drain and vent system such as a wet vent, circuit vent or combination waste and vent, long pattern fittings, as referenced in 909.2.1, may have the branch "rolled-up" such that the branch is between 22-1/2 degrees (0.39 rad) - 45 degrees (0.78 rad) above the horizontal plane. The corresponding 22-1/2 or 45 degree fitting used, to re-establish the horizontal plane for the trap arm, shall be considered the branch opening in reference to trap arm slope and connection provisions of this section. Excluding fittings and socketed fitting make-ups, the maximum piping used to create the rolled connection shall not exceed two pipe diameters in length.

302.9.6 IPC Section 918, AIR ADMITTANCE VALVES, is hereby AMENDED by ADDING specific subsections to Section 918, to codify key components of manufacturer's instructions and provide additional parameters to ensure safe practices, all to read as follows:

(IPC as amended)

918.2.1 Timing. In addition to 918.2, air admittance valves shall be installed as close to the timing of fixture setting as practical to avoid construction debris, dust, painting, or harmful practices that may affect the proper operation of the valve.

918.2.2 Painting. Air admittance valve shall not be painted or otherwise altered in any way.

918.4.1 Below grade. Air admittance valves are prohibited in pits, vaults, or areas subject to being submerged.

918.5.1 Detection. Air admittance valves shall be located in, or have air exchange with, visible ready access areas. Attics or areas where valve failure would otherwise go undetected are prohibited.

918.5.2 Documentation. A drawing, schematic, or schedule indicating each valves location, model and size shall be attached at the main water supply valve. In lieu, a tag indicating both the use of air admittance valves and the location of the required documentation shall be affixed at the main water supply valve.

918.7.1 Minimum size vent. The minimum size vent shall not be less than one-half the cross-sectional area of the largest portion of the building drain.

302.9.6 IPC Section 918.8, Prohibited installations, is hereby amended by modified to prohibited installations for air admittance valves, all to read as follows:

(IPC as amended)

918.8 Prohibited installations. Air admittance valves shall not be installed in nonneutralized special waste systems as described in Chapter 8 of IPC. Air admittance valves shall not be located in spaces utilized as supply or return air plenums. Air admittance valves shall not be used to vent sumps or tanks except where the vent system for the sump or tank has been designed by an engineer. Air admittance valves shall not be installed on outdoor vent terminals for the sole purpose of reducing clearances to gravity air intakes or mechanical air intakes.

918.8.1 Additional prohibited installations. Air admittance valves shall not be used in FOG waste systems, **NON-RESIDENTIAL** suds-laden waste systems, flammable liquid waste systems, pathogenic waste systems, hospitals, healthcare facilities, adult or child care facilities, or similar at-risk occupancies.

302.10 Amendment of IPC CHAPTER 10, "TRAPS, INTERCEPTORS, AND SEPARATORS"

302.10.1 IPC Section 1002.4.1.5 Fixture drain connection for trap priming, is hereby deleted in its entirety.

302.10.2 IPC Section 1003, TRAPS, INTERCEPTORS, AND SEPARATORS, is hereby DELETED in its entirety and REPLACED with new Section 1003, all to read as follows:

SECTION 1003 INTERCEPTORS

1003.1 General.

1003.1.1 Where required. Interceptors shall be provided to prevent the discharge of substances harmful or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or processes, see Section 804.

1003.1.2 Approved construction documents. The location, size and piping details shall require plan approval [prior to]BEFORE installation, THIS INCLUDES ANY NEW, ADDED, OR RELOCATED GREASE INTERCEPTOR.

1003.1.3 Manufacturer's installation requirements. Each interceptor shall be installed in accordance with the manufacturer's instructions and the requirements of this section.

1003.1.4 Access. Access shall be provided to each interceptor for inspection, service, and maintenance.

1003.1.5 Maintenance. Interceptors shall be cleaned on a regular basis and according to manufacturer's recommendations and this section to allow proper operation.

1003.1.6 Venting of interceptors. Interceptors shall be designed so as not to become air bound where tight covers are utilized. Each interceptor shall be vented where subject to a loss of trap seal. Interceptors shall be vented per manufacturer's instructions.

1003.1.7 Temperature rating. Where the wastewater temperature will be greater than 140°F (60°C), the interceptor material shall be rated for the highest temperature of the wastewater.

1003.2 Grease abatement systems.

1003.2.1 Applicability. The regulations in this section shall apply to food service establishments (FSE), as defined in Chapter 2 of this Code.

1003.2.2 Where required. Grease abatement systems shall be provided to prevent the discharge of FOG and other substances harmful or hazardous to the building drainage system, the public sewer, the private sewage disposal system or the sewage treatment plant or processes, see Section 804.

1003.2.1.2 Fixtures and equipment. A grease abatement system shall be required for the drainage from fixtures and equipment with potential grease-laden wastewater. Fixtures and equipment shall include, but not be limited to: 1, 2, 3, and 4 compartment sinks; pot sinks; pre-rinse sinks; soup kettles or similar devices; fresh meat cutting and prepping; wok stations; mop and service sinks; floor drains; trough drains; floor sinks; open site drains; dump sinks receiving waste products; automatic hood wash units; and dishwashers.

1003.2.1.2.1 Compartment sinks. Single and multi-compartment sinks which are subject to a variety of preparation or clean-up activities shall be abated accordingly. Only such sinks located in areas exclusively used for produce preparation may route to sanitary unabated as determined by the Code Official, also see Section 1003.2.4.2.

1003.2.1.2.2 Elevated flood rim level. Where any kitchen drainage located within critical areas has been permitted to discharge to the sanitary drainage system, without being routed to a grease abatement system, receiving fixtures such as floor sinks, open site drains, receptors and similar drains, shall be installed with the receiving fixture's flood rim level located a minimum of 1 inch (25 mm) above finished floor. Receiving fixtures shall be installed in a manner that maintains cleanability between flood rim level and finished floor and precludes creating an unsanitary condition. Where approved, floor drains, trough drains and similar, within non-critical areas, may route directly to the sanitary drainage system as indicated on the approved plans.

1003.2.1.2.3 Fish scale interceptor. [Seafood prep sinks]DISCHARGE OF FISH SCALES TO THE COMMISSION'S SANITARY SEWER IS PROHIBITED. SINKS AND EQUIPMENT USED FOR THE PREPARATION OF SEAFOOD AND CLEANING OF EQUIPMENT USED FOR PREPARTION OF SEAFOOD shall discharge through a local scale interceptor [prior to]BEFORE entering any portion of the drainage system or grease abatement system. PREPARTION OF SEAFOOD INCLUDES SCALING, CUTTING, AND COOKING.

1003.2.1 LABELING AND MARKING. GREASE WASTE PIPING SHALL BE LABELED AS FOLLOWS:

1003.2.1.1 MARKING BURIED GREASE WASTE PIPING. BURIED GREASE WASTE PIPING SHALL BE PAINTED WITH A CONTINOUS STRIPE OF BROWN PAINT. THE PAINT CAN BE APPLIED BY BRUSH, SPRAYED ON, OR AS APPROVED. THE STRIP SHALL BE A MINIMUM OF 1 INCH (25 MM) WIDE AND LOCATED ON THE TOP CENTER OF PIPE. PAINT

TYPE SHALL BE PERMANENT. WATER-BASED PAINT OR PAINT TYPICALLY USED FOR TEMPORARY UTILITY MARKING IS PROHIBITED.

1003.2.1.2 MARKING FOR OTHER THAN BURIED GREASE WASTE PIPING. WITH THE EXCEPTION OF BURIED GREASE WASTE PIPING, GREASE WASTE PIPING THAT IS CONCEALED OR IN A ROOM OTHER THAN GREASE INTERCEPTOR SHALL BE LABELED AS FOLLOWS:

1003.2.1.2.1 MARKING LOCATIONS. MARKING LOCATIONS SHALL BE AS FOLLOWS:

- **A. THE MARKING SHALL BE SPACED AT INTERVALS NOT EXCEEDING 5 FEET (1524 MM).**
- **B. THE MARKING SHALL BE AT ALL CHANGES OF DIRECTION.**
- **C. THE MARKING SHALL BE ON EACH SIDE OF A PENETRATION THROUGH A PARTITION, WALL, FLOOR, OR CEILING.**
- **D. THE MARKING SHALL NOT CONCEAL ANY MARKINGS REQUIRED BY THE APPLICABLE REFERENCED MATERIAL STANDARDS.**

1003.2.1.2.2 MARKING COLOR AND SIZE. THE MARKING COLOR AND SIZE SHALL BE AS FOLLOWS:

- **A. THE MARKING SHALL BE PERMANENT. THE MARKING SHALL BE AS FOLLOWS:**
  - **I. WRAP-AROUND LABELS**
  - **II. NON-ADHESIVE LABELS WITH BANDS OR TIES**
  - **III. ADHESIVE LABELS**
  - **IV. PAINTED**
  - **V. FACTORY APPLIED TO PIPING**
- **B. THE MARKING SHALL BE A BROWN FIELD MARKED "GREASE WASTE" IN WHITE LETTERS.**
- **C. THE LENGTH OF BROWN FIELD AND LETTER HEIGHT SHALL BE PER TABLE 1003.2.1.**

TABLE 1003.2.1 GREASE WASTE PIPE MARKING

PIPE DIAMETER	LENGTH OF YELLOW FIELD	LETTER HEIGHT
1-1/2" - 2" (38 MM - 51 MM)	8" (203 MM)	3/4" (19 MM)
2-1/2" - 6" (64 MM - 152 MM)	12" (305 MM)	1-1/4" (32 MM)
8" - 10" (204 MM - 254 MM)	24" (610 MM)	2-1/2" (64 MM)
OVER 10" (OVER 254 MM)	32" (813 MM)	3-1/2" (89 MM)

1003.2.3 Where not required - Conditional variance (existing FSEs only).

1003.2.3.1 Conditional variance. At the request of the FSE, the Commission may grant a conditional variance of the grease abatement system requirements if, in the judgment of the Commission, there is limited potential for FOG in the discharge when considering, including **[**but not limited to,**]** the frequency of operation, dishwashing practices, the miscibility of the discharge, the volume of flow, the type of pipe, the proximity of the pipeline to designated hot spots, history of sanitary sewer overflows or basement backups and the potential for FOG discharge based upon the menu regardless of actual FSE practices.

1003.2.3.2 Revocation of variance. The conditional variance can be revoked due to an increase in the sewer service areas maintenance for FOG, an actual blockage or a sanitary sewer overflow attributed to the FSEs FOG discharge.

1003.2.3.3 Wastewater discharge permit. This conditional variance applies to the requirement to install a grease abatement system only. FSEs granted this variance may still be required to obtain a wastewater discharge permit and will be subject to regular inspections.

1003.2.4 Prohibited connections.

1003.2.4.1 Soil pipe. Waste from bathrooms, restrooms, toilet facilities or similar fixtures conveying human waste shall connect directly to the building sanitary drain, and shall not connect through any grease abatement system.

1003.2.4.2 Signage. Where fixtures not generally subject to FOG such as fruit and vegetable washing sinks, connect to the regular building drain, a permanent engraved sign shall be posted at such sinks indicating their limited use. (Example: "VEGETABLE WASHING ONLY" or "NO GREASE").

1003.2.4.3 Food waste disposers. Food Waste Disposers shall not be installed on any fixture that requires grease abatement. The discharge from food waste disposers shall route directly to the sanitary drainage system and not pass through the required grease abatement system.

1003.2.4.4 Pumps. All grease abatement systems shall receive only stabilized flow from gravity-flow grease waste collection systems and shall not receive pressurized discharge such as from sewage pumps or lift stations. Where pumping is required, FOG must be separated **[**prior to**]BEFORE** the wet basin.

1003.2.5 Responsibility. Property owners of commercial properties, or their official designee(s), shall be responsible for the installation and maintenance of grease abatement systems serving multiple FSEs that are located on a single parcel.

1003.2.6 Maintenance of grease interceptors. Grease interceptors shall be maintained per Section 818.4 and according to manufacturer's recommendations.

1003.2.7 Flow-based grease interceptors.

1003.2.7.1 General.

1003.2.7.1.1 Discharge to flow-based grease interceptors. Flow-based grease interceptors shall receive waste only from fixtures and equipment that allow FOG to be discharged.

1003.2.7.1.2 Manufacturer specifications. Flow-based grease interceptors shall conform to PDI-G 101, ASME A112.14.3, or ASME A112.14.4 and shall be installed in accordance with manufacturer's specifications.

1003.2.7.1.3 Restrictions. The following restrictions shall apply to the selection of flow-based grease interceptors:

1003.2.7.1.3.1 Quantity of interceptors. A maximum of two flow-based grease interceptors shall be installed per FSE kitchen or food preparation location.

1003.2.7.1.3.2 Number of connections. FSEs utilizing flow-based grease interceptors shall be limited to four grease-laden fixtures, equipment, or drains; whether one or two flow-based grease interceptors are employed.

1003.2.7.1.3.3 Number of appliances. Any FSE use of flow-based grease interceptors shall be limited to four cooking appliances; whether one or two flow-based grease interceptors are employed.

1003.2.7.1.3.4 Exceeds physical capacity. Any condition where **FOG[**fog**]** generation potential, emulsification (e.g., Dishwasher), or grease storage capacity exceeds the physical capabilities of a flow-based grease interceptor.

1003.2.7.1.3.5 FSE design. Where FSE designs exceed one or more of the above parameters, the design shall incorporate a volume-based grease interceptor.

1003.2.7.1.4 Flow control device. A manufacturer required flow control device shall be installed, sized to match the interceptors flow rate, and shall be accessible for inspection, cleaning and maintenance. The flow control device shall be installed in accordance with the manufacturer's instructions.

1003.2.7.1.5 Screen or strainer. Solids screens or strainers with a maximum of 1/8 inch (3 mm) perforations shall be provided to capture the solids discharge from all sinks, such as pre-rinse stations or dish and pot washing sinks or located at floor sinks and receptors to minimize the solids discharged to flow-based grease interceptors.

1003.2.7.2 Location and installation.

1003.2.7.2.1 Location. Flow-based grease interceptors shall be installed below grade, direct buried, where listed for such application or within a vault; or indoors within a conditioned space; or in accordance with manufacturer's requirements. Mechanical flow-based grease interceptors shall not be installed below grade or slab, including within a vault or manufacturer's recess or receiver box. Mechanical flow-based grease interceptors may be partially recessed in a manner that allows all electronic components to remain 1 inch (25 mm) above finished floor.

1003.2.7.2.2 Interceptor access. Flow-based grease interceptors shall be located in a visible ready access area and readily accessible for daily maintenance, servicing and inspection by the user and the Commission. The user is responsible for providing the necessary access for inspection at their expense.

1003.2.7.2.2.1 ACCESS. IF A NEW VOLUME-BASED GREASE INTERCEPTOR MUST BE INSTALLED WITH ACCESS HIGHER THAN 3 FEET (914 MM) ABOVE FINISHED FLOOR OR GRADE, THE BUILDING OWNER SHALL INSTALL AN OSHA APPROVED PERMANENT PLATFORM AT THE INTERCEPTOR TO PROVIDE ACCESS FOR WORKERS.

[1003.2.7.2.2.1]1003.2.7.2.2.2 Failure to provide access. Failure to provide access for inspection, upon request, shall be a code violation.

1003.2.7.2.3 Visible inspection. Upon removal of the interceptor's main access cover(s), the inlet and outlet chambers and baffles shall be unobstructed for visible inspection and not require the removal of internal obstructions such as plugs, caps, panels, etc. Where visible obstructions exist, **[**auxiliary**]GREASE INTERCEPTOR** inspections ports shall be field installed into the inlet or outlet or both piping as needed. **[**Inspection ports shall meet Commission details.**]**

1003.2.7.2.4 GREASE INSPECTION PORTS FOR FLOW-BASED GREASE INTERCEPTORS. GREASE INSPECTION PORTS SHALL BE COMPOSED OF THE FOLLOWING:

- **A. AN ACCESS OPENING IN THE DRAINAGE SYSTEM UTILIZED FOR VIEWING THE EFFLUENT IN DRAINAGE PIPE.**
- **B. THE CONNECTION AT DRAINAGE PIPE SHALL BE A STRAIGHT TEE, TEST TEE, SINGLE -TWO-WAY CLEANOUT, OR SIMILAR THAT ALLOWS UNOBSTRUCTED VIEW OF EFFLUENT. SANITARY TEES AND WYES ARE PROHIBITED.**
- **C. ACCESS TO VIEW SHALL BE MADE BY REMOVABLE PLUG OR CAP. PLUG SHALL MEET THE SAME REQUIREMENTS AS THOSE FOR CLEANOUT PLUGS, IPC SECTION 708.1.7. PLUG TRIM COVERS AND ACCESS DOORS SHALL MEET THE SAME REQUIREMENTS AS CLEANOUT PLUG TRIM COVERS, IPC SECTION 708.1.11.1. FLOOR ASSEMBLIES SHALL MEET THE SAME REQUIREMENTS AS FLOOR CLEANOUT ASSEMBLIES, IPC SECTION 708.1.11.2.**
- **D. FOR BURIED PIPING, THE ACCESS OPENING SHALL EXTEND TO FLOOR BY A PIPE AT 90 DEGREES VERTICAL. THE VERTICAL PIPE SHALL BE THE SAME SIZE AS DRAINAGE PIPE, EXCEPT THAT VERTICAL PIPE FOR DRAINAGE PIPE 4 INCHES (102 MM) NEED NOT BE LARGER THAN 4 INCHES (102 MM).**
- **E. INSPECTION PORT SHALL BE PROVIDED WITH A CLEARANCE NOT LESS THAN 24 INCHES (610 MM) FROM, AND PERPENDICULAR TO, THE FACE OF THE ACCESS OPENING TO ANY OBSTRUCTION.**
- **F. DOWNSTREAM INSPECTION PORTS SHALL BE INSTALLED IN SAME ROOM AS THE GREASE INTERCEPTOR. AND SHALL BE USPSTREAM OF ANY OTHER CONNECTED BRANCHES OR FIXTURES.**

1003.2.7.2.5 CLEANOUTS FOR FLOW-BASED GREASE INTERCEPTORS. A CLEANOUT OR CLEANOUTS SHALL BE INSTALLED DOWNSTEAM OF EACH FLOW-BASED GREASE INTERCEPTOR. THE CLEANOUT OR CLEANOUTS SHALL ALLOW CLEANING IN BOTH DIRECTIONS. IF THE DISTANCE BETWEEN THE ACCESS OPENING OF INSPECTION PORT AND A PIPE INVERT IS LESS 24 INCHES (620 MM), A CLEANOUT WITH A SINGLE TWO-WAY CLEANOUT FITTING IS ALLOWED.

1003.2.7.2.6 COMBINATION INSPECTION PORT AND CLEANOUT FOR FLOW-BASED GREASE INTERCEPTORS. A **CLEANOUT WITH A SINGLE TWO-WAY CLEANOUT MAY SERVE AS A GREASE INTERCEPTOR INSPECTION PORT.**

[1003.2.7.2.4]1003.2.7.2.7 Clearance. Clearance above flow-based grease interceptors as well as solid sediment strainers shall be sufficient to fully open lid and easily remove internal components.

[1003.2.7.2.5]1003.2.7.2.8 Flow control device access. The flow control device shall be accessible for maintenance.

[1003.2.7.2.6]1003.2.8.2.9 Tampering. Tampering or otherwise bypassing or preventing a flow control device to function either by advisement from any person or actual physical change by any person shall be a violation requiring a civil citation.

1003.2.7.2.10 OUTLET CONNECTION. THE OUTLET OF FLOW-BASED GREASE INTERCEPTORS SHALL BE DIRECTLY CONNECTED TO THE DRAINAGE SYSTEM.

1003.2.7.3 Sizing.

1003.2.7.3.1 Directly connected fixtures. For sinks, fixtures and drains directly connected to a flow-based grease interceptor (no requirement for an air gap), flow-based grease interceptor sizing shall be sized utilizing Table 1003.c.

1003.2.7.3.2 Indirectly connected fixtures. For sinks, fixtures and drains indirectly connected to a flow-based grease interceptor (air gap required), a restricted flow tail piece is required and the flow-based grease interceptor shall be sized utilizing Table 1003.a and Table 1003.b. The length of individual indirect waste lines shall be limited to the provisions of the IPC Section 802.3. An indirect manifold is an extension of the sum of all indirect waste lines served and therefore is limited to accumulative internal surface area allowed for all indirect waste lines served.

1003.2.7.3.2.1 Single indirect fixture. For a single indirectly connected fixture served by a flow-based grease interceptor, the full tail piece flow rate from Table 1003.a shall be used.

1003.2.7.3.2.2 Multiple indirect fixtures. For multiple indirectly connected fixtures served by a single flow-based grease interceptor, fixtures with the highest flow rates shall be considered first, with the full tail piece flow rates for the two highest flow fixtures or drains, 1/2 of the tail piece flow rates for the next two highest flowing fixtures or drains, and 1/4 of the tail piece flow rates for each subsequent fixtures or drains shall be used (see Table 1003.b).

1003.2.7.3.3 Direct and indirect fixtures. Flow-based grease interceptors serving both indirectly and directly connected sinks, fixtures or drains shall be sized based on a proper combination of the methods listed above.

1003.2.7.3.4 Minimum interceptor size. The minimum size flow-based grease interceptor shall be 25 gpm.

TABLE 1003.A - FLOW RATES FOR VARIOUS DRAIN TAIL PIECE SIZES

Diameter of Tail Piece Pipe (inches)	Flow Rate (GPM)
3/4	12
1	20
1-1/4	30
1-1/2	40
2	65

Note: Maximum deflection, per fitting, in a 3/4-inch tailpiece, shall be 45 degrees (0.78 rad)

TABLE 1003.B - MULTIPLE INDIRECT CONNECTION FLOW FACTOR

Fixture/Drain Number	Flow Rate Factor
Fixture/Drain #1	Full Tail Piece Flow Rate
Fixture/Drain #2	Full Tail Piece Flow Rate
Fixture/Drain #3	1/2 Tail Piece Flow Rate
Fixture/Drain #4	1/2 Tail Piece Flow Rate
All additional Fixtures/Drains	1/4 Tail Piece Flow Rate

Notes: Each tub/basin of multi-compartment sinks shall be counted as individual fixtures.
For commercial dishwashers, use published or calculated flow rate, do not reduce drain/tail piece.

TABLE 1003.C - FLOW RATES FOR DIRECTLY CONNECTED FIXTURES

Drain Diameter (inches)	Flow Rate (gpm)
1-1/4	8
1-1/2	15
2	20
3	45

Notes: Examples of directly connected fixtures mop/service sinks, receptors (no tail pieces)
For hose reels, hand sinks and similar, use published or calculated flow rate.

1003.2.8 Volume-based grease interceptors.

1003.2.8.1 General.

1003.2.8.1.1 Discharge to volume-based grease interceptors. Volume-based grease interceptors shall receive the discharge of the entire kitchen and shall be sized accordingly.

Exception: Where food waste disposers are allowed by this Code, Section 1003.2.4.3, the discharge shall route directly to the sanitary drainage system and not pass through the required grease abatement system.

1003.2.8.1.2 Commission specifications. Volume-based grease interceptors shall be designed and installed in accordance with current Commission details and specifications.

1003.2.8.1.3 Precast concrete interceptors. Precast concrete interceptors shall conform to the structural requirements contained in ASTM 1613 standard specification for precast concrete interceptor tanks.

1003.2.8.2 Location and installation.

1003.2.8.2.1 Location general. In general, volume-based grease interceptors shall be located below grade outdoors or indoors; or above grade indoors where listed for such applications and within a conditioned space.

1003.2.8.2.1.1 Indoor installation. Where an outdoor location is not possible or is impractical, volume-based grease interceptors may be installed indoors within 20 feet (6096 mm) of an accessible service entrance, unless otherwise approved.

1003.2.8.2.2 Accessways for concrete volume-based grease interceptors. Manhole access or alternate accessways shall be traffic bearing to SHA rating H20 and the vertical accessways shall be of minimum size as follows:

1003.2.8.2.2.1 Cover. For all volume-based grease interceptors, the manhole frame and cover or other access cover shall have a minimum dimension of 22 inches (558 mm).

1003.2.8.2.2.2 Accessway dimension (up to 26 inches). For tank burial depth (top of tank to grade) of 26 inches (660 mm) or less, the remainder of the accessway shall have a minimum dimension of 24 inches (609 mm).

1003.2.8.2.2.3 Accessway dimension (27 inches to 60 inches). For tank burial depth of 27 inches (685 mm) to 60 inches (1,524 mm), the remainder of the accessway shall have a minimum dimension of 30 inches (762 mm) (36 inches (914 mm) or greater preferred).

1003.2.8.2.2.4 Accessway dimension (greater than 60 inches). Tank burial depths greater than 60 inches (1,524 mm) shall be engineered for the specified depth and the accessways shall have a minimum dimension of 36 inches (914 mm) (48 inches (1,219 mm) preferred).

1003.2.8.2.3 Accessways for other than concrete volume-based grease interceptors. Manhole access or alternate accessways shall be traffic bearing to SHA rating H20 and the vertical accessways shall be of minimum size be 20 inches (508 mm).

1003.2.8.2.4 Manhole and cleanout access. **[**Manholes and cleanouts shall be readily accessible for convenient inspection and maintenance.**]** The discharge or outlet piping of a volume-based grease interceptor shall be serviceable from a downstream manhole or a two-way cleanout **[**shall be installed accordingly**]**. **THE SEWER SHALL BE ABLE TO BE CLEANED IN BOTH DIRECTIONS, FROM CLEANOUTS OR MANHOLE, TO THE OUTLET OF INTERCEPTOR. THE MANHOLE SHALL BE LOCATED WITHIN 40 FEET (12 M) OF THE INTERCEPTOR OUTLET OR THE TWO-WAY CLEANOUT SHALL BE LOCATED WITHIN 10 FEET (3 M) OF INTERCEPTOR OUTLET.** A two-way cleanout consists of two individual cleanouts installed in series with each capable of cleaning out the other, a single two-way cleanout fitting is prohibited. **THE MANHOLE OR TWO-WAY CLEANOUT SHALL BE LOCATED UPSTREAM TO ANY OTHER CONNECTION TO THE SEWER. THESE MANHOLES OR CLEANOUTS SHALL BE READILY ACCESSIBLE FOR CONVENIENT INSPECTION AND MAINTENANCE.**

1003.2.8.2.5 Clearance. Volume-based grease interceptor shall have a clearance height of not less than 7 feet 6 inches (2286 mm) above the manhole or access. No structures shall be placed directly upon or over the interceptor.

1003.2.8.2.6 Depth. All volume-based grease interceptors shall be installed at a maximum depth of 12 feet (3 657 mm); measured from the bottom of the tank to the highest manhole rim elevation. In addition, the maximum elevation difference between the tank bottom and the pavement (where the hauler will be parked during service), shall be 20 feet (6096 mm).

1003.2.8.2.7 Above grade. Volume-based grease interceptors installed above grade shall be designed and installed to meet the following provisions:

1003.2.8.2.7.1 Internal loading. Engineered to withstand all conditions imposed by internal loading from empty through over-filled (where tank and piping are subject to a discharge stoppage and over-filled to a recognized overflow point).

1003.2.8.2.7.2 Hydrostatic test. Constructed and sealed in a manner that shall withstand the required hydrostatic test of 10 feet of head above the access cover elevation.

1003.2.8.2.7.3 Minimum temperature. Located in an area capable of maintaining a minimum of 50°F (10°C).

1003.2.8.2.7.4 Access. If a new volume-based grease interceptor must be installed with access higher than [5]3 feet ([1,524]914 mm) above finished floor or grade, the building owner shall install an OSHA approved permanent platform at the interceptor to provide access for workers.

1003.2.8.3 Sizing. The volume of the interceptor shall be determined by using table 1003.d. If the drainage fixture units (DFUs) are not known, the interceptor shall be sized based on the maximum DFUs allowed for the pipe size connected to the inlet of the interceptor. The DFUs shall be calculated using tables in IPC.

TABLE 1003.D - VOLUME-BASED GREASE INTERCEPTOR SIZING

Drainage Fixture Units[1] (DFUs)	Interceptor Volume (Gallons)
8	500
21	750
35	1 000
90	1 250
172	1 500
216	2 000
307	2 500
342	3 000
428	4 000
576	5 000
720	7 500
2112	10 000
2640	15 000

(from 2015 Uniform Plumbing Code Table 1014.3.6*)

*Reprinted with the permission of the International Association of Plumbing and Mechanical Officials.

Notes:
1. The maximum allowable DFUs plumbed to the kitchen drain lines that will be connected to the grease interceptor.
2. 300 Gallon Interceptor equals 5 DFUs.
3. 1,600 Gallon Interceptor equals 181 DFUs.

1003.3 Oil and sand interceptors.

1003.3.1 General. The provisions of Section 1003.2 shall only apply to drainage routed to the sanitary sewer. Portions of or entire systems where drainage is routed to a storm drainage system, or to grade, shall carry the appropriate storm water discharge permit issued by the jurisdiction having authority and shall not be bound by the provisions of this section. All oil and sand interceptor details for concrete or similar fabricated interceptors shall be plan approved [prior to]BEFORE installation and shall meet industrial waste discharge limitations per Section 804.

1003.3.1. Commission specifications. Volume-based oil and sand interceptors shall be designed and installed in accordance with current Commission details and specifications.

1003.3.1.2 Precast concrete interceptors. Precast concrete interceptors shall conform to the structural requirements contained in ASTM 1613 standard specification for precast concrete interceptor tanks.

1003.3.2 Location and installation. Location and installation shall meet the requirements of Section 1003.2.8.2.

1003.3.3 Size. The minimum size of volume-based oil and sand interceptors size shall be determined by application as follows:

Small volume-based oil and sand interceptor – 500 gallons (1,892 liters)

Large volume-based oil and sand interceptor – 1,500 gallons (6,056 liters)

[1003.2.3.1]1003.3.3.1 **Engineered sizing.** Manufactured mechanical interceptors or interceptors utilizing other means of abatement shall be submitted as an engineered design. Plan submittal shall include calculations, manufacturer's guidelines, and engineer's seal and signature. Subject to Commission plans review approval.

1003.3.4 Parking garages. Parking garages with less than 1/3 of side surface areas open to the outdoors and protected from surface and storm water run-off may have inside floor and trough drains connected to the Commission sanitary sewer through an oil and sand interceptor. Parking garages with 40 or less spaces may be served by a small oil and sand interceptor; those with greater than 40 spaces shall be served by a large interceptor.

1003.3.4.1 TRAPS NOT REQUIRED. IF APPROVED, RECEPTOR DRAINS INSIDE PARKING GARAGES ARE NOT REQUIRED TO HAVE TRAPS IF THEY DISCHARGE TO A SAND AND OIL INTERCEPTOR THAT IS APPROVED TO SERVE AS A TRAP FOR THE SYSTEM OF DRAINS.

EXCEPTION: RECEPTOR DRAINS LOCATED IN NON-PARKING INTERIOR SPACES OF PARKING GARAGES ARE REQUIRED TO HAVE A TRAP. TRAPS SHALL BE VENTED. TRAP SEALS SUBJECT TO EVAPORATION SHALL BE PROTECTED PER IPC SECTION 1002.4.1. THIS INCLUDES ELEVATOR LOBBIES, STAIRWELLS, MECHANICAL ROOMS, UTILITY ROOMS, AND STORAGE ROOMS.

1003.3.4.2 INTERCEPTOR AS TRAP. SAND AND OIL INTERCEPTORS THAT SERVE AS A TRAP SHALL CREATE A LIQUID SEAL TO PREVENT EMISSION OF SEWER GAS TO RECEPTORS DRAINS. THE INTERCEPTOR OR OUTLET PIPING SHALL BE VENTED TO PROTECT THE TRAP SEAL FROM SIPHONAGE AND BACK PRESSURE.

1003.3.5 Vehicle washing facilities. All vehicle washing facilities shall have required drains connected to the sanitary drainage system through an oil and sand interceptor as follows:

1003.3.5.1 Automatic vehicle washing. Automatic vehicle washing facilities shall have the equivalent of one large interceptor (1,500 gallon) per vehicle lane.

1003.3.5.2 Self-service vehicle washing. Self-service type vehicle washing facilities shall have the equivalent of one large interceptor (1,500 gallon) per eight wash bays. A single wash bay may be served by a small interceptor (500 gallon).

1003.3.6 Vehicle service facilities. Vehicle service facilities, maintenance and service garages, etc., shall have all inside floor and trough drains subjected to oil or sand connected to the sanitary drainage system through an interceptor.

1003.3.6.1 Small volume-based oil and sand interceptor. Up to eight bays may be served by a small interceptor.

1003.3.6.2 Large volume-based oil and sand interceptor. Up to 24 bays may be served by a large interceptor.

1003.3.7 Barns and stables. Barns, stables, and similar facilities not open to the outdoors and protected from surface and storm water run-off shall have all inside floor drains and trench drains connected to the Commission sanitary sewer through a small interceptor (500 gallon).

1003.4 Solids interceptors.

1003.4.1 Fish scale interceptor. Interceptor shall be listed for use as fish scale interceptor by manufacturer.

1003.4.2 Clothes washer discharge interceptor. Clothes washers shall discharge through an interceptor that is provided with a wire basket or similar device, removable for cleaning, that prevents passage into the drainage system of solids 1/2 inch (12.7 mm) or larger in size, string, rags, buttons or other materials detrimental to the public sewage system.

Exceptions:

1. Clothes washers in individual dwelling units shall not be required to discharge through an interceptor.
2. Up to three washers designed for use in individual dwelling units and installed in a location other than an individual dwelling unit shall not be required to discharge through an interceptor.

1003.4.3 Bottling establishments. Bottling plants shall discharge process wastes into an interceptor that will provide for the separation of broken glass or other solids before discharging waste into the drainage system.

1003.4.4 Slaughterhouses. Slaughtering room and dressing room drains shall be equipped with approved interceptors. The interceptor shall prevent the discharge into the drainage system of feathers, entrails, and other materials that cause clogging.

302.11 Amendment of IPC Chapter 11, "STORM DRAINAGE"

302.11.1 IPC Section 1101, General, is hereby AMENDED by ADDING new Section 1101.10 specifying design by a professional engineer, to read as follows:

(IPC as amended)
1101.10 Design. Storm drainage systems shall be designed by a Registered Professional Engineer and documents for review shall be stamped accordingly.

302.11.2 IPC Sections 1103 TRAPS, through Section 1113, SUMPS AND PUMPING SYSTEMS, shall be DELETED in their entirety, as these provisions shall be enforced by the county building official.

302.12 Amendment of IPC CHAPTER 12, "SPECIAL PIPING AND STORAGE SYSTEMS". IPC Chapter 12, Special Piping and Storage Systems, is hereby DELETED in its entirety.

302.13 Amendment of IPC CHAPTER 13, "NON-POTABLE WATER SYSTEMS". IPC Chapter 13, Non-Potable Water Systems, is hereby DELETED in its entirety and replaced with a new Chapter 9 in this Code.

302.14 Amendment of IPC CHAPTER 14, "SUBSURFACE [LANDSCAPE IRRIGATION] GRAYWATER SOIL ABSORPTIONSYSTEMS". IPC Chapter 13, Subsurface Landscape Irrigation Systems, is hereby DELETED in its entirety and replaced with a new Chapter 9 in this Code.

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CHAPTER 4 ADOPTION OF INTERNATIONAL FUEL GAS CODE

SECTION GENERAL 401

401.1 Adoption. The 2021 edition of the International Fuel Gas Code (IFGC), published by the International Code Council, Inc., is hereby adopted and incorporated herein by reference, and has the same force and effect as though fully set forth in this Code, subject to the additions, deletions or other modifications set forth in this Chapter as amendments thereto.

401.2 Applicability. The IPC applies to all occupancies including Group R-3 occupancies, and their accessory structures.

401.3 Availability for review. At least one copy of the aforesaid IFGC shall be filed in the Office of the Secretary of the Commission and made available for public use and inspection.

SECTION 402 AMENDMENTS TO THE INTERNATIONAL FUEL GAS CODE

402.1 Amendment of IFGC CHAPTER 1, "ADMINISTRATION". IFGC Chapter 1, Administration, is hereby DELETED in its entirety. See this Code Section 101.3.3 for a reference to IFGC 101.2.4 Systems and equipment outside the scope.

402.2 Reserved.

402.3 Amendment of IFGC CHAPTER 3, "GENERAL REGULATIONS".

402.3.1 IFGC Section 304.6, Outdoor combustion air, is hereby AMENDED by ADDING Sections 304.6.3 and 304.6.4, to mandate certain minimum requirements for combustion and ventilation air, all to read as follows:

(IPC as amended)

304.6.3 Construction heaters, recirculating. Make-up, ventilation and combustion air shall be provided in accordance with manufacturer's instructions but in no case shall the total effective opening(s) be less than 3 square feet (278,709 square mm) for every 100,000 Btu/h (29 KW). where practical, one half of the required effective opening shall be provided within 12 inches (304 mm) of the top of the enclosure and the remaining half within 12 inches (304 mm) of the bottom of the enclosure. In all cases, there shall be a minimum of two openings located in separate areas of the structure, where one is as high as practical and the other as low as practical.

304.6.4 Construction heaters, non-recirculating. A means to provide ventilation and exhaust shall be provided in accordance with manufacturer's instructions but in no case shall the total effective opening(s) be less than 1.5 square feet (139,355 square mm) for every 100,000 btu/h. the required effective opening shall be provided, as close as practical, to within 12 inches (304 mm) of the top of the enclosure.

402.3.2 IFGC Section 304.12, Protection from fumes and gases, is hereby AMENDED by ADDING Section 304.12.1 and 304.12.2, to require carbon monoxide detection systems for Type R and I occupancies, all to read as follows:

(IPC as amended)

304.12.1 Carbon monoxide alarms, new construction. Carbon monoxide alarms shall be required for new construction in dwelling units where fuel burning appliances are installed; carbon monoxide alarms shall be installed in accordance with the corresponding version of the International Building Code or the International Residential Code.

304.12.2 Carbon monoxide alarms, existing construction. Carbon monoxide alarms shall be required for any existing building with Group R-3 occupancy containing one or more sleeping units or dwelling units follows:

304.12.2.1 Appliance added or replaced. Where any fuel burning appliance is added or replaced, including an outdoor generator or pool heater. Exception - outdoor grill.

304.12.2.2 IRC requirements. Carbon monoxide alarms shall be installed in accordance with the corresponding version of the International Residential Code.

402.4 Amendments of IFGC CHAPTER 4, "GAS PIPING INSTALLATIONS"

402.4.1 IFGC Section 401.5, Identification, is hereby amended by modifying Section 401.5, to include additional requirements for gas pipe identification.

(IFGC as amended)

401.5 Identification. [All]**WITH THE EXCEPTION OF CSST PIPING, ALL** new installations of gas piping, both exposed and concealed, shall be identified in accordance with Sections 401.5.1 and 401.5.2.

401.5.1 Marking locations. Marking locations shall be as follows:

- **a.** The marking shall be spaced at intervals not exceeding 5 feet (1524 mm).
- **b.** **Exception:** for steel piping on the roof, the marking shall be spaced at intervals not exceeding 10 feet (3048 mm).
- **c.** The marking shall be at all changes of direction.
- **d.** The marking shall be on each side of a penetration through a partition, wall, floor, or ceiling.
- **e.** The marking shall be at every gas shutoff valve.

401.5.2 Marking color and size. The marking color and size shall be as follows:

- **a.** The marking shall be permanent. The marking shall be as follows:
  - **i.** Wrap-around labels
  - **ii.** Non-adhesive labels with bands or ties
  - **iii.** Adhesive labels
  - **iv.** Painted
  - **v.** Factory applied to piping
- **b.** The marking shall be a yellow field marked "GAS" in black letters.
- **c.** The length of yellow field and letter height shall be per Table 401.5.2.
- **[d.** Where nominal gas supply pressure is between 1 psi and 2 psi, marking shall include "MEDIUM PRESSURE" or "MEDIUM PRESS.".
- **e.** Where nominal gas supply pressure is greater than 2 psi, marking shall include "HIGH PRESSURE" or "HIGH PRESS."**]**

TABLE 401.5.2 GAS PIPE MARKING

Pipe Diameter	Length of Yellow Field	Letter Height
3/4" - 1-1/4" (19 mm - 32 mm)	8" (203 mm)	1/2" (13 mm)
1-1/2" - 2" (38 mm - 51 mm)	8" (203 mm)	3/4" (19 mm)
2-1/2" - 6" (64 mm - 152 mm)	12" (305 mm)	1-1/4" (32 mm)
8" - 10" (204 mm - 254 mm)	24" (610 mm)	2-1/2" (64 mm)
OVER 10" (OVER 254 mm)	32" (813 mm)	3-1/2" (89 mm)

For pipes less than 3/4" in diameter, a permanently legible is allowed.

402.4.2 IFGC Section 401, GENERAL, is hereby AMENDED by ADDING Section 401.11 to codify requirements of private meters and gas utility submeters, all to read as follows:

(IPC as amended)

401.11 Private meters and gas utility submeters. Private meters and gas utility submeters shall be installed as follows:

401.11.1 Listing. Listed to ANSI B109.1 or B109.2.

401.11.2 Readily accessible. Shall be readily accessible.

401.11.3 Ventilated space. Shall be located in a ventilated space.

401.11.4 Required clearance. Located at least 36 inches (914 mm) form an ignition source.

401.11.5 Support and protection. Adequately supported and protected from physical damage, temperature extremes, corrosion, or excessive vibration.

401.11.6 Identification. Where remote to a space or equipment served, each meter or its associated piping, fittings, valves, etc. Shall be permanently tagged or marked indicating the space or equipment served.

401.11.7 Prohibited locations. Installations in bedrooms, bathrooms, buried and or located in a vault below grade or slab, or hazardous locations shall be prohibited.

402.4.2 IFGC Section 402 Pipe sizing, is hereby amended by adding Section 402.8 to include requirements for pipe size after point of delivery, all to read as follows:

(IFGC as amended)

402.8 Point of delivery pipe size. The first 2-feet of piping on outlet of point of delivery may be the same size as the point of delivery.

402.4.3 IFGC Section 403.5.5 corrugated stainless steel tubing, is hereby amended by adding Section 403.5.5.1 for the prohibition of non-arc resistant corrugated stainless steel tubing under the Public Safety Article, Section 12–206, Annotated Code of Maryland:

(IFGC as amended)

403.5.5.1 Non-arc-resistant CSST. Non-arc resistant corrugated stainless steel tubing "means" corrugated stainless steel tubing listed in accordance with ANSI LC 1/CSA 6, has the following marking: "CSA/ANSI LC 1 • CSA 6.26", and does not have the words "arc-resistant"* or acronym "AR".

403.5.5.2 Prohibition. Non–arc–resistant jacketed corrugated stainless steel tubing may not be used in:

a. The new construction of a customer–owned natural gas or LP-gas piping system in a building;
b. A natural gas or LP-gas piping system in a renovated property if the renovation affects more than 50% of the total square footage of the property; or
c. A natural gas or liquefied propane piping system that requires the addition of a new gas line to the gas piping system.

402.4.4 IFGC Section 404.3 Prohibited locations, is hereby amended by adding Section 404.3.1 to include requirements for underground pipelines after meter, all to read as follows:

(IFGC as amended)

404.3.1 Residential underground piping after service meter assembly. Per COMAR 20.55.09.07, **UNLESS THE PIPING CARRIES ONLY TO GAS UTILIZATION EQUIPMENT LOCATED OUTDOORS,** residential underground piping after service meter assembly is prohibited **[**unless the piping carries only to gas utilization equipment located outdoors**]**.

If it is not possible to comply with this COMAR regulation, written permission shall be obtained from the Maryland public service Commission and submitted to Commission before placing the meter.

402.4.5 IFGC Section 406.1.2, Repairs and additions, is hereby AMENDED by referring to and ADDING thereto new Section 406.1.2.1, all to read as follows:

(IFGC as amended)

406.1.2 (IRC G2417.1.2) Repairs and additions. In the event repairs or additions are made after the pressure test, the affected piping shall be tested.

Minor repairs and additions are not required to be pressure tested provided that the work is inspected and connections are tested with a non-corrosive leak-detecting fluid or other approved leak-detecting methods, as cited in Section 406.1.2.1.

406.1.2.1 Twelve joint rule. Where an existing gas piping system is altered, repaired, or extended, a soap test shall be permitted in lieu of a pressure test, under the following conditions:

a. A maximum of 12 joints in the new and disturbed piping are allowed, excluding the equipment connector.
b. The new piping and any disturbed piping shall not be concealed **[**prior to**]BEFORE** testing and passing inspection.
c. The developed length of the new piping shall not exceed 15 feet (4,572 mm).

It shall be the licensee's responsibility to perform the required soap test **[**prior to**]BEFORE** inspection, and to ensure that the piping does not leak. Specialized leak detection equipment shall also qualify as a soap test.

402.4.6 IFGC SECTION 410.3.1, VENT PIPING, IS HEREBY AMENDED BY ADDING LANGUAGE REGARDING INSTALALTION OF REGULATOR VENTS BELOW GRADE:

(IFGC AS AMENDED)

410.3.1 VENT PIPING. VENT PIPING FOR RELIEF VENTS AND BREATHER VENTS SHALL BE CONSTRUCTED OF MATERIALS ALLOWED FOR GAS PIPING IN ACCORDANCE WITH SECTION 403. VENT PIPING SHALL NOT BE SMALLER THAN THE VENT CONNECTION ON THE PRESSURE-REGULATING DEVICE. VENT PIPING SERVING RELIEF VENTS AND COMBINATION RELIEF AND BREATHER VENTS SHALL BE RUN INDEPENDENTLY TO THE OUTDOORS AND SHALL SERVE ONLY A SINGLE DEVICE VENT. VENT PIPING SERVING ONLY BREATHER VENTS IS PERMITTED TO BE CONNECTED IN A MANIFOLD ARRANGEMENT WHERE SIZED IN ACCORDANCE WITH AN APPROVED DESIGN THAT MINIMIZES BACKPRESSURE IN THE EVENT OF DIAPHRAGM RUPTURE. REGULATOR VENT PIPING SHALL NOT EXCEED THE LENGTH SPECIFIED IN THE REGULATOR MANUFACTURER'S INSTRUCTIONS. EXCEPT AS ALLOWED BY MANUFACTURER, REGULATOR VENT PIPING SHALL NOT BE INSTALLED UNDERGROUND.

[402.4.6]402.4.7 IFGC Section 412, LIQUEFIED PETROLEUM GAS MOTOR VEHICLE FUEL-DISPENSING STATIONS, is hereby DELETED in its entirety.

[402.4.7]402.4.8 IFGC Section 413, COMPRESSED NATURAL GAS MOTOR VEHICLE FUEL-DISPENSING STATIONS, is hereby DELETED in its entirety.

402.5 Amendments of IFGC CHAPTER 5, "CHIMNEYS AND VENTS"

402.5.1 IFGC Sections 503, Venting of appliances, and 504, Sizing of category I appliance venting systems , are hereby AMENDED by MODIFYING Sections 503.5.5, 503.5.6, 504.2.9, 504.3.20 and specific related Tables to clarify the provisions relating to masonry chimneys and align with 2015 Department of Energy mandated increases in water heater efficiencies, all to read as follows:

(IFGC as amended)

503.5.5 Size of chimneys. Delete methods 2 and 3.

503.5.6 Inspection of chimneys. Delete the exception.

504.2.9 Chimney and vent locations. Tables 504.2(1), 504.2(2), and 504.2(5) shall be used only for chimneys and vents not exposed to the outdoors below the roof line. A Type B vent or listed chimney lining system passing through an unused masonry chimney flue shall not be considered to be exposed to the outdoors. Where vents extend outdoors above the roof more than 5 feet (1 524 mm) higher than required by Figure 503.6.4, and where the vents terminate in accordance with Section 503.6.4, Item 2, the outdoor portion of the vent shall be enclosed as required by this section for vents not considered to be exposed to the outdoors or such systems shall be engineered. A Type B vent shall not be considered to be exposed to the outdoors where it passes through an unventilated enclosure or chase insulted to a value or not less than R8.

Table 504.2(3) in combination with Table 504.2(6) shall be used for clay-lined interior and exterior masonry chimneys, provide that all of the following are met:

1. Vent connector is a Type B double wall.
2. Vent connector length is limited to 18 inches (457 mm) for each inch (25 mm) of vent connector.
3. The appliance is draft hood factory-equipped without a damper or draft inducer.
4. The input rating is less than the maximum capacity given by Table 504.2(3).
5. For a water heater, the outdoor design temperature is not less than 5°F (-15°C).
6. For any appliance, the input rating is greater than the minimum capacity given by Table 504.2(6).

504.3.20 Chimney and vent locations. Tables 504.3(1), 504.3(2), and 504.2(5) shall be used only for chimneys and vents not exposed to the outdoors below the roof line. A Type B vent or listed chimney lining system passing through an unused masonry chimney flue shall not be considered to be exposed to the outdoors. Where vents extend outdoors above the roof more than 5 feet (1,524 mm) higher than required by Figure 503.6.4, and where the vents terminate in accordance with Section 503.6.4, Item 2, the outdoor portion of the vent shall be enclosed as required by this section for vents not considered to be exposed to the outdoors or such systems shall be engineered. A Type B vent shall not be considered to be exposed to the outdoors where it passes through an unventilated enclosure or chase insulted to a value or not less than R8.

Table 504.3(6a), 504.3(6b), 504.3(7a) and 504.3(7b) shall be used for clay-lined interior and exterior masonry chimneys, provided that all of the following are met:

1. Vent connectors are Type B double wall.
2. Not less than one appliance is draft hood factory-equipped and no appliance is equipped with a damper or draft inducer.
3. The combined appliance input rating is less than the maximum capacity given by Table 504.3(6a) for NAT+NAT or Table 504.3(7a) for FAN+NAT.
4. The total input rating for all appliances is greater than the minimum input rating given by Table 504.3(7a) for NAT+NAT or 504.3(7b) for FAN+NAT.
5. The vent connector sizing is in accordance with Table 504.3(3).

Tables 504.2(6), 504.3(6a), 504.3(6b), 504.3(7a) and 504.3(7b), re-title as INTERIOR AND EXTERIOR MASONRY CHIMNEY

Tables 504.2(6), 504.3(6b), and 504.3(7b), delete “Space-heating” from table headings.

402.5.2 IFGC SECTION 503.10.6 JOINTS, IS HEREBY AMENDED BY ADDING REQUIREMENTS FOR MECHANICALLY FASTENED JOINTS, ALL TO READ AS FOLLOWS:

(IFGC AS AMENDED)

503.10.6 JOINTS. JOINTS BETWEEN SECTIONS OF CONNECTOR PIPING AND CONNECTIONS TO FLUE COLLARS AND DRAFT HOOD OUTLETS SHALL BE FASTENED BY ONE OF THE FOLLOWING METHODS:

1. **ROUND METALLIC DUCTS SHALL BE MECHANICALLY FASTENED BY MEANS OF AT LEAST THREE SHEET METAL SCREWS OR RIVETS SPACED EQUALLY AROUND THE JOINT.**
2. **VENT CONNECTORS OF LISTED VENT MATERIAL ASSEMBLED AND CONNECTED TO FLUE COLLARS OR DRAFT HOOD OUTLETS IN ACCORDANCE WITH THE MANUFACTURERS’ INSTRUCTIONS.**
3. **OTHER APPROVED MEANS.**

402.6 Reserved.

402.7 Amendment of IFGC Chapter 7, “GASEOUS HYDROGEN SYSTEMS“. IFGC Chapter 7, “GASEOUS HYDROGEN SYSTEMs“, is hereby DELETED in its entirety.

402.8 Reserved.

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CHAPTER 5 CROSS-CONNECTION CONTROL BACKFLOW PREVENTION

SECTION 501 GENERAL

501.1 Scope. This Chapter shall provide provisions to protect potable water distribution systems from contamination and pollution caused by unprotected or improperly protected cross-connections (also referred to as backflow or backflow prevention). this includes the installation, alteration, repair, relocation, replacement, or maintenance of plumbing systems that use backflow preventers.

501.2 IPC Section 608. IPC Section 608 – Protection of potable water supply is DELETED, see Section [302.6.11]**302.6.12** of this Code.

501.3 Definitions. See Chapter 2 of this Code.

501.4 Purpose. A potable water system shall be designed, installed and maintained in such a manner so as to prevent contamination and pollution including from non-potable liquids, solids, or gases being introduced into the potable water supply through cross-connections or any other piping connections to the potable water system). Backflow preventer applications shall conform to Table 5.2, except as specifically allowed or required in Section 506.

501.5 Pollution or contamination by distribution components. All piping, fixtures, fittings, equipment, appurtenances, accessories, filters, conditioners, heat exchangers, etc. shall be constructed of materials such that when the working surface areas of these components are in contact with potable water they shall not cause pollution or contamination.

501.6 Prohibited arrangements. Bypass arrangements, jumper connections, removable sections, swivel or changeover assemblies, or any other temporary or permanent connecting arrangement through which backflow may occur are considered to be cross-connections and are prohibited.

501.7 CROSS-CONNECTION CONTROL. EXCEPT WHERE APPROVED BACKFLOW PREVENTION ASSEMBLIES, BACKFLOW PREVENTION DEVICES OR OTHER APPROVED MEANS OR METHODS ARE INSTALLED TO PROTECT THE POTABLE WATER SUPPLY, CROSS-CONNECTIONS SHALL BE PROHIBITED.

SECTION 502 APPLICABILITY

502.1 Applicability. This Chapter applies to all occupancies, including Group R-3 occupancies, and their accessory structures.

502.2 Inspection priority ranking and facility hazard classification.

502.2.1 General. With the exception of Section 502.2.1.1, the Commission designates an inspection priority ranking to a customer's facility based on the facility type, water end use, and other cross-connection risks including low pressure vulnerability. The ranking is a numeric scale of odd number from 1 to 9; where rankings of 1 and 3 represent facilities with a high facility hazard classification and will equate to the higher tier of the program's base fee. Rankings of 5, 7, & 9 represent moderate and low facility hazard classifications and will equate to the lower tier of the program's base fee. See table 5. For a representation of inspection priority ranking number.

502.2.1.1 Exception. Group R-3 occupancies, individually metered condominiums, and individually metered apartments are exempt from inspection priority ranking and facility hazard classification.

TABLE 5.1 - FACILITY HAZARD CLASSIFICATION AND INSPECTION PRIORITY RANKING

<table>
<tr><td>Facility Hazard Classification</td><td colspan="2">High Hazard[1,3]</td><td colspan="2">Moderate Hazard</td><td>Low Hazard</td></tr>
<tr><td>Inspection Priority Ranking</td><td>1</td><td>3</td><td colspan="2">5</td><td>7</td><td>9</td></tr>
<tr><td rowspan="20">Facility Type</td><td>Hospital</td><td>Dentist</td><td colspan="2" rowspan="2">Building or property with one or more higher hazard water uses</td><td rowspan="4">Building or property with only a low hazard fire sprinkler system (No Chemicals)</td><td rowspan="4">Building or property without a water use requiring a testable backflow preventer</td></tr>
<tr><td>Urgent Care W/ Surgery</td><td>Urgent Care W/O Surgery</td></tr>
<tr><td>Laboratory</td><td rowspan="3">Doctor W/WUE[2]</td><td>Grocery</td><td>Retail</td></tr>
<tr><td rowspan="2">Industrial Processing</td><td rowspan="2">Office Building[3]</td><td rowspan="2">Church</td></tr>
<tr><td>Dry Cleaners</td><td>Schools</td><td>Assembly Hall</td></tr>
<tr><td>Concrete Plant</td><td rowspan="2">Auto Vehicle Washing</td><td>Food Service</td><td>Banks</td><td rowspan="9">Existing fire sprinkler systems shall be protected in one of two ways:
1.) Single check valve rebuilt or replaced every five years
2.) Testable backflow preventer tested annually; owner responsible for hydraulic analysis</td><td rowspan="9">These facilities will be inspected on same frequency as 5s and 7s.</td></tr>
<tr><td rowspan="2">Comm/Ind Laundry</td><td rowspan="2">Multi-Unit Residential</td><td>Library</td></tr>
<tr><td>Stadium</td><td>Police Station</td></tr>
<tr><td rowspan="2">Food Processing</td><td>Airport</td><td rowspan="2">Vehicle Service[3]</td><td>Day Care</td></tr>
<tr><td rowspan="2">Photo/Film Processing</td><td>Theater</td></tr>
<tr><td>Bottling Plant</td><td rowspan="2">Hotel/Lodge/ Motel/Inn[3]</td><td>Warehouse</td></tr>
<tr><td>Nursing Home</td><td rowspan="2">Commercial Printing</td><td rowspan="2">Mobile Home Park</td></tr>
<tr><td>Birthing Center</td><td rowspan="2">Salon/Spa/ Barber</td></tr>
<tr><td>Veterinarian</td><td rowspan="2">Commercial Pool[4]</td><td>[Camp Ground] CAMPGROUND</td></tr>
<tr><td>Funeral Home</td><td>Auto Dealer[3]</td><td>Cemetery</td></tr>
<tr><td>Morgue</td><td>Golf Courses</td><td>Drug Store</td><td rowspan="2">Doctor w/o WUE</td></tr>
<tr><td>Animal Shelter</td><td>Assisted Living</td><td>Fire House</td></tr>
<tr><td rowspan="6"></td><td>Marina</td><td rowspan="2">Racket/Tennis Club</td><td>Laundromat</td><td rowspan="6"></td></tr>
<tr><td rowspan="2">Correctional Facility</td><td>Ball Fields</td></tr>
<tr><td>Barn/Stable</td><td>Ice Rink</td></tr>
<tr><td>Crematorium</td><td colspan="2" rowspan="3"></td></tr>
<tr><td>University/ College</td></tr>
<tr><td>Radiologist/ MRI/ X-Ray</td></tr>
<tr><td></td><td>Nursery</td><td colspan="2"></td><td></td></tr>
</table>

Notes:

1 - Facilities classified as high hazard (inspection priority ranking of 1 or 3) will be inspected twice as often as facilities classified as low hazard (inspection priority ranking of 5, 7, or 9)

2 - WUE = Water Utilizing Equipment

3 - Subject to further evaluation by Code Official

4 - Commercial pools - other than a pool accessory to a single detached dwelling unit

[502.3 Containment and isolation.

502.3.1 New Facilities. New facilities, of all hazard levels, and existing facilities connecting to a new water service connection for the first time, shall require both containment and isolation assemblies or devices, as applicable. Containment backflow preventers shall be installed immediately downstream of the branch that serves the fire sprinkler system. For buildings served by an outside meter, the branches to fire and domestic shall be installed within 5 feet (1,524 mm) of where the main water service enters the building. New facilities, regardless of hazard classification, shall not have

separate service lines for fire sprinkler system and domestic use; building water services shall be sized for a combination of fire sprinkler system and domestic water usage. Fire sprinkler system supply may branch off in parallel to the building containment assembly and each branch shall be outfitted with the appropriate level of backflow prevention.

502.3.2 Existing facilities. Containment and isolation assemblies in all facilities shall remain in service, be tested annually and repaired, rebuilt or replaced as otherwise needed to ensure compliance with this Code. Devices shall be replaced or rebuilt every five years. Where any of the following conditions present as part of a design-retrofit or upgrade, containment and isolation assemblies or devices for these facilities shall meet the same requirements as cited under 502.3.1 above:

a. Replacement, upgraded, or relined Water Service.
b. Replacement or relining of a minimum of 50 percent of the water distribution piping; or the remodeling or adding of 25 percent or more to an existing plumbing system.
c. Where a residential water service connection or water service is repaired or replaced solely in response to a maintenance issue, containment backflow prevention shall not be required.

502.3.3 Retrofitting. Facilities built before May 1, 2007, without containment backflow preventers may not need to be retrofitted, unless otherwise deemed warranted by the Commission. the Commission shall require a containment backflow assembly if high degree of hazard application(s) are present. Where a facility has a containment backflow preventer not commensurate with the degree of hazard, an upgrade will be required. These facilities shall be reclassified as moderate or high hazard facilities and future inspection frequency shall be adjusted accordingly.

502.3.4 Containment backflow prevention of federal property. Containment backflow preventers are required for federal properties proximate to each water service connection. RPBA (ASSE 1013) backflow prevention assembly shall be installed above grade and protected from freezing and other physical damage per Section 507.6.2. Backflow Prevention Assembly Test Reports shall be submitted electronically consistent with the Commission's submittal requirements.

502.3.5 Isolation protection on federal property. Pursuant to federal regulations, federal properties are not required to submit Backflow Prevention Assembly Test Reports for isolation backflow prevention assemblies installed throughout the campus. Each campus shall maintain an effective backflow program in accordance with federal standards. Program managers may voluntarily submit Backflow Prevention Assembly Test Reports to the Commission; in doing so, reports shall be submitted electronically consistent with the Commission's submittal requirements.**]**

502.3 CONTAINMENT. WITH THE EXCEPTION OF SECTIONS 502.3.2, 502.5, AND 502.6, ALL FACILITIES SHALL HAVE CONTAINMENT BACKFLOW PREVENTERS. CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED FOR DOMESTIC WATER, FIRE SPRINKLER WATER, AND ANY OTHER APPROVED PARALLEL SUPPLY. REQUIREMENT FOR CONTAINMENT APPLIES TO ALL BUILDING WATER SERVICES REGARDLESS OF SOURCE, INCLUDING PRIVATE WELLS.

502.3.1 SERVICE ARRANGEMENTS. THE LOCATION OF CONTAINMENT BACKFLOW PREVENTERS IS DETERMINED BY THE ARRANGEMENT OF DOMESTIC WATER AND FIRE SPRINKLER WATER SERVICES, ANY OTHER APPROVED PARALLEL SUPPLIES, AND THE LOCATION OF METERS. GENERALLY, NEW FACILITIES SHALL HAVE COMBINATION SERVICES FOR DOMESTIC WATER AND FIRE SPRINKLER WATER. COMBINATION WATER SERVICES SHALL BE SIZED FOR DOMESTIC WATER AND FIRE SPRINKLER WATER DEMAND. AFTER ENTERING THE BUILDING, THE DOMESTIC WATER AND FIRE SPRINKLER WATER SEPARATE IN PARALLEL TO ONE ANOTHER AND EACH BRANCH SHALL HAVE CONTAINMENT BACKFLOW PREVENTER INSTALLED WITH THE APPROPRIATE LEVEL OF BACKFLOW PREVENTION. OTHER APPROVED PARALLEL SUPPLIES MAY ALSO BRANCH OFF. ALL BRANCHES SHALL HAVE CONTAINMENT. ALL END OUTLET USES SHALL BE DOWNSTREAM OF CONTAINMENT.

502.3.1.1 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN OUTSIDE METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN OUTSIDE METER, CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE COMBINATION WATER SERVICE ENTERS THE BUILDING.

502.3.1.2 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE MASTER METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE MASTER METER, CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS.

502.3.1.3 COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE DOMESTIC METER. FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER WITH AN INSIDE DOMESTIC METER, THE CONTAINMENT BACKFLOW PREVENTER FOR FIRE SPRINKLER WATER SHALL BE INSTALLED IMMEDIATELY DOWNSTREAM OF THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER. IF A METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS. IF NO METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM OF THE METER. THE BRANCH THAT SEPARATES DOMESTIC WATER AND FIRE SPRINKLER WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE COMBINATION WATER SERVICE ENTERS THE BUILDING.

502.3.1.4 SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN OUTSIDE METER. FOR SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN OUTSIDE METER, THE CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF WHERE THE WATER SERVICE ENTERS THE BUILDING.

502.3.1.5 SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN INSIDE METER. FOR SEPARATE DOMESTIC WATER OR FIRE SPRINKLER WATER WITH AN INSIDE METER, THE CONTAINMENT BACKFLOW PREVENTERS SHALL BE INSTALLED AS FOLLOWS:

A. IF A METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM CONNECTION OF METER BYPASS.
B. IF NO METER BYPASS IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE DOWNSTREAM OF THE METER.
C. IF NO METER IS REQUIRED, THE CONTAINMENT BACKFLOW PREVENTER FOR DOMESTIC WATER SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) OF THE BRANCH THAT SEPARATES THE DOMESTIC WATER AND THE FIRE SPRINKLER WATER.

502.3.2 INDIVIDUAL METER ARRANGEMENT. EACH INDIVIDUAL METER, INDIVIDUAL METER IS DEFINED IN CHAPTER 2, IS REQUIRED TO HAVE A BACKFLOW PREVENTER.

502.3.2.1 INDIVIDUAL METER BACKFLOW IN LIEU OF FACILITY CONTAINMENT. IF ALL OF THE METERS AND THE ASSOCIATED BACKFLOW PREVENTERS ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SERVICE ENTERS THE FACILITY OR ARE IN THE SAME ROOM WHERE THE DOMESTIC WATER SUPPLY BRANCHES FROM A COMBINATION SERVICE, BACKFLOW PREVENTERS FOR COMMISSION INDIVIDUAL METERS MAY SERVE AS CONTAINMENT FOR DOMESTIC WATER.

502.3.3 PARALLEL CONTAINMENT. IN NON-RESIDENTIAL APPLICATIONS, MULTIPLE WATER SYSTEMS MAY BE ESTABLISHED IN PARALLEL. BACKFLOW PREVENTERS FOR PARALLEL SYSTEMS SHALL BE IN THE SAME ROOM WHERE THE DOMESTIC WATER SERVICE ENTERS THE FACILITY OR IN THE SAME ROOM WHERE THE DOMESTIC WATER SUPPLY BRANCHES FROM A COMBINATION SERVICE. PARALLEL SYSTEMS SHALL BE ESTABLISHED AS FOLLOWS:

502.3.3.1 FIRE SPRINKLER WATER SYSTEMS. FIRE SPRINKLER SYSTEMS SHALL BE THE FIRST SUPPLY BRANCH. THIS BRANCH SHALL BE AHEAD OF AN INSIDE DOMESTIC METER AND SHALL HAVE A CONTAINMENT BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.

502.3.3.2 DOMESTIC WATER SYSTEM. DOMESTIC BRANCH SHALL BE DOWNSTREAM OF AN INSIDE METER AND SHALL HAVE A CONTAINMENT BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.

502.3.3.3 IRRIGATION WATER SYSTEM. THIS BRANCH MAY BE AHEAD OF PRESSURE REDUCING STATION, IF APPLICABLE, AND SHALL HAVE A BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD.

502.3.3.4 NON-POTABLE WATER SYSTEM. NON-POTABLE WATER SYSTEM BRANCH SHALL HAVE AN RPBA (ASSE 1013) CONTAINMENT BACKFLOW PREVENTER.

502.3.3.5 OTHER WATER SYSTEM. OTHER WATER SYSTEM BRANCH SHALL HAVE A CONTAINMENT BACKFLOW PREVENTER COMMENSURATE WITH DEGREE OF HAZARD AND BE APPROVED.

502.4 ISOLATION. EXCEPT FOR SECTIONS 502.5 AND 502.6, ALL FACILITIES SHALL HAVE ISOLATION BACKFLOW PREVENTERS.

502.5 REQUIREMENTS TO RETROFIT EXISTING FACILITIES. WITH THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FACILITIES BUILT BEFORE MAY 1, 2007, AND WITHOUT CONTAINMENT ARE NOT REQUIRED TO HAVE CONTAINMENT. WITH

THE EXCEPTION OF SECTIONS 502.5.1 THROUGH 502.5.3, FIXTURES AND EQUIPMENT INSTALLED BEFORE MAY 1, 2007, AND WITHOUT ISOLATION ARE NOT REQUIRED TO HAVE ISOLATION.

502.5.1 HIGH DEGREE OF HAZARD PRESENT. WHERE A HIGH DEGREE OF HAZARD APPLICATION IS PRESENT, THE ADDITION OF CONTAINMENT AND ISOLATION BACKFLOW PREVENTERS IS REQUIRED. WHERE A FACILITY HAS A HIGH HAZARD APPLICATION AND AN EXISTING BACKFLOW PREVENTER IS NOT COMMENSURATE WITH THE DEGREE OF HAZARD, THE BACKFLOW PREVENTER SHALL BE REPLACED WITH A BACKFLOW PREVENTER WITH A HIGH DEGREE OF HAZARD. THESE FACILITIES SHALL BE RECLASSIFIED AS MODERATE OR HIGH HAZARD FACILITIES AND FUTURE INSPECTION FREQUENCY SHALL BE ADJUSTED ACCORDINGLY.

502.5.2 VOLUNTARY CHANGES TO EXISTING FACILITIES. WHERE ANY OF THE FOLLOWING CONDITIONS PRESENT AS PART OF A VOLUNTARY CHANGE TO AN EXISTING FACILITY, CONTAINMENT AND ISOLATION FOR THE EXISTING FACILITY SHALL MEET THE SAME REQUIREMENTS AS A NEW FACILITY,

- **A. REPLACEMENT OR RELINED WATER SERVICE.**
- **B. CHANGE IN WATER SERVICE CONNECTION SIZE.**
- **C. REPLACEMENT OR RELINING OF A MINIMUM OF 50 PERCENT OF THE WATER DISTRIBUTION PIPING; OR THE REMODELING OR ADDING OF 25 PERCENT OR MORE TO AN EXISTING PLUMBING SYSTEM.**
- **D. REPLACEMENT OR CHANGE OF WATER METER.**
- **E. RESTORATION OF WATER PIPING, UNDER SECTION 302.6.12.**
- **F. HOMEOWNER PERMIT, UNDER SECTION 105.9.4.4.**

EXCEPTION: WHERE A RESIDENTIAL WATER SERVICE CONNECTION OR WATER SERVICE IS REPAIRED OR REPLACED SOLELY IN RESPONSE TO A MAINTENANCE ISSUE, ADDITION OF BACKFLOW PREVENTION IS NOT REQUIRED.

502.5.3 DEEMED WARRANTED BY THE COMMISSION. THE COMMISSION MAY REQUIRE CONTAINMENT OR ISOLATION WHERE DEEMED WARRANTED BY THE COMMISSION.

502.6 CONTAINMENT AND ISOLATION OF FEDERAL PROPERTIES. PURSUANT TO FEDERAL REGULATIONS, THE COMMISSION DOES NOT HAVE THE AUTHORITY TO ENFORCE PLUMBING AND GASFITTING REGULATIONS ON FEDERAL PROPERTY. THE COMMISSION REQUIRES PROPERTY CONTAINMENT FOR FEDERAL PROPERTIES.

502.6.1 PROPERTY CONTAINMENT OF FEDERAL PROPERTY. WITH THE EXCEPTION OF SECTION 502.6.3, FOR THE PROPERTY CONTAINMENT OF A FEDERAL PROPERTY, AN RPBA (ASSE 1013) TESTABLE BACKFLOW PREVENTION ASSEMBLY SHALL BE INSTALLED AT EACH WATER SERVICE CONNECTION. PURSUANT TO SECTION 507.6.4, FOR PROPERTY CONTAINMENT, AN RPBA (ASSE 1013) SHALL BE INSTALLED ON-PROPERTY, ADJACENT TO PROPERTY LINE, AND ABOVE GRADE AND PROTECTED FROM FREEZING AND OTHER PHYSICAL DAMAGE. CROSS-CONNECTION TEST REPORTS FOR PROPERTY CONTAINMENT TESTABLE BACKFLOW PREVENTION ASSEMBLIES SHALL BE SUBMITTED ELECTRONICALLY CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS.

502.6.2 TEST REPORTS FOR FEDERAL PROPERTIES. WITH THE EXCEPTION OF SECTION 502.6.3, FEDERAL PROPERTIES ARE NOT REQUIRED TO SUBMIT CROSS-CONNECTION TEST REPORTS FOR CONTAINMENT AND ISOLATION BACKFLOW PREVENTION ASSEMBLIES INSTALLED THROUGHOUT THE CAMPUS. HOWEVER, EACH CAMPUS SHALL MAINTAIN AN EFFECTIVE BACKFLOW PROGRAM IN ACCORDANCE WITH FEDERAL STANDARDS. CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS, PROGRAM MANAGERS MAY VOLUNTARILY SUBMIT CROSS-CONNECTION TEST REPORTS TO THE COMMISSION.

502.6.3 CONTAINMENT AND ISOLATION IN LIEU OF PROPERTY CONTAINMENT. IF APPROVED, A FEDERAL PROPERTY MAY HAVE CONTAINMENT AND ISOLATION IN LIEU OF PROPERTY CONTAINMENT. CONTAINMENT AND ISOLATION BACKFLOW PREVENTERS SHALL BE INSTALLED, MAINTAINED, AND TESTED ACCORDING TO THE CODE. CONSISTENT WITH THE COMMISSION'S SUBMITTAL REQUIREMENTS UNDER SECTION 504.4, FOR TESTABLE BACKFLOW PREVENTION ASSEMBLIES, CROSS-CONNECTION TEST REPORTS SHALL BE SUBMITTED ELECTRONICALLY.

SECTION 503 CUSTOMER'S RESPONSIBILITIES

503.1 Backflow notification. The customer shall immediately notify the Commission if there is reason to believe that backflow has or may have occurred. This shall include private water system, plumbing fixture, equipment utilizing water, or any building system with the means of contaminating the public water system or building's potable water distribution system.

503.2 Testing and maintenance of backflow preventers. The customer, at the customer's own expense, shall purchase, install, operate, test and maintain approved backflow preventers as directed by the Commission. The customer shall immediately correct any malfunction of a backflow preventer revealed by periodic testing or observation. Testable backflow

prevention assemblies shall be tested annually or as otherwise directed by the Commission. Non-testable backflow prevention devices shall be replaced or rebuilt every five years.

503.3 WSSC-Licensed Cross-Connection Technician. The customer shall be responsible for hiring a Cross-Connection Technician (who is employed by a WSSC-Licensed Master Plumber) to test, maintain, and certify the installation of testable backflow prevention assemblies.

503.4 Elimination of cross-connections. The customer shall be responsible for the elimination of, or protection against, cross-connections on their premises.

503.5 Record keeping. The customer shall be responsible for maintaining all necessary records on backflow preventers.

503.6 Change of use. The customer shall immediately contact the Commission when the use of the customer's property changes. The Commission shall then reassess the degree of hazard classification of the property and determine if an inspection is warranted.

503.7 Removal of backflow preventers. The customer shall notify the Commission in writing of any backflow preventers that have been removed.

SECTION 504 CROSS-CONNECTION CONTROL TECHNICIAN'S RESPONSIBILITIES

504.1 Violations. Cross-Connection Technicians shall be held responsible for the violation of any part of this Code whether the violation is committed by themselves or by their employees or agents.

504.2 Testing and maintenance of backflow preventers. Cross-Connection Technicians shall be responsible for performing accurate field tests and for repairing, overhauling or replacing backflow preventers. Unless otherwise approved by the Commission, it shall be the Cross-Connection Technician's responsibility to safeguard the design, material or operational characteristics of an assembly during repair or maintenance.

504.3 Generation of data. Cross-Connection Technicians shall be responsible for the accurate generation of data, a correct assessment of the workings of each assembly tested, and proper dissemination of the data to the Commission and to the customer.

504.3.1 Preservation of backflow assembly identification. Where testable backflow prevention assemblies are installed in areas with certain atmospheres that are detrimental to the manufacturer's identification plate, the owner or their agent shall record the assembly's critical identifying information to include serial number, make, and model number. This information shall be affixed to the assembly at the time of inspection by one of the following methods or as approved by a Code Official:

504.3.1.1 Engraving. Engraving of the required information an inert material, such as plastic, and secured to the assembly.

504.3.1.2 Label. Creation of a label with legible print or type, inserted in a durable, transparent and sealable plastic bag or sleeve and securing to the assembly.

504.4 Cross-Connection Test Reports.

504.4.1 Documentation. Any work completed by a Cross-Connection Technician to achieve satisfactory test results for a customer shall be documented on a Commission Backflow Prevention Assembly Test Report. All test reports shall have an assigned test report number.

504.4.2 Cross-Connection Test Report System. The Cross-Connection Test Report System is the Commission's online program used for the purchase and submission of cross-connection test reports.

504.4.3 Purchase. All test reports must be purchased online from the Cross-Connection Test Report System.

504.4.4 Submittal deadline. The backflow prevention assembly test report shall be submitted to the Commission within 30 days of a successful test.

504.4.5 Responsibility. The principal licensee shall be responsible for submitting timely Backflow Prevention Assembly Test Reports.

504.4.6 FINAL INSPECTION. CROSS-CONNECTION TEST REPORT FORMS PRINTED FROM THE COMMISSION'S TEST REPORT SYSTEM, INCLUDING TEST REPORT NUMBER, SHALL BE AVAILABLE FOR FINAL INSPECTION.

504.5 Replacement parts. Cross-Connection Technicians shall be responsible for ensuring that original manufacturer parts are used in the repair or rebuild of backflow preventers.

504.6 Safety procedures. Cross-Connection Technicians shall conduct testing upon assurance that all safety procedures have been observed and that all personnel involved have been appropriately notified.

504.7 Cross-Connection Technician's certification. A Cross-Connection Technician's certification shall be kept current by completing recertification on or before the date the current certification expires. Any lapses in certification or discontinuance of certification shall be reported to the Commission. See Section [118.6.11]**117.7.11**.

504.8 Removal of backflow preventers. Where systems or equipment and the corresponding backflow preventers are removed, a short form permit is required for the Code Official to verify the complete divorcement. The actual backflow preventers shall be present or their pertinent information (make, size, serial number, hazard served, etc.) must be provided to the Code Official.

SECTION 505 SELECTION OF BACKFLOW PREVENTERS

505.1 Approved standards. Backflow preventers shall conform to standards listed in this Code.

505.2 Other standards. Backflow preventers manufactured to other standards may also be installed, provided written approval is first obtained from the Commission. **[**All equipment connected to the potable water supply system used to retract human or animal body fluids shall be protected by an air gap or a reduced pressure principle backflow assembly.**]**

505.3 Application of backflow preventers. Application of backflow preventers**,** including those listed in Table 5.2**,** shall be subject to field verification of degree of hazards and conditions by the Commission.

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASME A112.1.2, ASME A113.1.2	Air Gap	Backsiphonage and backpressure	High	Air gap shall be at least double the diameter of the supply pipe measured vertically above the top of the rim of the vessel. In no case shall it be less than 1 inch (25 mm).	Continuous	See bypass arrangements	Lavatory, Sink, or Bathtub Spouts Pot Fillers Residential Type Dishwashers Residential Type Clothes Washers Residential Type Refrigerator/Ice Maker
ASSE 1001, CSA B64.1.1	Pipe Applied Vacuum Breaker	Backsiphonage	High	6 inches above highest outlet Vertical position only No downstream valves	Intermittent	Outside of Fume Hood or Similar Environments	Goosenecks and appliances not subject to back pressure or continuous pressure
ASSE 1011, ASME A112.21.3, CSA B64.2, CSA B64.2.1	Hose Connection Vacuum Breaker	Backsiphonage	High	Locked on hose bibb threads	Intermittent	Yard hydrant supply requires auxiliary or additional protection	Hose Bibb, Wall Hydrant and Sill cock
ASSE 1012, CSA B64.3	Dual Check Valve with Atmospheric Vent	Backsiphonage and backpressure	Low	[Any accessible position] ATMOSPHERIC VENT Drain piped to floor or by air gap over a receptor [(Horizontal only)]	Continuous	Drain/vent outlet shall be between 3 & 9 o'clock See note[1]	Residential Boiler, Spas, Hot Tubs, Residential Water Treatment System, Heat Transfer Fluid Make-up to a Single Wall Heat Exchanger utilizing only Non-Toxic Heat Transfer Fluid

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS (CONTINUED)

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASSE 1013, AWWA C511, CSA B64.4, CSA B64.4.1	Reduced Pressure Principle Backflow Preventer	Backsiphonage and backpressure	High	[Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal installation, Vertical installation allowed for approved models Relief Valve Drain piped to air gap over a receptor Area shall be suitable for uncontrolled discharge For Residential Outdoors Only	Continuous	Valves per Section 507.5 Valves See Section 507.3.1 See note[2]	Chemical or Biological Systems Chilled Water / Cooling Tower Commercial Boiler / Heat Exchanger utilizing Toxic Heat Transfer Fluid[3] Commercial Swimming Pool, Spas, etc. Food Injection Equipment Hospital Equipment Lawn Irrigation Dental / Medical Vacuum Systems Interconnection w/a Non-potable System Water and Wastewater Treatment Plants Fire Sprinkler with Chemical Additives Exhaust Hood / Degreaser Commercial Water Treatment System Commerical Clothes Washer Commercial/Industrial Laundry Vehicle or Train Wash System Hose Bibb(s) in Hazardous Area
ASSE 1014, ASME A112.18.3	Backflow Prevention Devices for Hand-Held Showers	Backsiphonage and backpressure	Low	The device should be only installed in areas where spillage of water will not cause damage	Intermittent	Hand-held showers shall provide backflow protection in accordance with ASME A112.18.1/CSA B125.1, or shall be protected against backflow by a device complying with ASME A112.18.3 or ASSE 1014	Hand-Held Showers

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS (CONTINUED)

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASSE 1015, AWWA C510, CSA B64.5, CSA B64.5.1	Double Check Valve Assembly	Backsiphonage and backpressure	Low	[Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal or Vertical Installation	Continuous	Valves per Section 507.5 Valves See note[2]	Fire Sprinkler without Chemical Additive, Wash Down Rack, Culinary Pressure Cooker & Industrial Food Steamer (1" or larger), Commercial Domestic Water - Low and Moderate Containment
ASSE 1019, ASME A112.21.3, CSA B64.2.2	Vacuum Breaker Wall Hydrants	Backsiphonage	High	Mounting Height Minimum 6 inches above grade	Intermittent	Integral to Hydrant	Wall Hydrants
ASSE 1020, CSA B64.1.2	Pressure Type Vacuum Breaker	Backsiphonage	High	Mounting Height Minimum of 12 inches above highest outlet, [Maximum 60 inches to floor/grade] Orientation Vertical only Location [Area Shall Be Suitable for Uncontrolled Discharge] [Residential] Outdoors Only	Continuous	See note[2] Valves per Section 507.5 Valves	Residential Lawn Sprinklers
ASSE 1022	Backflow Preventer for Carbonated Beverage Machines	Backsiphonage and backpressure	[Low] HIGH	Orientation Vertical or horizontal ATMOSPHERIC PORT DRAIN PIPED TO FLOOR OR BY AIR GAP OVER A RECEPTOR Pipe Material No copper pipe downstream of backflow preventer	Continuous	See note[1]	Carbonated Beverage System or Equipment Non-Carbonated Beverage System or Equipment

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS (CONTINUED)

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASSE 1024, CSA B64.6	Dual Check Valve	Backsiphonage and backpressure	Low	---	Continuous	See note[1]	Residential Domestic Water Containment Residential Fire Sprinkler System Outside Drinking Fountain **WITH BELOW GRADE DRAIN PORT** Non-carbonated Beverage Dispenser Soft Serve Ice Cream or Yogurt Commercial Ice Maker Dental Operative Unit Water Filter Cartridge Humidifier **THAT DOES NOT HAVE APPROVED INTEGRAL BACKFLOW PROTECTION** Hand Held Shower Tub Spout Below Flood Rim Shower Steamer Food Steamer (less than 1 inch); Wok Range; Proofer; [Eye Wash Station]**EMERGENCY SHOWERS AND EYEWASH STATIONS WITH HOSE** Clothes Dryer with Steamer Dental Model Trimmer Bidet without integral backflow
ASSE 1035, CSA B64.7	Laboratory Faucet Backflow Preventer	Backsiphonage	High	6 inches above downstream piping, Area suitable for discharge	Intermittent	---	Chemical faucets, Hose sprays on faucets not meeting standards, Miscellaneous faucet applications

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS (CONTINUED)

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASSE 1047	Reduced Pressure Detector Assembly	Backsiphonage and backpressure	High	[Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal installation, Vertical installation allowed for approved models Relief Valve Drain piped to air gap over a receptor Area shall be suitable for uncontrolled discharge	Continuous	See note[2] See Section 507.3.1	Fire Sprinkler with Chemical Additive and where Detector Meter is needed
ASSE 1048	Double Check Detector Assembly	Backsiphonage and backpressure	Low	[Inside building 18 inches to 48 inches for greater than 2 inch 60 inches for 2 inch or less (centerline to floor)] Outside building 18 inches to 24 inches (centerline to grade) Orientation Horizontal or Vertical Installation	Continuous	See note[2]	Fire Sprinkler without Chemical Additive and where Detector Meter is needed
ASSE 1052, ASME A112.21.3, CSA B64.2.1.1	Dual Check Vacuum Breakers	Backsiphonage and Low-Head[4] backpressure	High	Hose Bibb Dual Check Vacuum Breaker	Intermittent	---	Miscellaneous Hose Bibb Connection
ASSE 1055	Chemical Dispensers with Integral Backflow Protection	Backsiphonage	High	Minimum of 12 inches above outlet and stored concentrate	Intermittent	---	Janitorial Product Dispensing

TABLE 5.2 APPLICATION OF BACKFLOW PREVENTERS (CONTINUED)

Applicable Standards	Backflow Preventer or Method	Type of Protection	Degree of Hazard	Installation Dimensions and Position	Pressure Condition	Comments	Applications
ASSE 1056, CSA B64.1.3	Spill-Resistant Vacuum Breaker	Backsiphonage	High	Mounting Height Minimum of 12 inches above highest outlet[, Maximum 60 inches to floor/grade] Orientation Vertical only	Continuous	Valves per Section 507.5 Valves	Soap dispensers Specialty sinks Cleaning equipment Emergency Drenching Hose Pet Groom/Treatment station/tub/shower
ASSE 1081	Backflow Preventer with Intermediate Atmospheric Vent and Pressure-Reducing Valve	Backsiphonage and backpressure	Low	[Any accessible position] ATMOSPHERIC VENT Drain piped to floor or by air gap over a receptor ORIENTATION [(Horizontal only)]HORIZONTAL ONLY	Continuous	Drain/vent outlet shall be between 3 & 9 o'clock See note[1]	Residential Boilers

NOTES

[1]A dated test tag shall be attached to or hung nearby all ASSE 1012, ASSE 1022, ASSE 1024 and ASSE 1081 devices, see Section 508.3.1.2.1. The Commission provides tags, see Section

[2]A dated test tag shall be attached to or hung nearby all ASSE 1013, ASSE 1015, ASSE 1020, ASSE 1047, ASSE 1048, and ASSE 1056 assemblies, see Section 508.3.1.1.1. the Commission provides tags, see Section 108.2.1.8.

[3]Double wall heat exchanger required for domestic hot water production where toxic heat transfer fluid is utilized.

[4]Low-head backpressure does not exceed that generated by an elevated hose equal to or less than 3 m (10 ft) in height.

505.4 PROTECTION BY AIR GAP. AS SPECIFIED IN TABLE 505.4, OPENINGS AND OUTLETS SHALL BE PROTECTED BY AN AIR GAP BETWEEN THE OPENING AND THE FIXTURE FLOOD LEVEL RIM. OPENINGS AND OUTLETS EQUIPPED FOR HOSE CONNECTION SHALL BE PROTECTED BY MEANS OTHER THAN AN AIR GAP.

TABLE 505.4 – MINIMUM REQUIRED AIR GAP

FIXTURE	MINIMUM AIR GAP	
	AWAY FROM A WALL[A] (INCHES)	CLOSE TO A WALL (INCHES)
LAVATORIES AND OTHER FIXTURES WITH EFFECTIVE OPENINGS NOT GREATER THAN 1/2 INCH IN DIAMETER	1	1 1/2
SINKS, LAUNDRY TRAYS, GOOSENECK BACK FAUCETS AND OTHER FIXTURES WITH EFFECTIVE OPENINGS NOT GREATER THAN 3/4 INCH IN DIAMETER	1 1/2	2 1/2
OVER-RIM BATH FILLERS AND OTHER FIXTURES WITH EFFECTIVE OPENINGS NOT GREATER THAN 1 INCH IN DIAMETER	2	3
DRINKING WATER FOUNTAINS, SINGLE ORIFICE NOT GREATER THAN 7/16 INCH IN DIAMETER OR MULTIPLE ORIFICES WITH A TOTAL AREA OF 0.150 SQUARE INCH (AREA OF CIRCLE 7/16 INCH IN DIAMETER)	1	1 1/2
EFFECTIVE OPENINGS GREATER THAN 1 INCH	TWO TIMES THE DIAMETER OF THE EFFECTIVE OPENING	THREE TIMES THE DIAMETER OF THE EFFECTIVE OPENING

FOR SI: 1 INCH = 25.4 MM, 1 SQUARE INCH 645 MM^2.

A. APPLICABLE WHERE WALLS OR OBSTRUCTIONS ARE SPACED FROM THE NEAREST INSIDE-EDGE OF THE SPOUT OPENING A DISTANCE GREATER THAN THREE TIMES THE DIAMETER OF THE EFFECTIVE OPENING FOR A SINGLE WALL, OR A DISTANCE GREATER THAN FOUR TIMES THE DIAMETER OF THE EFFECTIVE OPENING FOR TWO INTERSECTING WALLS.

SECTION 506 BACKFLOW PREVENTION FOR SPECIFIC FACILITIES OR USES

506.1 Plumbing fixtures. The supply lines and fittings for every plumbing fixture shall be installed so as to prevent backflow. Plumbing fixture fittings shall provide backflow prevention in accordance with ASME A112.18.1**/CSA B125.1**.

506.1.1 Fixture outlet alteration. Other than a lab sink faucet spout, a water outlet such as a fixture faucet, shall not be altered beyond its original intent. The use of a wye-branch fitting or other manifold type assembly shall not be used to serve multiple systems, equipment, appurtenances, etc. Each usage shall be provided with an individual water rough-in, provided with a shut-off valve per IPC Section 606.2, and protected against backflow commensurate with the degree of hazard for that use.

506.2 Appurtenances, appliances and apparatus. All appurtenances, appliances and apparatus intended to provide some special function, such as sterilization, distillation, processing, cooling, or storage of ice or food, and that connect to the water supply system, shall be provided with prevention against backflow and contamination of the water supply system. Water pumps, filters, softeners, tanks and all other appliances, appurtenances and devices that convey potable water shall be constructed of certain materials and contain components that maintain the potability of the water and protect against contamination.

506.3 SPECIAL EQUIPMENT, WATER SUPPLY PROTECTION. ALL EQUIPMENT CONNECTED TO THE POTABLE WATER SUPPLY SYSTEM USED TO RETRACT HUMAN OR ANIMAL BODY FLUIDS SHALL BE PROTECTED BY AN AIR GAP OR A RPBA (ASSE 1013). VACUUM BREAKERS FOR BEDPAN WASHER HOSES SHALL NOT BE LOCATED LESS THAN 5 FEET (1524 MM) ABOVE

THE FLOOR. VACUUM BREAKERS FOR HOSE CONNECTIONS IN HEALTH CARE OR LABORATORY AREAS SHALL BE NOT LESS THAN 6 FEET (1829 MM) ABOVE THE FLOOR.

506.4 POTABLE WATER HANDLING AND TREATMENT EQUIPMENT.WATER PUMPS, FILTERS, SOFTENERS, TANKS AND OTHER APPLIANCES AND DEVICES THAT HANDLE OR TREAT POTABLE WATER TO BE SUPPLIED TO THE POTABLE WATER DISTRIBUTION SYSTEM SHALL BE LOCATED TO PREVENT CONTAMINATION FROM ENTERING THE APPLIANCES AND DEVICES. OVERFLOW, RELIEF VALVE AND WASTE DISCHARGE PIPES FROM SUCH APPLIANCES AND DEVICES SHALL TERMINATE THROUGH AN AIR GAP.

506.3 Water service piping. Water service piping shall be protected in accordance with the IPC Sections 603.2 and 603.2.1.

506.4 Chemicals and other substances. Chemicals and other substances that produce either toxic conditions, taste, odor or discoloration in a potable water system shall not be introduced into, or used in, such systems.

506.5 Valves and outlets prohibited below grade. Potable water outlets and combination stop and waste arrangements shall not be installed below grade. Freezeproof yard hydrants that drain the riser into the ground are considered a stop and waste arrangement.

506.5.1 Exception. Freezeproof yard hydrants that drain the riser into the ground shall be permitted to be installed, provided that the potable water supply to such hydrants is protected upstream of the hydrants in accordance with Table 5.2 and the hydrants are permanently identified as non-potable water outlets by approved signage that reads as follows: "Caution, Non-Potable Water. Do Not Drink."

506.6 Auxiliary water systems. An approved backflow prevention assembly shall be installed at the service connection to any premises where there is an auxiliary water supply or system as follows:

506.6.1 Connections to potable water systems. For connections to potable water systems, an air gap separation or a RPBA (ASSE 1013) backflow prevention assembly shall be installed at the interconnection when the auxiliary water supply is or may be contaminated to a degree that it would constitute a high degree of hazard. A DCVA (ASSE 1015) shall be installed at the interconnection when the auxiliary water supply is verified as municipal grade potable water treatment under a Maryland Department of the Environment permit.

506.6.2 Private water supplies and secondary sources of water. For private water supplies and secondary sources of water, an air gap separation or a RPBA (ASSE 1013) backflow prevention assembly shall be installed at the interconnection.

506.6.3 Used waters and industrial fluids. For used waters and industrial fluids, an air gap separation or a RPBA (ASSE 1013) shall be installed where there is a high degree of hazard.

506.7 Fire hydrant meters and backflow preventers for temporary or seasonal use.

506.7.1 General. The Commission may authorize use of a fire hydrant meter to applicants requiring water for temporary use as follows:

506.7.1.1 Small fire hydrant meter. A Commission small fire hydrant meter (3/4-inch) shall include an integral HCVB (ASSE 1011) non-testable backflow prevention device.

506.7.1.2 Large fire hydrant meter. For a Commission large fire hydrant meter (3 inch), the applicant shall provide a RPBA (ASSE 1013) testable backflow prevention assembly. The testable backflow prevention assembly must carry a satisfactory testable backflow prevention assembly test tag current within six months. The testable backflow prevention assembly shall be located within 20 feet (6,096 mm) of the fire hydrant meter, ahead of any water take-offs, and the inlet piping or hose shall not be concealed.

[506.7.2 Fire hydrant use restrictions. Fire hydrant use shall be restricted to temporary or seasonal applications **[**such as, but not limited to tank truck filling, temporary water for construction sites, events (e.g., charity walks, fairgrounds), and seasonal uses (e.g., irrigation). Fire hydrants shall not be used to circumvent the need to obtain service connections to supply water to full-time businesses, nurseries with retail and maintenance buildings, and similar applications. Such applications shall require a permanent service connection.**]**

506.8 Parallel systems. In commercial applications where a fire sprinkler system is specified, multiple water systems may be established in parallel as follows:

506.8.1 Fire sprinkler systems. Fire sprinkler systems shall be the first supply branch. This branch may be ahead of an inside domestic meter and shall have a backflow preventer commensurate with degree of hazard.

506.8.2 Irrigation. Irrigation branch shall be downstream of an inside meter. This branch shall be ahead of pressure reducing station, if applicable, and shall have a backflow preventer commensurate with degree of hazard.

506.8.3 Domestic. Domestic branch shall be downstream of an inside meter and shall have a containment backflow preventer commensurate with degree of hazard.

506.8.4 Non-potable water system. Non-potable water system branch shall be downstream of an inside meter, and shall have an RPBA (ASSE 1013) containment backflow preventer.

506.9 Automatic fire sprinkler systems.

506.9.1 Automatic residential fire sprinkler systems. On residential buildings equipped with an NFPA 13D or 13R residential fire sprinkler system **AND WITH AN INSIDE METER**, the tee feeding the residential fire sprinkler system shall be located **[**on the outlet side of**]BEFORE** the meter. Potable water systems shall be protected against backflow from automatic fire sprinkler systems by a minimum of a dual check backflow preventer (ASSE 1024). Chemical additives shall be prohibited in residential fire sprinkler systems. No valve shall be installed on the tee branch supplying the fire sprinkler system.

506.9.2 Automatic commercial fire sprinkler systems. Where potable water is used to serve or supplement a fire sprinkler system, backflow preventer shall be as follows:

506.9.2.1 No chemical additives. DCVA (ASSE 1015).

506.9.2.2 With chemical additives. RPBA (ASSE 1013).

506.9.2.3 Limited system. Limited system up to 7 heads; no chemicals or pump, dual check backflow preventer (ASSE 1024).

506.9.3 Exceptions to 506.9.1 and 506.9.2. The following are exceptions to Sections 506.9.1 and 506.9.2:

506.9.3.1 As portion of water distribution system. Where fire sprinkler systems are installed as a portion of the water distribution system in accordance with the requirements of this Code and the IPC and are not provided with a fire department connection, isolation or the water supply system shall not be required if fire sprinkler system branch piping is less than 2 feet (609 mm) in length.

506.9.3.2 Isolation not required. Isolation of the water distribution system is not required for deluge, preaction or dry pipe systems.

506.10 Retrofits and existing commercial fire sprinkler systems. Existing commercial fire sprinkler systems shall be required to update or upgrade the backflow prevention as follows:

506.10.1 Ten head rule. Where more than ten sprinkler heads are added or relocated in conjunction with interior building renovations, a testable backflow prevention assembly corresponding to Section 506.9.2 shall be installed.

506.10.2 Single check valves. Older systems (untouched or retrofitting up to ten heads), using a single check valve for backflow prevention are not required to upgrade to a testable backflow prevention assembly provided all of the following conditions are met:

506.10.2.1 No chemical additives. No chemical additives are present or have ever been utilized.

506.10.2.2 Single check valves. Single check valves shall be replaced or rebuilt every five years. Replaced or rebuilt check valves shall be tagged, including the installation date or the expiration date; and the following statement: “For optimal performance and safety, WSSC Code requires that this device shall **BE** replaced or rebuilt every 5 years.”

506.10.2.3 Install Assembly. Where possible, a testable backflow prevention assembly per Section 506.9.2 shall be installed.

506.10.3 Unprotected systems. Unprotected systems shall be required to have a testable backflow prevention assembly installed per Section 506.9.2.

506.10.4 Hydraulic consideration. Where backflow prevention is added or upgraded, the owner or applicant, their design team, or their installing contractor shall be required to coordinate, permit, or coordinate and permit these changes with the appropriate county or local fire officials in order to ensure the changes meet hydraulic and flow requirements of the fire department. Proof of coordination and permit shall be required.

506.11 HOSE CONNECTIONS. THE PROVISIONS OF THIS SECTION SHALL GOVERN THE REQUIRED BACKFLOW PREVENTION METHODS AND LABELING REQUIRED FOR HOSE CONNECTIONS.

506.11.1 SELECTION OF BACKFLOW PREVENTER. SILL COCKS, HOSE BIBBS, WALL HYDRANTS AND OTHER OPENINGS WITH A HOSE CONNECTION SHALL BE PROTECTED BY AN ATMOSPHERIC-TYPE OR PRESSURE-TYPE VACUUM BREAKER, A PERMANENTLY ATTACHED HOSE CONNECTION VACUUM BREAKER, OR AS APPROVED. SEE TABLE 5.2 FOR SELECTION OF BACKFLOW PREVENTERS.

EXCEPTIONS:

1. **THIS SECTION DOES NOT APPLY TO WATER HEATER AND BOILER DRAIN VALVES THAT ARE PROVIDED WITH HOSE CONNECTION THREADS AND THAT ARE INTENDED ONLY FOR TANK OR VESSEL DRAINING.**
2. **THIS SECTION DOES NOT APPLY TO WATER SUPPLY VALVES INTENDED FOR CONNECTION OF RESIDENTIAL-TYPE CLOTHES WASHING MACHINES OR RESIDENTIAL-TYPE STEAM DRYERS WHERE BACKFLOW PREVENTION IS OTHERWISE PROVIDED OR IS INTEGRAL WITH THE MACHINE.**

506.11.2 HIGH HAZARD AREAS. IN ADDITION TO THE REQUIREMENTS OF SECTION 506.11.1, HOSE CONNECTIONS LOCATED IN A HIGH HAZARD AREAS SHALL HAVE AN RPBA (ASSE 1013) INSTALLED ON THE SUPPLY LINE. A SINGLE RPBA MAY SERVE A SUPPLY LINE THAT SUPPLIES WATER TO MULTIPLE HOSE CONNECTIONS AND OTHER LABELED NONPOTABLE USES. NO POTABLE USES MAY BE CONNECTED DOWNSTREAM OF RPBA.

506.11.2.1 LABELING. ALL HOSE CONNECTIONS AND ANY OTHER WATER OUTLET DOWNSTREAM OF RBPA (ASSE 1013) SHALL BE LABELED AS FOLLOWS: "CAUTION: NONPOTABLE WATER - DO NOT DRINK"

506.11.3 LOW HAZARD AREAS WITH DRAIN PORTS. IN ADDITION TO THE REQUIREMENTS OF SECTION 506.11.1, IN LOW HAZARD AREAS, HOSE CONNECTIONS THAT DRAIN THE RISER INTO THE GROUND SHALL HAVE A DUAL CHECK VALVE (ASSE 1024) INSTALLED ON THE SUPPLY LINE. A SINGLE DUAL CHECK VALVE MAY SERVE A SUPPLY LINE THAT SUPPLIES WATER TO MULTIPLE HOSE CONNECTIONS.

506.11.3.1 LABELING. IN LOW HAZARD AREAS, HOSE CONNECTIONS WITH UNDERGROUND DRAIN PORTS SHALL BE LABELED AS FOLLOWS: "CAUTION: NONPOTABLE WATER – DO NOT DRINK"

506.11.4 LABELING LOW HAZARD AREAS FOR POTABLE WATER USE. IN LOW HAZARD AREAS, HOSE CONNECTIONS THAT MEET THE LOW LEAD REQUIREMENTS OF THIS CODE AND DO NOT HAVE UNDERGROUND DRAIN PORTS MAY BE LABELED AS FOLLOWS: "POTABLE WATER FOR DRINKING, BATHROOM, & CULINARY USE ONLY." SEE SECTIONS 302.4.4 AND 302.6.7 FOR LOW LEAD REQUIREMENTS. LABELING IS REQUIRED EVEN WHEN HOSE CONNECTION IS FOR A DEDICATED OR PERMANENT END USE.

SECTION 507 INSTALLATION OF BACKFLOW PREVENTERS

507.1 Installation dimensions. Installation dimensions shall conform to Table 5.2. DCDA (ASSE 1048) and RPDA (ASSE 1047) shall be installed in accordance with the Commission's standard details for construction.

507.2 Accessibility.

507.2.1 General. Except those approved for seasonal removal or replacement, backflow preventers shall have access for maintenance, replacement and testing. **[**Backflow preventers shall not be installed where platforms, ladders or lifts are required for access. Backflow preventers shall be installed inside buildings in an area capable of maintaining a minimum temperature of 50°F (20°C).**]**

507.2.2 HEIGHT OF ABOVE GRADE BACKFLOW PREVENTERS. THE MAXIMUM HEIGHT FOR A BACKFLOW PREVENTER SHALL BE 5 FEET (1,524 MM) ABOVE FINISHED FLOOR OR GRADE. THE HEIGHT OF NON-TESTABLE BACKFLOW PREVENTION DEVICES SHALL BE MEASURED FROM THE HIGHEST PART OF THE DEVICE. THE HEIGHT OF HORIZONTALLY INSTALLED TESTABLE BACKFLOW PREVENTION ASSEMBLIES SHALL BE MEASURED FROM THE CENTERLINE OF THE ASSEMBLY. THE HEIGHT OF VERTICALLY INSTALLED TESTABLE BACKFLOW PREVENTION ASSEMBLIES SHALL BE MEASURED FROM THE STEM OF THE OUTLET VALVE.

[507.2.2 Backflow preventers above grade**.** If a new backflow preventer must be installed higher than 5 feet (1,524 mm) above finished floor or grade, the building owner shall install an OSHA approved permanent platform at the backflow preventer to provide access for workers. For existing backflow preventers installed higher than 5 feet (1,524 mm) above finished floor or grade, the building owner shall provide an OSHA approved platform or scaffold for maintenance and testing; or the owner shall contract a WSSC-Licensed Master Plumber to relocate the assembly to an approvable location.**]**

If a new backflow preventer must be installed higher than 5 feet (1,524 mm) above finished floor or grade, the building owner shall install an OSHA approved permanent platform at the backflow preventer to provide access for workers**, CODE OFFICIALS, AND CROSS-CONNECTION TECHNICIANS**. For existing backflow preventers installed higher than 5 feet (1,524 mm) above finished floor or grade, the building owner shall provide an OSHA approved platform or scaffold for maintenance and testing; or the owner shall contract a WSSC-Licensed Master Plumber to relocate the assembly to an approvable location.

507.2.3 CLEARANCE REQUIREMENTS. A MINIMUM OF 30 INCHES (762 MM) OF UNOBSTRUCTED SPACE SHALL BE PROVIDED IN FRONT OF BACKFLOW PREVENTION ASSEMBLIES OR DEVICES FOR MAINTENANCE AND TESTING. A MINIMUM OF 12 INCHES (304 MM) OF UNOBSTRUCTED SPACE SHALL ALSO BE PROVIDED BEHIND 3-INCH (76 MM) AND LARGER BACKFLOW TESTABLE PREVENTION ASSEMBLIES OR DEVICES. A MINIMUM OF 6 INCHES (152 MM) OF UNOBSTRUCTED SPACE SHALL BE PROVIDED BEHIND 2 INCH (50 MM) AND SMALLER ASSEMBLIES OR DEVICES. A MINIMUM OF 6 FEET (1,828 MM) OF HEADROOM SHALL BE PROVIDED. PROVIDED IT IS WITHIN 12 INCHES (304 MM) OF THE OPENING AND POSITIONED IN A SERVICEABLE MANNER, AN ASSEMBLY OR DEVICE MAY BE INSTALLED IN AN ALCOVE OR UNDER A COUNTER.

507.3 [Designated area.]GENERAL

507.3.1 [General]LOCATION. [Backflow**]CONTAINMENT BACKFLOW** preventers **AND TESTABLE ASSEMBLIES** shall be installed in an **[**area exclusively reserved for such assemblies or devices**]APPROVED LOCATION**. Related appurtenances including valves, water meters, and fire pumps and sprinkler standpipes shall be permitted to share the same area, provided respective **[**dimensional**]ACCESSIBILITY AND CLEARANCE** requirements can be maintained. **[**Adequately sized floor drains are recommended for assemblies and devices with relief opening installed inside buildings. The relief port opening shall be installed with a manufacturer's air gap fitting and piped to a floor drain or receptor.**]**

507.3.2 RELIEF PORT PIPING. THE TERMINATION OF THE PIPING FROM THE RELIEF PORT OR AIR GAP FITTING OF A BACKFLOW PREVENTER SHALL DISCHARGE TO AN APPROVED INDIRECT WASTE RECEPTOR OR TO THE OUTDOORS WHERE IT WILL NOT CAUSE DAMAGE OR CREATE A NUISANCE. THE INDIRECT WASTE RECEPTOR AND DRAINAGE PIPING SHALL BE SIZED TO DRAIN THE MAXIMUM DISCHARGE FLOW RATE FROM THE RELIEF PORT AS PUBLISHED BY THE BACKFLOW PREVENTER MANUFACTURER. THE RELIEF PORT OPENING SHALL BE INSTALLED WITH A MANUFACTURER'S AIR GAP FITTING AND PIPED TO A FLOOR DRAIN OR RECEPTOR.

[507.3.1.1]507.3.2.1 [Alternate]AUTOMATIC FAIL SAFE SYSTEM. Where the drainage system is inadequate, impractical, or where the assembly cannot otherwise be located to accommodate the catastrophic discharge of the RPBA (ASSE 1013) testable backflow prevention assembly, an automatic fail safe system, capable of sensing the failure and activating a system shut down, is **[**recommended**]ALLOWED**. **[**Such a**]WITH THE EXCEPTION OF WHEN REDUDANCY IS PROVIDED BY MULTIPLE WATER SOURCES OR BACKFLOW PREVENTERS, AN AUTOMATIC FAIL SAFE** system is prohibited on critical water supplies **[**that may include**]INCLUDING** fire sprinkler systems and health care facilities **[**unless a redundancy is in place**]**.

[507.3.2 Space requirements. A minimum of 30 inches (762 mm) of unobstructed space shall be provided in front of backflow prevention assemblies or devices for maintenance and testing. A minimum of 12 inches (304 mm) of unobstructed space shall also be provided behind 3-inch (76 mm) and larger backflow testable prevention assemblies or devices. A minimum of 6 inches (152 mm) of unobstructed space shall be provided behind 2 inch (50 mm) and smaller assemblies or devices. A minimum of 6 feet (1,828 mm) of headroom shall be provided. An assembly or device may be installed in an alcove or under a counter provided it is within 12 inches (304 mm) of the opening and positioned in a serviceable manner.**]**

[507.4 Identification of non-potable water. In buildings where non-potable water systems are installed, the piping conveying the non-potable water shall be identified either by color marking or metal tags in accordance with Sections 507.4.1 through 507.4.3. All non-potable water outlets such as hose connections, open ended pipes, and faucets shall be identified at the point of use for each outlet with the words, "Non-potable - not safe for drinking." The words shall be indelibly printed on a tag or sign constructed of corrosion-resistant waterproof material or shall be indelibly printed on the fixture. The letters of the words shall be not less than 0.5 inches (12 mm) in height and color in contrast to the background on which they are applied.

507.4.1 Information. Pipe identification shall include the contents of the piping system and an arrow indication the direction of flow. Hazardous piping systems shall also contain information addressing the nature of the hazard. Pipe identification shall be repeated at maximum intervals of 25 feet (7,620 mm) and at each point where the piping passes through a wall, floor or roof. Lettering shall be readily observable with the room or space where the piping is located.

507.4.2 Color. The color of the pipe identification shall be discernible and consistent throughout the building. The color purple shall be used to identify reclaimed, rain and gray water distribution systems.

507.4.3 Size. The size of the background color field and lettering shall comply with Table 5.3.**]**

507.4 IDENTIFICATION OF NONPOTABLE WATER SYSTEMS. WHERE NONPOTABLE WATER SYSTEMS ARE INSTALLED, THE PIPING CONVEYING THE NONPOTABLE WATER SHALL BE IDENTIFIED EITHER BY COLOR MARKING, METAL TAGS OR TAPE IN ACCORDANCE WITH SECTIONS 507.4.1 THROUGH 507.4.2.3.

507.4.1 SIGNAGE REQUIRED. NONPOTABLE WATER OUTLETS, SUCH AS HOSE CONNECTIONS, OPEN-ENDED PIPES AND FAUCETS, SHALL BE IDENTIFIED WITH SIGNAGE THAT READS AS FOLLOWS: "NONPOTABLE WATER IS UTILIZED FOR [APPLICATION NAME]. CAUTION: NONPOTABLE WATER – DO NOT DRINK." THE WORDS SHALL BE LEGIBLY AND INDELIBLY PRINTED ON A TAG OR SIGN CONSTRUCTED OF CORROSION-RESISTANT WATERPROOF MATERIAL OR SHALL BE INDELIBLY PRINTED ON THE FIXTURE. THE LETTERS OF THE WORDS SHALL BE NOT LESS THAN 0.5 INCH (12.7 MM) IN HEIGHT AND IN COLORS IN CONTRAST TO THE BACKGROUND ON WHICH THEY ARE APPLIED. IN ADDITION TO THE REQUIRED WORD-AGE, THE PICTOGRAPH SHOWN IN FIGURE xxx SHALL APPEAR ON THE REQUIRED SIGNAGE.

PICTOGRAPH—DO NOT DRINK

507.4.2 DISTRIBUTION PIPE LABELING AND MARKING. NON-POTABLE DISTRIBUTION PIPING SHALL BE PURPLE IN COLOR AND SHALL BE EMBOSSED, OR INTEGRALLY STAMPED OR MARKED, WITH THE WORDS: “CAUTION: NONPOTABLE WATER – DO NOT DRINK” OR THE PIPING SHALL BE INSTALLED WITH A PURPLE IDENTIFICATION TAPE OR WRAP. PIPE IDENTIFICATION SHALL INCLUDE THE CONTENTS OF THE PIPING SYSTEM AND AN ARROW INDICATING THE DIRECTION OF FLOW. HAZARDOUS PIPING SYSTEMS SHALL ALSO CONTAIN INFORMATION ADDRESSING THE NATURE OF THE HAZARD. PIPE IDENTIFICATION SHALL BE REPEATED AT INTERVALS NOT EXCEEDING 25 FEET (7620 MM) AND AT EACH POINT WHERE THE PIPING PASSES THROUGH A WALL, FLOOR OR ROOF. LETTERING SHALL BE READILY OBSERVABLE WITHIN THE ROOM OR SPACE WHERE THE PIPING IS LOCATED.

507.4.2.1 COLOR. THE COLOR OF THE PIPE IDENTIFICATION SHALL BE DISCERNABLE AND CONSISTENT THROUGHOUT THE BUILDING. THE COLOR PURPLE SHALL BE USED TO IDENTIFY RECLAIMED, RAIN AND GRAYWATER DISTRIBUTION SYSTEMS.

507.4.2.2 LETTERING SIZE. THE SIZE OF THE BACKGROUND COLOR FIELD AND LETTERING SHALL COMPLY WITH TABLE 5.3.

507.4.2.3 IDENTIFICATION TAPE. WHERE USED, IDENTIFICATION TAPE SHALL BE NOT LESS THAN 3 INCHES (76 MM) WIDE AND HAVE WHITE OR BLACK LETTERING ON A PURPLE FIELD STATING “CAUTION: NONPOTABLE WATER –

DO NOT DRINK." IDENTIFICATION TAPE SHALL BE INSTALLED ON TOP OF NONPOTABLE RAINWATER DISTRIBUTION PIPES, FASTENED NOT LESS THAN EVERY 10 FEET (3048 MM) TO EACH PIPE LENGTH AND RUN CONTINUOUSLY THE ENTIRE LENGTH OF THE PIPE.

TABLE 5.3 - SIZE OF PIPE IDENTIFICATION

Pipe Diameter (inches)	Length of Background Color Field (inches)	Size of Letters (inches)
3/4 to 1-1/4	8	0.5
1-1/2 to 2	8	0.75
2-1/2 to 6	12	1.25
8 to 10	24	2.5
Over 10	32	3.5

507.5 Valves.

507.5.1 Shutoff valves. Shutoff valves shall be required on the inlet and outlet of RPBAs (ASSE 1013), RPDAs (ASSE 1047), DCVAs (ASSE 1015), DCDAs (ASSE 1048), PVBAs (ASSE 1020) and SVBAs (ASSE 1056). Valves shall be factory affixed directly to the backflow prevention assembly body. A dedicated shutoff valve shall be installed on the inlet side of AVBS (ASSE 1001) to allow for periodic maintenance and intermittent operation of the device.

507.5.2 Requirements for ASSE 1013 and 1047 assemblies. Unless approved by the manufacturer, an RPBA (ASSE 1013) and an RPDA (ASSE 1047) shall not be installed in a vertical position.

507.5.3 Fire sprinkler systems. Backflow prevention assemblies for fire sprinkler systems shall be installed with UL listed and FM approved rated valves or with rising stem gate valves. Valves shall be indicator type and strainers shall not be installed on fire sprinkler systems.

507.5.4 Full-flow characteristic valves. Full-flow characteristic valves, either ball type or resilient seated gate type, shall be installed on all backflow prevention assemblies.

507.6 Other installation requirements.

507.6.1 Bypass arrangements. Bypass arrangements shall be permitted around backflow preventers provided equivalent protection is installed on the bypass line.

507.6.2 Permanent piping. Piping to the inlet side of a testable backflow prevention assembly shall be permanent piping and shall not contain a means to later circumvent the required backflow prevention assembly. Unions may only be used on outdoor assemblies, to facilitate winterization.

507.6.3 Relief port piping. With the exception of Section 507.6.3.1, the termination of the piping from the relief port or air gap fitting of a backflow preventer shall be discharged to an approved indirect waste receptor or to the outdoors where it will not cause damage or create a nuisance. Relief port piping shall not be reduced in size. Connection to relief port piping shall be made directly to an air gap basket approved by the assembly manufacturer. The relief port piping shall drain indirectly to approved waste receptor. Relief port piping shall not be manifolded with other drain piping.

507.6.3.1 Relief port shutoff system. Relief port piping shall not be reduced in size, unless provided with an approved engineered or manufactured means of flood protection, such as automatic shut-off and alarm.

507.6.4 [Backflow preventers installed outside.]FREEZE PROTECTION. [Unless approved by the Commission, backflow preventers shall be installed inside the building. When installed outside of a building, the building owner shall provide an above grade protective enclosure for the backflow preventers which shall be heated to prevent freezing and properly secured to prevent damage backflow preventer. Outdoor enclosures for backflow preventers shall comply with ASSE 1060, performance requirements for outdoor enclosures for fluid conveying components. Heat shall not be required if the backflow preventer is removed during the winter months. PVBAs and SVBAs may be winterized in place.**]EXCEPT**

WHERE APPROVED FOR SEASONAL REMOVAL, BACKFLOW PREVENTERS SHALL NOT BE LOCATED IN AREAS SUBJECT TO FREEZING.

507.6.4.1 BACKFLOW PREVENTERS INSTALLED INSIDE. EXCEPT AS APPROVED, BACKFLOW PREVENTERS SHALL BE INSTALLED INSIDE OF BUILDINGS AND LOCATED IN AN AREA CAPABLE OF MAINTAINING A MINIMUM TEMPERATURE OF 50°F (10°C), AS FOLLOWS:

507.6.4.1.1 CRITICAL DATES. THE ROOM OR AREA SHALL BE HEATED FROM NOVEMBER 1 THROUGH MARCH 31.

507.6.4.1.2 INSULATION. A METER ROOM OR AREA WITH OUTDOOR EXPOSURE SHALL BE THERMALLY PROTECTED IN ACCORDANCE WITH INTERNATIONAL BUILDING CODE REQUIREMENTS. AREAS WITH NO DIRECT EXPOSURE TO THE OUTDOORS SHALL NOT REQUIRE EXTRA THERMAL PROTECTION.

507.6.4.1.3 HEAT SOURCE. WHERE A HEAT SOURCE IS REQUIRED, IT SHALL BE PERMANENTLY INSTALLED AND THERMOSTATICALLY CONTROLLED WITHIN THE AREA. AS AN ALTERNATIVE, WITH PRIOR APPROVAL BY THE CODE OFFICIAL, HEAT MAY BE PROVIDED INDIRECTLY.

507.6.4.2 OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION DEVICES. OUTDOOR ENCLOSURES FOR BACKFLOW PREVENTION DEVICES SHALL BE APPROVED BY THE CODE OFFICIAL AND COMPLY WITH ASSE 1060.

507.6.4.3 [507.6.4.1 Unions required.]SEASONAL REMOVAL. [Assemblies**] BACKFLOW PREVENTERS MAY BE INSTALLED IN AREAS SUBJECT TO FREEZING IF THEY ARE PROTECTED FROM FREEZING BY SEASONAL REMOVAL. BACKFLOW** PREVENTERS for seasonal **[**application**]REMOVAL** shall be installed with unions. **REMOVED BACKFLOW PREVENTER SHALL BE SAFELY STORED IN A CONDITIONED SPACE.**

Exception: Unions shall not be required if **[**assembly**]BACKFLOW PREVENTER** is designed to allow the working components between the shutoff valves to be removed. The removed components shall be safely stored in a conditioned space.

507.6.5 Prohibited locations. Backflow preventers designed to vent to atmosphere and potable system drainage valves (such as stop and waste or boiler drain type), shall not be installed in pits, vaults or similar submerged areas and shall not be installed in chemical or fume hoods. Backflow preventers shall **[**also**]** be protected from freezing. Backflow preventers shall be installed outside of hazardous environment areas.

507.6.6 Common service. For new construction wherein a common service splits into separate fire and domestic lines inside the property, backflow preventers shall be located after the split with no backflow preventer required on the common service.

507.6.7 Pumps and other appliances. Water pumps, filters, softeners, tanks and all other devices that handle or treat potable water shall be protected against contamination.

507.6.8 Booster pumps. Booster pumps for fire sprinkler systems, domestic water, or local system or equipment enhancement shall be installed on the downstream side of the respective backflow preventers.

507.6.9 Reutilization prohibited. Water used for the cooling of equipment or other processes shall not be returned to the potable water system. Such water shall be discharged into a drainage system through an air gap or shall be used for non-potable purposes.

507.6.10 Reuse of piping. Piping that has been used for any purpose other than conveying potable water shall not be used for conveying potable water.

507.6.11 [Painting of water tanks.]POTABLE WATER TANKS. [The interior surface of a potable water tank shall not be lined, painted, or repaired with any material that changes the taste, odor, color or potability of the water supply when the tank is placed in, or returned to, service.**]WHERE IN CONTACT WITH POTABLE WATER INTENDED FOR DRINKING WATER, WATER TANKS, COATINGS FOR THE INSIDE OF TANKS AND LINERS FOR WATER TANKS SHALL CONFORM TO NSF 61. THE INTERIOR SURFACE OF A POTABLE WATER TANK SHALL NOT BE LINED, PAINTED OR REPAIRED WITH ANY MATERIAL THAT CHANGES THE TASTE, ODOR, COLOR OR POTABILITY OF THE WATER SUPPLY WHEN THE TANK IS PLACED IN, OR RETURNED TO, SERVICE.**

507.6.12 Temperature label. Testable backflow prevention assemblies with water supply temperatures that exceed the maximum water temperature as listed in IPC Section 501.1.2.3 (as modified by this Code) shall be labeled “Caution: Hot Water” with size of pipe identification as per IPC Section 608.9.2.2.

SECTION 508 TESTING AND MAINTENANCE OF BACKFLOW PREVENTERS

508.1 Replacement intervals for non-testable backflow prevention devices. Customers shall have non-testable backflow prevention devices rebuilt or replaced every five years.

508.2 Testing intervals for testable backflow prevention assemblies. Customers shall have testable backflow prevention assemblies tested as follows:

- **a.** On installation
- **b.** At least annually
- **c.** After repairs
- **d.** After relocation or replacement
- **e.** On responding to a reported backflow incident
- **f.** Before any reactivation or seasonal start-up of a dormant water use, including: irrigation systems, swimming pools, pool houses, decorative fountains, summer homes, etc.

508.3 Permits.

508.3.1 Maintenance, testing, and tagging of backflow preventers.

508.3.1.1 Testable assemblies. Rebuilding and testing of testable backflow prevention assemblies shall be exempt from a permit requirement but shall only be performed by a Cross-Connection Technician.

508.3.1.1.1 Field test and tag. Field tests shall be performed by a Cross-Connection Technician. Testable backflow prevention assemblies shall have an attached testable backflow prevention assembly test tag with the following information: the permit number (if applicable), the test date, the name and registration number of principal Master Plumber, the name and registration number of tester, the building address, the test report number, the backflow preventer serial number, and the differential pressure that the relief valve opened.

508.3.1.2 Non-testable backflow prevention devices. Replacing or rebuilding non-testable backflow prevention devices shall be exempt from a permit requirement and may be performed by the homeowner (residential only), a WSSC-Licensed Master Plumber or a WSSC-Licensed Journeymen Plumber. A notification tag shall be attached to device or hung nearby.

508.3.1.2.1 Tag. Dual check valve with atmospheric vent (ASSE 1012), backflow preventers for carbonated beverage machine (ASSE 1022), dual check backflow preventers (ASSE 1024), and backflow preventer with intermediate atmospheric vent and pressure reducing valve (ASSE 1081) shall have an attached notification tag with the following information: installation date, replace or rebuild by date, and the words: “For optimal performance and safety this device is required by WSSC Code to be replaced or rebuilt every 5 years.”

508.3.2 Long Form Permit. A Long Form Permit shall be required for a new installation, or to relocate an existing, testable backflow prevention assembly or a non-testable backflow prevention device, residential or non-residential occupancies.

508.3.3 Short Form Permit. A Short Form Permit may be used for the direct replacement of testable backflow prevention assemblies provided the existing location and application are consistent with the provisions of this Code and the manufacturer’s installation instructions.

508.3.4 Special exception, federal facilities. Permitting and inspection requirements for federal facilities shall be as provided in applicable law or pursuant to agreement with the appropriate federal agency or both. Such facilities may be required to install an outside water meter setting, and to contain the property with backflow prevention, in close proximity to the meter. This installation shall be above ground and must be protected from freezing.

508.4 Field test procedures and equipment.

508.4.1 Field-test procedures. The testing procedure for testable backflow prevention assemblies shall be performed in accordance with one of the following standards: ASSE 5013, ASSE 5015, ASSE 5020, ASSE 5047, ASSE 5048, ASSE 5056, CAN/CSA B64.10.

508.4.2 Field-test equipment. To ensure the ability of the test equipment to provide accurate data, the field test equipment shall be checked for accuracy annually and calibrated if so required. The calibration date shall be entered on the backflow preventer test report and there shall be a dated calibration sticker affixed to the test equipment. Only test equipment designed, constructed, and approved by the manufacturer for testing backflow prevention assemblies and approved by the Code Official shall be accepted for Commission reporting requirements.

508.5 Test reports.

508.5.1 General. Testing of testable backflow prevention assemblies requires the submission of a completed Commission backflow prevention assembly test report showing a passing test result.

508.5.2 Failed tests. In the event of a failed test, the cross-connection technician shall repair, rebuild or replace the testable backflow prevention assembly until a passing test result is obtained. If the property owner does not authorize repairs, the Cross-Connection Technician shall notify the Commission. Submission of a failed field test report is not considered notification.

508.5.4 License number. [Cross-Connection Technicians shall be required to provide their license number on all test reports. Submission of a test report online will not be possible without providing a license number. Cross-connection technicians must also provide the license number of the WSSC-Licensed Master Plumber.**]THE LICENSE NUMBER OF CROSS-CONNECTION TECHNICIAN THAT PERFORMS FIELD TEST SHALL BE ENTERED INTO CROSS-CONNECTION TEST REPORT SYSTEM.**

CHAPTER 6 COMMISSION WATER METERS

SECTION 601 GENERAL

601.1 Scope. This chapter shall outline all details relating to the installation of Commission water meters. Work normally installed by plumbers that relate to Commission meters, and as outlined in this chapter, shall be Code requirements, and shall be enforced in conjunction with requirements specified in related sections of this Code. In unusual circumstances, the Commission retains the right to deviate from these provisions. See Chapter 1, "Administration", Section [112]109, "Connection to the Commission's Systems and Metering", for administrative provisions relating to water service connections and Commission water meters.

601.2 General Requirements.

601.2.1 Standard details. Commission water meters shall be installed in accordance with THE COMMISSION'S Standard Details.

601.2.2 Jumpers prohibited. The installation of a straight pipe or jumper in lieu of a water meter shall be prohibited.

601.2.3 Accessibility. Water meters shall be readily accessible for maintenance, replacement, and reading.

SECTION 602 WATER METER SELECTION

602.1 Application. The size and type of Commission water meters, both for new and design retrofit applications, shall be based on application and plumbing hydraulic load in accordance with Table 602.1. Emerging water meter technology not included in Table 602.1 shall be approved by the Commission before installation or implementation.

602.2 Location. The Commission shall determine the location, outside or inside of buildings, for all Commission water meters. See Section [112.5]109.5.

602.2.1 Group R-3 occupancy – outside meter required. For all service connections in Group R-3 occupancies, new or replacement, the following parameters shall determine where outside Commission meters are required:

- **a.** Where the on-property water service is 300 feet (91 m) or greater in length.
- **b.** In neighborhoods where a majority of the homes are served by outside meters and the water service connection is replaced or upgraded; and in similar neighborhoods for service to infill lots or previously demolished homes.
- **c.** When not meeting any condition above, but at the request of the property owner.

602.3 Size. Regardless of water service connection size, building water service size, or building piping size, the minimum size water meter required to meet plumbing hydraulic demand and minimum pressure requirements for proper operation of domestic plumbing fixtures and appliances shall be installed. Plumbing hydraulic demand shall be estimated utilizing design criteria from IPC Section 604 and Appendix E; and IRC Section 2903.

602.4 Commission submeters. Commission submeters shall meet the following requirements: except as otherwise allowed by law, water passing through a Commission submeter shall not discharge into the sanitary sewage system.

- **a.** A Commission submeter shall be installed on the outlet side of the master meter.
- **b.** Where required, a Commission submeter remote reader wire shall be installed, and shall be tagged on both the outside and inside cable ends.
- **c.** The backflow preventer shall be installed on the outlet side of the Commission submeter.
- **d.** A Commission submeter shall not be connected to any portion of a fire sprinkler system.

TABLE 602.1 WATER METER APPLICATION CHART

WSSC METER APPLICATION CHART
(90% Maximum Flow Rate)

All Flow Characteristics[1,2,8]

27 gpm =	3/4-inch PD[3,4]	145 gpm =	2-inch PD
45 gpm =	1-inch PD[4]	288 gpm =	3-inch CMP
90 gpm =	1 1/2-inch PD		

Variable Flow[5,6,8]

450 gpm =	4" CMP
900 gpm =	6" CMP
1440 gpm =	8" CMP

Constant Flow[2,6,7,8]

		315 gpm =	3" TRB II
540 gpm =	4" TRB I	567 gpm =	4" TRB II
1125 gpm =	6" TRB I	1260 gpm =	6" TRB II
1620 gpm =	8" TRB I	2160 gpm =	8" TRB II
2610 gpm =	10" TRB I	3420 gpm =	10" TRB II
3870 gpm =	12" TRB I	4500 gpm =	12" TRB II

Abbreviations: PD = Positive Displacement; CMP = Compound; TRB = Turbine (Class I and II)

1. All meters, size 3/4-inch through 2-inch shall be Positive Displacement (PD) type.
2. Where large irrigation or similar demands will drive the size of an outside meter past the acceptable range of domestic flow needs, a separate water-only meter shall be installed parallel to the main meter as a double setting.
3. Minimum inside or outside meter size other than replacements, shall be 3/4-inch; for Group R-3 occupancies the minimum shall be 1-inch.
4. Group R-3 occupancies with 6 or more water closets shall have a 3/4-inch or 1-inch meter based on plumbing hydraulic demand. Maximum meter size in Group R-3 occupancies shall be 1-inch.
5. Buildings/complexes with variable flow and less than 3,000 WSFUs shall be metered with a Compound Meter (CMP).
6. For metered fire or metered combination fire/domestic service:
   a. Size primary meter to match the Combined Flow Demand provided by applicant, typically shown on the Hydraulic Information Sheet (HIS).
   b. Size secondary meter (bypass) on domestic hydraulic demand only.
7. Constant flow applications and those exceeding 3,000 WSFUs shall be metered with a Turbine Meter (TRB).
8. A larger meter shall be considered only on a case-by-case basis.

SECTION 603 SUPPLY SHUTOFF VALVES

603.1 SUPPLY SHUTOFF VALVES. THE REQUIREMENTS FOR SUPPLY SHUTOFF VALVES AFTER THE WATER SERVICE ENTERS THE BUILDING ARE IN SECTIONS 603.2 THROUGH 603.5. THE LOCATION OF SHUTOFF VALVES IS DETERMINED BY THE ARRANGEMENT OF THE DOMESTIC WATER, FIRE SPRINKLER WATER, AND OTHER WATER SUPPLIES; THE TYPE OF CONTAINMENT BACKFLOW PREVENTERS; AND THE LOCATION OF COMMISSION METERS. FOR SERVICE ARRANGEMENTS AND LOCATION OF CONTAINMENT BACKFLOW PREVENTERS, SEE SECTION 502.3.1. GENERALLY, SHUTOFF VALVES SHALL BE PROVIDED TO ALLOW FOR THE MAINTENANCE OF CONTAINMENT BACKFLOW PREVENTERS, THE MAINTENANCE OF WATER METERS, AND THE ISOLATION OF DOMESTIC WATER SUPPLY AND OTHER PARALLEL SUPPLIES FROM THE FIRE SPRINKLER WATER SUPPLY.

603.2 TYPES OF SUPPLY SHUTOFF VALVES. THE TYPES OF SUPPLY SHUTOFF VALVES INCLUDE:

603.2.1 COMBINATION SUPPLY SHUTOFF VALVE. A COMBINATION SUPPLY SHUTOFF VALVE IS A SINGLE FULL FLOW SHUTOFF VALVE THAT IS INSTALLED IMMEDIATELY AFTER A COMBINATION SERVICE ENTERS A BUILDING, BEFORE ANY BRANCHES, AND THAT CAN SHUTOFF ALL WATER SUPPLIES, INCLUDING THE FIRE SPRINKLER WATER, DOMESTIC WATER, AND ANY OTHER PARALLEL WATER SUPPLY BRANCHES.

603.2.2 ISOLATION SHUTOFF VALVE. AN ISOLATION SHUTOFF VALVE IS A SHUTOFF VALVE THAT CAN SHUTOFF INDIVIDUAL SUPPLIES, INCLUDING DOMESTIC WATER OR OTHER PARALLEL SUPPLIES. AN ISOLATION SHUTOFF VALVE SHALL NOT BE USED TO SHUTOFF THE FIRE SPRINKLER WATER SUPPLY.

603.2.3 INSIDE WATER METER SHUTOFF VALVE. A WATER METER SHUTOFF VALVE IS A SHUTOFF VALVE THAT IS INSTALLED AS A COMPONENT OF A COMMISSION METER ASSEMBLY INSTALLED ACCORDING TO A WSSC STANDARD DETAIL FOR AN INSIDE WATER METER.

603.2.4 BACKFLOW ASSEMBLY SHUTOFF VALVE. A BACKFLOW ASSEMBLY SHUTOFF VALVE IS A SHUTOFF VALVE THAT IS PART OF A TESTABLE BACKFLOW PREVENTION ASSEMBLY.

603.2.4 SINGLE SERVICE SHUTOFF VALVE. A SINGLE SERVICE SHUTOFF VALVE IS A SHUTOFF VALVE FOR SERVICES THAT ARE NOT A COMBINATION FIRE SPRINKLER WATER AND DOMESTIC WATER SERVICE.

603.3 ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR COMBINATION SERVICES. THE ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR COMBINATION DOMESTIC WATER AND FIRE SPRINKLER WATER SERVICES SHALL BE AS FOLLOWS:

603.3.1 SHUTOFF OF FIRE SPRINKLER WATER SUPPLY. THE ONLY SHUTOFF VALVE FOR FIRE SPRINKLER WATER SHALL BE THE TESTABLE BACKFLOW ASSEMBLY SHUTOFF VALVES OR A COMBINATION SUPPLY SHUTOFF VALVE. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A COMBINATION SUPPLY SHUTOFF VALVE IS REQUIRED. THE COMBINATION SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE COMBINATION SERVICE ENTERS THE BUILDING. THE COMBINATION VALVE SHALL BE INSTALLED SO THAT THE FIRE SPRINKLER WATER CANNOT BE SHUTOFF WITHOUT ALSO SHUTTING OFF THE DOMESTIC WATER SUPPLY. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A TESTABLE BACKFLOW PREVENTION ASSEMBLY, THE ONLY SHUTOFF VALVES FOR FIRE SPRINKLER WATER SHALL BE BACKFLOW ASSEMBLY SHUTOFF VALVES. NO ADDITIONAL SHUTOFF VALVES SHALL BE INSTALLED ON FIRE SPRINKLER WATER.

603.3.2 SHUTOFF OF DOMESTIC WATER SUPPLY. AN ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF THE DOMESTIC WATER SUPPLY. ISOLATION SHUTOFF VALVES SHALL NOT BE ABLE TO CONTROL OR SHUTOFF FIRE SPRINKLER WATER. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS THE ISOLATION SHUTOFF VALVE. THE ISOLATION SHUTOFF VALVE SHALL BE INSTALLED ON THE DOMESTIC SUPPLY BRANCH AND WITHIN 5 FEET (1,524 MM) DOWNSTREAM FROM WHERE DOMESTIC WATER BRANCHES FROM THE COMBINATION SUPPLY.

603.3.3 SHUTOFF OF OTHER PARALLEL SUPPLIES. AN ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF EACH OF ANY OTHER PARALLEL SUPPLIES. ISOLATION SHUTOFF VALVES SHALL NOT BE ABLE TO CONTROL OR SHUTOFF FIRE SPRINKLER WATER. A INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS THE ISOLATION SHUTOFF VALVE. THE ISOLATION SHUTOFF VALVE SHALL BE INSTALLED ON EACH PARALLEL SUPPLY BRANCH AND WITHIN 5 FEET (1,524 MM) DOWNSTREAM FROM WHERE THE OTHER WATER SUPPLY BRANCHES FROM THE COMBINATION SUPPLY.

603.4 ARRANGEMENT OF SINGLE SERVICE SHUTOFF VALVES. ARRANGEMENT OF SUPPLY SHUTOFF VALVES FOR SERVICES THAT ARE NOT A COMBINATION FIRE SPRINKLER WATER AND DOMESTIC WATER SERVICE SHALL BE AS FOLLOWS:

603.4.1 SHUTOFF OF FIRE SPRINKLER WATER. THE ONLY SHUTOFF VALVES FOR A SINGLE FIRE SPRINKLER WATER SHALL BE THE TESTABLE BACKFLOW ASSEMBLY SHUTOFF VALVES OR A SINGLE SERVICE SHUTOFF VALVE. WHERE

CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A FULL FLOW SINGLE SERVICE SHUTOFF VALVE IS REQUIRED. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE SINGLE FIRE SPRINKLER WATER SERVICE ENTERS THE BUILDING. WHERE CONTAINMENT FOR FIRE SPRINKLER WATER IS PROVIDED BY A TESTABLE BACKFLOW PREVENTION ASSEMBLY, THE ASSEMBLY VALVES SHALL SERVE AS THE SINGLE SERVICE SHUTOFF VALVE. NO ADDITIONAL SHUTOFF VALVES SHALL BE INSTALLED ON FIRE SPRINKLER WATER.

603.4.2 SHUTOFF OF DOMESTIC WATER. A SINGLE SERVICE SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF DOMESTIC WATER SERVICE. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS A SINGLE SERVICE SHUTOFF VALVE. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE DOMESTIC WATER SERVICE ENTERS THE BUILDING. ADDITIONAL SHUTOFF VALVES ARE ALLOWED.

603.4.3 SHUTOFF OF OTHER WATER SUPPLIES. A SINGLE SERVICE ISOLATION SHUTOFF VALVE SHALL BE PROVIDED TO SHUTOFF OTHER WATER SERVICES. AN INSIDE WATER METER SHUTOFF VALVE OR A BACKFLOW ASSEMBLY SHUTOFF VALVE MAY SERVE AS A SINGLE WATER SHUTOFF VALVE. THE SINGLE SERVICE SHUTOFF VALVE SHALL BE INSTALLED WITHIN 5 FEET (1,524 MM) FROM WHERE THE OTHER SUPPLY WATER SERVICE ENTERS THE BUILDING. ADDITIONAL SHUTOFF VALVES ARE ALLOWED.

603.5 SHUTOFF VALVES FOR LIMITED SYSTEMS. FOR LIMITED SYSTEMS SEE SECTION 506.9.2.3. MULTIPLE SHUTOFF VALVES ARE ALLOWED ON THE DOMESTIC WATER SUPPLY THAT SERVES A LIMITED SYSTEM. FOR LIMITED SUPPLY SYSTEMS WITH ISOLATION BACKFLOW PREVENTION PROVIDED BY A NON-TESTABLE BACKFLOW PREVENTION DEVICE, A FULL FLOW SHUTOFF VALVE SHALL BE INSTALLED AFTER BRANCH AND BEFORE DEVICE.

SECTION [603]604 OUTSIDE WATER METERS

[603.1]604.1 Installation responsibility. Outside meters, settings, and vaults shall be furnished and installed by the Commission or its designee. See Section [112.5.7]**109.5.7**, meter settings and installation.

[603.2 Building service valves.

603.2.1 First valve (water service shutoff valve). A full-flow building water service shutoff valve shall be installed within 3 feet (914 mm) of where the building water service enters the building.

603.2.2 Second valve (domestic isolation shutoff valve). When a NFPA 13D or 13R fire sprinkler system is specified, a second full-flow shutoff valve shall be installed to isolate domestic water from fire sprinkler system and to provide an uninterrupted fire sprinkler system supply. Irrigation supplies, hose bibbs, and pressure reducing valves, shall be installed after the fire sprinkler supply tee; and may be installed ahead of the domestic isolation valve.

603.2.3 Parallel systems. When a NFPA 13 fire sprinkler system is specified, a minimum of a DCVA (ASSE 1015) shall be installed to protect the domestic water from the fire sprinkler system. The supply for the fire sprinkler system may tee off before or after the first valve. When ahead of the first valve, a second valve (domestic isolation shutoff valve) valve is recommended but not required. Irrigation supplies, hose bibs, and pressure reducing valves shall be installed after the first valve and after fire sprinkler tee, as applicable. Process water and non-potable water systems may be established in parallel to the domestic water branch; each branch shall contain a RPBA (ASSE 1013).**]**

[603.3]604.2 Outside meters size 3/4-inch through 2-inch.

[603.3.1]604.2.1 Location. Meter settings size 3/4-inch through 2-inch shall be located in the public right-of-way or in a Commission easement and right-of-way in accordance with Commission standard details.

[603.3.2]604.2.2 Water service connection. The Commission's water service connection responsibility shall terminate at the property line; or, in the case of a Commission easement and right-of-way, at the edge of the right-of-way. The pigtail piping leaving the water meter shall extend between 2 feet (609 mm) and 3 feet (914 mm) onto private property in accordance with Commission standard details.

[603.3.3]604.2.3 Activities by plumbers.

[603.3.3.1]604.2.3.1 Point of connection. Plumbers shall connect to the Commission water service connection pigtail on private property, at or within 3 feet (914 mm) of the property line.

[603.3.3.2]604.2.3.2 Limited access. Except for operating the angle valve as part of construction related activities, or for assessing a problem, which if detected, shall be reported to the Commission, plumbers shall not enter meter settings.

[603.3.3.3]604.2.3.3 Prohibited activity. Except as directed by the Code Official or as cited in this Code, Commission service connections, meter settings, or any portion thereof, shall not be removed, altered, or replaced.

[603.3.3.4]604.2.3.4 Verification required. Before the final plumbing inspection, the plumber shall verify the following:

a. That the correct size and type meter as shown on the plumbing permit has been installed;
b. That the meter setting is the correct size and type for the meter; and
c. The installation is complete and to grade.

See Section [108.4.1.5]**111.4.1.5**.

[603.3.3.5]604.2.3.5 Minor adjustments. Minor adjustments to the meter setting, frame, and cover may be corrected by the plumber before final inspection. Major damages or meter setting deficiencies shall be reported to the Commission.

[603.4]604.4 Outside meters size 3-inch and larger.

[603.4.1]604.4.1 Meter vault location. Where an outside water meter vault is specified by the Commission, the Commission or its designee shall construct the vault on private property, adjacent to public right-of-way, in a Commission easement and right-of-way.

SECTION [604]605 INSIDE WATER METERS

[604.1]605.1 Freeze protection. Water meters installed inside of buildings shall be located in an area capable of maintaining a minimum temperature of 50°F (10°C), as follows:

[604.1.1]605.1.1 Critical dates. The meter room or area shall be heated from November 1 through March 31.

[604.1.2]605.1.2 Insulation. A meter room or area with outdoor exposure shall be thermally protected in accordance with International Building Code requirements. Meter rooms or areas with no direct exposure to the outdoors shall not require extra thermal protection.

[604.1.3]605.1.3 Heat source. Where a heat source is required, it shall be **PERMANENTLY INSTALLED AND** thermostatically controlled within the meter room or area. As an alternative, heat may be provided indirectly with prior approval by the Code Official.

[604.2]605.2 Lighting. Adequate permanent electric lighting shall be provided.

[604.3 Building service valves.

604.3.1 First valve (service isolation valve). A full-flow building water service valve shall be installed within 3 feet (914 mm) of where the building water service enters the building, as close as practical to the meter, and shall be in the same room as the water meter.

604.3.2 Second valve (domestic isolation). When a NFPA 13D or 13R fire sprinkler system is specified, a second full-flow valve shall be installed to provide domestic isolation and to provide an uninterrupted fire sprinkler supply. Irrigation supplies, hose bibbs, and pressure reducing valves, shall be installed after the fire sprinkler supply tee, and may be installed ahead of the domestic isolation valve.

604.3.3 Parallel systems. When a NFPA 13 fire sprinkler system is specified, the domestic water shall be protected against backflow commensurate with the requirements set forth in Chapter 5 of this Code. The supply for the fire sprinkler system shall tee off before the domestic meter assembly. Downstream of the domestic meter assembly, process water and non-potable water systems may be established in parallel to the domestic water branch; each branch shall contain a RPBA (ASSE 1013).

604.3.4 Meter isolation and bypass. Valves on larger meters, meter isolation and bypass valves shall be in the same room as the meter, and as close as practical to the meter.

604.3.4.1 Bypass valve requirement. The required bypass shut off valve within an individual meter piping assembly shall be a tamper resistant and lockable type ball valve.**]**

[604.4]605.3 Remote reader. Provisions for a Commission remote reader shall be provided for all inside Commission meters as follows:

[604.4.1]605.3.1 Conduit size and fittings. Conduit size shall be per Commission standard details and shall have no fittings greater than 45 degrees (0.78 rad); fittings may not be insert type.

[604.4.2]605.3.2 **Conduit terminations.** Conduit termination for remote reader shall be 18 inches (457 mm) to 48 inches (1219 mm) above grade; shall not terminate in a fenced or rear yard; and the preferred termination is along the front wall or sides near front corners. Conduit termination for meter shall be within 12 inches (305 mm) of meter.

[604.4.3]605.3.3 **Conductor cable.** Conductor cable shall be supplied by the Commission; 2 feet (609 mm) of excess cable shall be left at each end; multiple cables may share a conduit; proper identification is required.

[604.4.4]605.3.4 **Penthouse mechanical rooms.** The conduit and cable shall be routed such that the remote reader can be located on an accessible exterior wall of the mechanical room. Where an accessible exterior wall is not available, an alternate location shall be pre-approved by the Commission's meter services department.

[604.5]605.4 **Inside meters size 3/4-inch through 2-inch.**

[604.5.1]605.4.1 **Water service connection.** Water service connections, size 1-inch through 2-inch, shall be located in the public right-of-way in accordance with Commission standard details. The Commission water service connection shall terminate with a curb valve at the property line or, the edge of the public right-of-way or Commission easement and right-of-way, whichever is closer to the main.

[604.5.2]605.4.2 **Activities by plumbers.**

[604.5.2.1]605.4.2.1 **General.** Plumbers shall connect to the Commission's curb valve. Unless directed by a Code Official, Commission service connections or any portion thereof, shall not be removed, altered, or replaced.

[604.5.2.2]605.4.2.2 **Curb valve depth.** The maximum depth from finished grade to the curb valve shall be 60 inches (1524 mm); minimum depth shall be 42 inches (1066 mm).

[604.5.2.3]605.4.2.3 **Valve box required.** A pre-manufactured cast metal valve or curb box shall be furnished and installed by the plumber at the property line, the edge of the public right-of-way or Commission easement and right-of-way, whichever is closer, and shall consist of the valve box, adjustable top section, and lid. An extension stem and guide shall be installed on a curb stop valve 1-inch and smaller. 1 1/2-inch and 2-inch curb valves shall not be outfitted with an extension stem and guide.

[604.5.2.3.1]605.4.2.3.1**Permanent marking required.** Where a valve/curb valve is serving a property under any of the following conditions, the access assembly (curb valve box) top shall be permanently marked/labeled with the corresponding address (house/unit number):

- **a.** Multiple water service connections to multiple homes/units on a single lot/tract of property.
- **b.** Within 20 feet (6 096 mm) of an adjacent valve/curb valve access assembly.
- **c.** Any scenario where it may not be readily apparent to future service providers as to which home/unit is served by any given valve/curb valve. (e.g. Cul-de-sac, flag lots, etc.)

[604.5.2.4]605.4.2.4 **Valve box support.** The valve box assembly shall be installed on a firm foundation. It shall be installed on undisturbed earth, compacted or granular fill, or structural wood bridging supported by undisturbed earth, as approved by the Code Official. In vehicular traffic areas, a formed concrete pad 24 inches (609 mm) square or round, by 4 inches (101 mm) thick shall be provided to support the valve box. The concrete pad may be below finished paving.

[604.5.2.5]605.4.2.5 **NFPA 13D or 13R residential fire sprinkler connection.** On residential buildings equipped with a NFPA 13D or 13R residential fire sprinkler system, the tee feeding the residential fire sprinkler system shall be located on the outlet side of the meter. No valve shall be installed on the tee branch supplying the fire sprinkler system.

[604.5.2.6]605.4.2.6 **Final plumbing inspection.** Before final inspection, the plumber shall verify that (a) the top of the curb box is complete, operational, and flush with the permanent grade; and (b) the correct size and type of meter as shown on the plumbing permit has been installed. See Section [108.4.1.5]111.4.1.5.

[604.6]605.5 **Meter test sleeves not required.** Meter test sleeves/piping shall not be required for any 1-1/2-inch meter or for any submeter located in a penthouse mechanical room. All other meter applications require test sleeves/piping according to Commission standard details.

CHAPTER 7

This Chapter is deleted in its entirety and intentionally left blank

For provisions relating to design and construction of site utility systems (formerly Chapter 7), refer to the WSSC Development Services Code.

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CHAPTER 8 INDUSTRIAL AND SPECIAL WASTE

SECTION 801 APPLICABILITY

801.1 Scope. This chapter shall authorize the regulation of Industrial Users discharging to the Commission wastewater system through the issuance of permits to certain industrial users that discharge non-domestic wastewater and through enforcement of general requirements for other users; shall authorize monitoring and enforcement activities; shall detail user reporting requirements; and shall provide for the setting of fees for the equitable distribution of costs resulting from the program established herein. These requirements shall apply to all persons within the Sanitary District and to persons outside the Sanitary District who are, users of the Commission sewer and wastewater treatment systems by agreement, permit or other means. Persons who apply for or receive service from the Commission shall be deemed to have consented to inspections and shall comply with Commission regulations. Water re-use systems are subject to chapter 9.

801.2 Definitions. In addition to the definitions generally applicable to the provisions of this Code (See Chapter 2), the following definitions are specifically applicable to the provisions of this Chapter 8, Industrial and Special Waste.

"**Administrator**" Means the administrator of the U.S. Environmental Protection Agency."

"**Authorized Representative**" means the following:

- **a. Corporation.** If the Industrial User is a corporation, authorized representative shall mean:
  - **i.** The president, secretary, treasurer, or a vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or
  - **ii.** The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations, can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- **b. Partnership Or proprietorship.** If the Industrial User is a partnership, or sole proprietorship, an authorized representative shall mean a general partner or proprietor, respectively.
- **c. Government.** If the Industrial User is a federal, state or local governmental facility, an authorized representative shall mean a director or highest official appointed or designated to oversee the operation and performance of the activities of the government facility, or the authorized representative's designee.
- **d. Designee.** If individuals described in **[**Paragraph 801.2.2**]THE DEFINITION OF AUTHORIZED REPRESENTATIVE** may designate another authorized representative if the authorization is in writing; the authorization specifies the individual or position responsible for the overall operation of the facility from which the discharge originates or having overall responsibility for environmental matters for the company; and the written authorization is submitted to the Commission.
- **e. New Authorization.** If authorization in item 'd' is no longer accurate because a different individual or position has responsibility, a new authorization satisfying the requirements of items 'a' and 'd' of "authorized representative" must be submitted to the Commission before or together with any reports to be signed by an authorized representative.

"**Best management practices (BMPs)**" means methods, activities, prohibitions of practices, maintenance procedures, and other management practices designed to **[**reduce the quantity of pollutants discharged to a pretreatment system or to the POTW**]IMPLEMENT THE PROHIBITIONS LISTED IN SECTION 802 AND SECTION 804 OF THE CODE**. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw materials storage.

"**Biochemical oxygen demand (BOD)**" means the measure of oxygen consumed in the biochemical oxidation of organic matter in 5 days at 20 degrees Celsius expressed in milligrams per liter (mg/l).

"**Bypass**" means the intentional diversion of wastestreams from any portion of an Industrial User's treatment facility.

"**Categorical industrial user**" means any industrial user who is subject to categorical pretreatment standards.

"**Categorical pretreatment standard (categorical standard)**" means any regulation containing pollutant discharge limits promulgated by EPA in accordance with Sections 307(b) and (c) of the Clean Water Act which apply to a specific category of users and which appear in 40 CFR Chapter I, Sub-Chapter N, Parts 405-471.

"**Code of Federal Regulations (CFR)**" means a codification of the general and permanent rules published in the Federal Register by the Executive Department and agencies of the Federal government.

"**Chronic violations**" means violations of wastewater discharge limits in which 66 percent or more of all of the measurements taken for the same pollutant parameter during a 6-month period exceed (by any magnitude) a numeric **[**Pretreatment Standard**]PRETREATMENT STANDARD** or **[**Requirement**]REQUIREMENT**, including instantaneous limits, as defined by 40 CFR 403.3(l).

"**Composite sample**" means a combination of individual samples collected at regular intervals over a time period **[**not to exceed 24 hours in any given**]LIMITED TO WITHIN A SINGLE** calendar day. The volume of each individual sample may be either proportional to the flow rate during the sample period (flow composite), or constant and collected at equal time intervals during the composite period (time composite).

"**Decontamination wastewater**" means wastewater generated as a result of decontamination activities performed after an industrial disaster, occupational exposure, natural catastrophe, warfare, act of terrorism, or similar event with chemical, biological or radiological substances; activity at hazardous waste sites; or chemical spill exposures.

"**Discharge authorization permit**" means a permit issued by the Commission authorizing the discharge of industrial wastes into the wastewater treatment system subject to specific discharge standards, reporting requirements and other restrictions.

"**Domestic wastes**" means waterborne wastes derived from ordinary living processes.

"**Effluent**" means the flow of liquid out of a fixture, pipe, process, or system.

"**Environmental Protection Agency (EPA)**" means the U.S. Environmental Protection Agency or, where appropriate, the Regional Water Management Division Director, or other duly authorized official of said agency.

"**Existing source**" means source of discharge, the construction of which commenced before the publication by EPA of proposed categorical pretreatment standards, which will be applicable to such source if the standard is thereafter promulgated in accordance with Section 307 of the Clean Water Act.

"**Food Service Establishments (FSEs)**" means establishments where food is served to or provided for the public, with or without charge, including restaurants, cafeterias, hotel kitchens, church kitchens, school kitchens, hospital cafeterias, bars, or any other commercial operation that has the potential to discharge grease-laden wastewater.

"**Garbage**" means the solid animal and vegetable waste resulting from domestic or commercial handling, storage, dispensing, preparation, cooking and serving of foods.

"**Grab sample**" means a sample taken from a wastestream without regard to the flow in the wastestream and over a time not to exceed 15 minutes.

"**Ground water**" means subsurface water occupying the zone of saturation, either confined or free.

"**Confined ground water**" means a body of ground water covered with a material impervious enough to sever free hydraulic connection with overlying ground water.

"**Free ground water**" means ground water in the zone of saturation extending down to the first impervious barrier.

"**Indirect discharge**" means the introduction of pollutants into a POTW from any non-domestic source regulated under Sections 307(b), (c) or (d) of the Clean Water Act.

"**Industrial User**" means any place of business, endeavor, arts, trade or commerce, whether public or private, commercial or charitable, that uses water in a product, process, or any manner that generates wastewater which is a source of indirect discharge. For the purposes of Chapter 8 the terms Industrial User and User will be used interchangeably.

"INDUSTRIAL WASTE MONITORING POINT (IWMP)" MEANS A COMMISSION APPROVED ACCESS OPENING TO THE BUILDING DRAINAGE SYSTEM FOR THE PURPOSE OF OBTAINING SAMPLES OF THE INDUSTRIAL USER'S WASTE DISCHARGES. LIMITS IMPOSED ON PERMITTED INDUSTRIES APPLY AT THIS POINT.

"**Industrial wastes**" means liquid or liquid borne wastes resulting from the processes employed in industrial and commercial establishments.

"**Influent**" means the flow of a liquid into a fixture, pipe, process, or system.

"**Interference**" means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:

a. Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use, or disposal; and

b. Is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA)(including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtitle D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act.

"**Lower Explosive Limit (LEL)**" means the minimum concentration of a particular combustible gas that can be ignited in air.

["**Industrial Waste Monitoring** Port **(IWMP)**" means a Commission approved access opening to the building drainage system for the purpose of obtaining samples of the industrial user's waste discharges. Limits imposed on permitted industries apply at this point.**]**

"**Misconduct**" means the use of abusive language, threats, mischievous or criminal acts, directed toward the public while providing services, or toward a Code Official while performing official duties.

"**New source**" means:

"**Any premises"** means any building, structure, facility, or installation from which there is, or may be, a discharge of pollutants; the construction of which commenced after the publication of proposed pretreatment standards under Section 307(c) of the Clean Water Act which will be applicable to such source if such standards are thereafter promulgated in accordance with that section, provided that:

a. The building, structure, facility or installation is constructed at a site at which no other source is located; or

b. The building, structure, facility or installation totally replaces the process or production equipment that causes the discharge of pollutants at an existing source; or

c. The production or wastewater generating processes if the building, structure, facility or installation is substantially independent of an existing source at the same site. In determining whether these are substantially independent, factors such as the extent to which the new facility is integrated with the existing plant, and the extent to which the new facility is engaged in the same general type of activity as the existing source should be considered.

"**Construction site**" means construction on a site at which an existing source is located results in a modification rather than a new source if the construction does not create a new building, structure, facility or installation meeting the criteria of items 'b' and 'c' of "any premises" but otherwise alters, replaces, or adds to existing process or production equipment.

"**New source**" means construction of a new source as defined under this paragraph has commenced if the owner or operator has:

a. Begun, or caused to begin as part of a continuous on-site construction program as follows:

i. Any placement, assembly, or installation of facilities or equipment; or

ii. Significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or

b. Entered into a binding contractual obligation for the purchase of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under this paragraph.

"**Non-contact cooling water**" means water used for cooling which does not come into direct contact with any raw material, intermediate product, waste product, or finished product.

"**Non-domestic waste**" means the liquid wastes from industrial or commercial processes, trade or business; distinct from domestic wastes.

"**NPDES permit**" means a National Pollutant Discharge Elimination System Permit. NPDES Permits authorize the operation of COMMISSION wastewater treatment plants. NPDES Permits for Commission plants shall be issued by the State of Maryland.

"**Owner**" means a proprietor, person, or entity who owns or has exclusive rights of possession.

"**Person**" means any individual; partnership; co-partnership; firm; company; corporation; association; joint stock company; trust; estate; Federal, State, and local governmental entity; society; group or any other legal entity; or their legal representatives, agents, or assigns or governmental entities.

"**Pass-through**" means a discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation).

"**pH**" means a measure of acidity, or alkalinity of a liquid. It is represented on a scale of 0 to 14 with 7 representing a neutral state; 0 representing the most acidic; and 14 representing the most alkaline.

"**Pollutant**" means any dredged spoil, solid waste, incinerator residue, sewage, garbage, sewage sludge, chemical wastes, biological wastes, radioactive wastes, heat, rocks, sand and other industrial, municipal, commercial and agricultural waste or any other contaminant.

"**Pollution**" means the addition of sewage, industrial wastes, or other harmful or objectionable material to water. Sources of pollution includes privies, septic tanks, subsurface irrigation fields, seepage pits, sink drains, barnyard wastes, etc.

"**POTW**" means a **TREATMENT WORKS AS DEFINED BY SECTION 212 OF THE CLEAN WATER ACT, WHICH IS OWNED BY THE COMMISSION.** Publicly-Owned Treatment Works of the Commission**[**, which**]** includes any device and system used in storage, treatment, recycling, and reclamation of municipal sewage or industrial waste of a liquid nature. Also included are sewers, pipes, and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality, as defined in Section 502(4) of the Clean Water Act, which has jurisdiction over the indirect discharges to and the discharges from such a treatment works.

"**POTW treatment plant**" means that portion of the POTW which is designed to provide treatment (including recycling and reclamation) of municipal sewage.

"**Pretreatment**" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater **[**prior to**]BEFORE** or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration may be obtained by physical, chemical, or biological processes, process changes, or by other means, except as prohibited by 40 CFR 403.6(d) of the General Pretreatment Regulations. Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the POTW. However, where wastewater from a regulated process is mixed in equalization facility with unregulated wastewater, wastewater from another regulated process, or a dilution flow, the effluent from the equalization facility must meet an adjusted pretreatment limit calculated in accordance with 40 CFR 403.6(e).

"**Pretreatment requirements**" means any substantive or procedural requirement related to **[**Pretreatment**]PRETREATMENT**, other than a National **[**Pretreatment Standard**]PRETREATMENT STANDARD**, imposed on an Industrial User.

"**Pretreatment standards, NATIONAL PRETREATMENT STANDARDS or standards [prohibited]**" means prohibited discharge standards, categorical **[**Pretreatment Standards**]PRETREATMENT STANDARDS**, state pretreatment standards, **[**and**]** local limits**, AND ANY PROHIBITED DISCHARGE LIMITS PURSUANT 40 CFR 403.5**.

"**Prohibited discharges**" means absolute ban against the discharge of certain substance; these prohibitions appear in Section 804 of this Code.

"**Properly shredded garbage**" means garbage that has been shredded such that all particles will be freely carried under flow conditions normally occurring in the wastewater sewers with no particles greater than ½-inch in any dimension.

"**RCRA**" means the **[**resource**]RESOURCE** Conservation Recovery Act.

"**Severe property damage**" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

"**Significant Industrial User**" means an industrial User meeting the criteria as defined in 40 CFR 403.3, the criteria being:

a. All Industrial Users subject to **[**Categorical Pretreatment Standards**]CATEGORICAL PRETREATMENT STANDARDS** under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and

b. Any other Industrial User that discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, non-contact cooling and boiler blow-down wastewater); or

c. Any Industrial User which contributes process wastes stream which makes up 5-percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or

d. Any Industrial User designated by the Commission on the basis that the Industrial User has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement in accordance with 40 CFR 403.8(f)(6).

NOTE: Upon a finding that an Industrial User, meeting the above criteria of this definition, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Commission may at any time, on its own initiative or in response to a petition received from an Industrial User, and in accordance with 40 CFR 403.8(f)(6), determine that such Industrial User is not a Significant Industrial User.

"**Slug discharge**" means **[**a slug discharge is**]** any discharge of a non-routine, episodic nature, including an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass-through, or in any other way violate the Commission's regulations, local limits or Permit conditions. Also referred to as slug load or slug loadings.

"**Special wastes**" means wastes that require special treatment before entry into the normal plumbing system.

"**Storm water**" means any flow of water occurring during or following any form of natural precipitation, and resulting from such precipitation, including snowmelt.

"**Technical Review Criteria (TRC)**" means violations of wastewater discharge limits in which 33 percent or more of all the measurements taken for the same pollutant parameter taken during a 6-month period equal or exceed the product of the numeric **[**Pretreatment Standard**]PRETREATMENT STANDARD** or **[**Requirement**]REQUIREMENT** including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease; and TRC=1.2 for all other pollutants except pH).

"**Toxic substances**" means substances that, when inhaled or ingested, can cause death or disease.

["**Total PCBs**" means the summation of all concentrations for Arochlor 1016, 1221, 1232, 1242, 1248, 1254, and 1260 that are above the reporting detection limit (RDL) or reporting limit (RL) of 0.001 mg/L. EPA analytical method 608 shall be used for all PCB analysis.**]**

"**Upset**" means an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the Industrial User. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

"**Wastewater**" means a liquid and water-carried industrial waste and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated which are discharged to the POTW.

"**Zero discharge categorical industrial user**" means a user which may be identified by the Commission as a **[**Categorical Industrial User**]CATEGORICAL INDUSTRIAL USER**, as defined herein, which has voluntarily elected not to discharge any of its categorically regulated process wastewater to the POTW, but to dispose of the wastewater by other legal means.

SECTION 802 GENERAL PROVISIONS

802.1 Objectives. This Industrial and Special Waste chapter shall detail uniform requirements for Industrial Users discharging into the wastewater collection and treatment systems of the Commission and shall enable the Commission to comply with all applicable state and federal laws required by the Clean Water Act of 1977 and the General Pretreatment Regulations of 1981, as amended. The objectives of this Chapter shall be:

802.1.1 Prevent interference with operations. To prevent the introduction of pollutants into the Commission wastewater system that will interfere with the operation of the system or contaminate the resulting sludge.

802.1.2 Prevent inadequate treatment. To prevent the introduction of pollutants into the Commission wastewater system that will pass through the system, inadequately treated, into receiving waters or otherwise be incompatible with the system.

802.1.3 Reclaim wastes. To improve the opportunity to recycle and reclaim municipal and industrial wastewater and sludge.

802.1.4 Endangerment. To prevent the introduction of pollutants into the collection system which endanger workers or interfere with the operation of the collection system or treatment plants.

802.1.5 Fees. To provide for the levying and collection of fees for the equitable distribution of the cost of the operation, maintenance and improvement of the Commission's **[**Industrial Discharge Control**]PRETREATMENT** Program.

SECTION 803 GENERAL DISCHARGE REQUIREMENTS

803.1 All Industrial Users. All Industrial Users discharging non-domestic wastes into the Commission's sanitary sewers from a building drain or sewer or any other method (e.g. waste hauler) shall meet the standards and requirements of this chapter. The Commission shall reserve the right, as it may deem proper, to require pretreatment of industrial wastes, or any other special kinds of wastes, before such wastes are discharged to the sanitary sewer.

803.2 Federal and other standards. All Industrial Users shall comply with the Federal general pretreatment regulations in 40 CFR Part 403 and the applicable national categorical pretreatment standards set out in 40 CFR Chapter I, Subchapter N Parts 405 through 471 as amended, and all other applicable Federal, State, or local discharge limitations, requirements or standards. Limitations imposed on users at the point of application shall be the most stringent limitations applicable. These may be Federal, State, or local requirements or standards. In the event that an Industrial User discharges to any outside jurisdiction, the Commission shall enforce **APPLICABLE** discharge limitations, requirements, or standards at least as stringent as those established in the outside jurisdiction.

803.3 Discharge limits. The Commission may impose mass discharge limits in lieu of, or in conjunction with, concentration discharge limits.

803.4 Categorical standards. The national categorical pretreatment standards found in 40 CFR Chapter I, Subchapter N, Parts 405-471 shall hereby be incorporated.

803.5 State standards. The State pretreatment standards found in COMAR Title 26 shall hereby be incorporated.

803.6 Special agreements. No provision contained in this Code shall be deemed to prevent any special agreement or arrangement between the Commission and any person, whereby wastewater of unusual strength or characteristic may be accepted by the Commission for treatment, that will not violate or cause the Commission or the user to violate, Federal or State pretreatment requirements or standards; and which shall not be harmful to the system. Under no circumstances shall Federal or State pretreatment standards or requirements be waived.

SECTION 804 PROHIBITED DISCHARGES

804.1 Prohibited discharge to sanitary sewer. No person shall discharge the following, or cause the following to be discharged, directly or indirectly, into the Commission's sanitary sewer:

804.1.1 Temperature. Any liquids or vapors having a temperature greater than 140°F (60°C). In no case shall discharged waste raise the temperature at the treatment works influent greater than 104°F (40°C).

804.1.2 Fire or explosion hazard. Any liquids, solids or gases that by reason of their nature or quantity are, or may be, either alone or by interaction with other substances sufficient to cause a fire or explosion hazard in the POTW or its processes, including waste streams with a closed cup flash point of less than 140°F (60°C) using the test methods specified in 40 CFR 261.21. At no time shall an Industrial User discharge any substance which results in a reading of greater than 5-percent of the Lower Explosive Limit (LEL) for that substance using a methane calibrated combustible meter, at the point of discharge to a fixture or at any point in the system.

Materials that can create a fire or explosion hazard include gasoline, kerosene, naphtha, ethers, alcohols, ketones, aldehydes, peroxides, chlorates, perchlorates, bromates, carbides, hydrides and sulfides and any other substances determined to be a fire or explosion hazard.

804.1.3 Public nuisance or hazard. Any malodorous or toxic gases, vapors, fumes, or other substances that, either singly or by interaction with other wastes, shall be capable of creating a public nuisance, a hazard to human health or the environment, or the prevention of entry by Commission personnel into sewers for maintenance and repair.

804.1.4 Interference and pass-through. Any liquids, solids, or gases not amenable to treatment or reduction by the sewage treatment processes employed, or amenable to treatment only to such a degree that the wastewater treatment plant violates its NPDES permit; or any substance which may interfere with or pass-through the POTW into the receiving waters untreated or without adequate treatment.

804.1.5 Excess coloration. Any liquids, solids, or gases that, singly or by interaction with other material, cause excessive coloration which may pass-through the POTW to the receiving waters or any substance with excessive color such that the color is not removed in the wastewater treatment plant, including dye wastes.

804.1.6 Obstruction to flow. Any lint, ashes, cinders, sand, mud, straw, shavings, metals, glass, bones, wood, plastics, stone dusts, rags, paunch manure, butcher's offal, or any solids, liquids or other substances capable of causing obstruction to the flow in sewers or other interference with the proper operation of the wastewater system.

804.1.7 Concentrated releases. Any slug load, decontamination wastewater, release rate of pollutants, concentration of pollutants, including oxygen demanding pollutants either singly or by interaction with other pollutants or waste streams, which shall cause interference with any wastewater treatment process, constitute a hazard to humans or animals, contaminate sludge, pass-through the POTW to receiving waters, or could result in a violation of the POTW's NPDES permit.

804.1.8 Excess daily flow. Unless otherwise permitted in writing, an average daily flow greater than 2-percent of the average daily sewage flow at the wastewater treatment plant receiving the industrial waste.

804.1.9 Discharge limitations. Any water or wastewater containing substances in excess of the limitations contained in Table 804.1.9. These limits shall be subject to revision and may be modified to represent concentration or mass based standards.

804.1.10 Radioactive wastes. Any radioactive wastes or isotopes of such half-life or concentration as to exceed limits established by applicable local, State, or Federal regulations. Reports of discharges to the Commission's system shall reflect actual discharge concentrations rather than any time or dilution adjustments.

804.1.11 Pathogenic wastes. Any substance containing viable pathogenic or parasitic organisms that could pose a health hazard to the public, endanger workers, or interfere with the operation of the Commission wastewater system or treatment plants.

804.1.12 Storm or ground water. Any storm water, surface water, ground water, roof runoff, subsurface drainage.

804.1.13 Viscous substances. Any substances that could solidify or become viscous at temperatures between 40°F (4°C) and 140°F (60°C); or at any other temperature that could cause obstruction [and/]or interference OR BOTH with the conveyance system or the POTW processes.

804.1.14 Dilution prohibition. [Any**]EXCEPT WHERE EXPRESSLY AUTHORIZED TO DO SO BY AN APPLICABLE PRETREATMENT STANDARD OR REQUIREMENT, ANY** water added to a discharge as a partial or complete substitute for proper treatment to achieve compliance with applicable discharge limitations for any wastewater constituent.

804.1.15 Hauled pollutants. Except at disposal sites designated by the Commission in conformance with the provisions cited in Section 814, any trucked or hauled pollutants.

804.1.16 Oils. Any wastes containing petroleum oil, non-biodegradable cutting oil, or products of mineral oil origin in amounts that could cause Interference or Pass-Through.

804.1.17 Glycol. Any glycol compound or derivative added to or contained in internal combustion engine cooling systems or liquid conveyance systems for the purposes of altering liquid freezing or boiling points.

804.1.18 Pretreatment residue. Sludges, screenings or other residues from pretreatment systems or industrial processes.

804.1.19 Corrosive substances. Substances causing corrosive damage, harm or endangerment to the collection system, pumps, or personnel.

[804.1.20 Mercury. Except as otherwise provided in this section, any substance containing mercury in amounts greater than 0.03 mg/L. Dental practices may follow Commission approved Best Management Practices (BMPs) for dental waste dischargers, in lieu of monitoring for the numerical discharge limitation for substances containing mercury.**]**

[804.1.21**]804.1.20 Perchloroethylene.** Any discharge of perchloroethylene or perchloroethylene-containing products from a water separator (used for the purpose of recovering perchloroethylene) or from any dry cleaning process.

TABLE 804.1.9 - DISCHARGE LIMITATIONS

Discharge Limitations[1,2]

Pollutants	Limit[3]
Inorganics (total)	**Concentration (mg/l)**
Arsenic	0.28
Cadmium	0.10
Chromium	7.0
Copper	2.0
Cyanide	0.40
Lead	0.35
MERCURY	**0.03**
Molybdenum	0.35
Nickel	3.4
Selenium	0.4
Silver	0.5
Zinc	4.2
Organics	**Concentration (mg/l)**
Tetrachloroethylene (Tetrachloroethene)	0.945
Trichloroethylene (Trichloroethene)	0.026
Total PCBs[4]	<0.001
Conventionals	**Concentration (mg/l) (except as indicated)**
Ammonia	190
TOTAL Dissolved Solids	5,000
TOTAL Suspended Solids	3,000
Total Solids	8,000
[BOD**]BIOCHEMICAL OXYGEN DEMAND** (5-day, 20°C)	3,000
Total **[**Phosphorous**]PHOSPHORUS**	8.0
Oil And Grease (Non-Polar, Petroleum)	250
Fats, Oil and Grease (FOG, Polar)[5]	200
pH[6]	6.0 - 10.0 Standard units
Temperature	140°F

Notes:

1. Limits expressed in this table represent absolute maximum limitations and shall not be exceeded at any time. This list shall not be construed as a complete list of restricted materials. Restrictions may also be placed on other materials when the concentration of these materials is sufficient to adversely affect any portion of the collection or treatment system.

2. Unless otherwise specified in the permit, to determine compliance with numerical permit limitations the analytical methods *shall* include:

a) any *approved* method with a Method Detection Level (MDL) adequate to detect concentrations of at least one-tenth the level of the permit limitation, or

b) if there is no *approved* method sensitive to at least one-tenth of the permit limitation, then the most sensitive method *approved* in 40 CFR Part 136 or other method *approved* by EPA for wastewater is required.

3. Maximum for any sample obtained during a calendar day.

4.Total **[**PCBs**]POLYCHLORINATED BIPHENYLS (PCBs)** shall consist of the summation of all concentrations for Arochlor 1016, 1221, 1232, 1242, 1248, 1254, and 1260 that are above the reporting detection limit (RDL) or reporting limit (RL) of 0.001 mg/L. **AN** EPA **APPROVED** analytical method **[**608**]PER 40 CFR 136** with a minimum RDL or RL of 0.001 mg/L shall be used for all PCB analysis.

5. Fats, wax, grease, or oils of animal or vegetable origin, whether emulsified or not. Any discharge capable of causing an obstruction or interference with the plumbing system, conveyance system, or the POTW processes shall be prohibited regardless of limit.

6. In the event an Industrial User monitors their pH continuously, a pH violation shall be construed as any excursion less than 6 or greater than 10 for more than 15 minutes **[**at any one time**]CONSECUTIVELY**, or more than 30 minutes in aggregate, for any calendar day. In the event that an Industrial User monitors their pH by collecting grab samples, a pH violation shall exist if greater than 6.25% of the grabs taken that day are less than 6.0 or greater than 10.0. The pH shall not be less than 5 for any period of time.

SECTION 805 STORAGE OF PROHIBITED, TOXIC, OR HAZARDOUS SUBSTANCES

805.1 General. The Commission shall review and approve the storage of any materials that could:

- **a.** Enter the Commission's sanitary sewers via discharge, accidental spill, or leakage;
- **b.** Create a hazard or in any other way have a deleterious effect on the conveyance systems or treatment processes; or
- **c.** Constitute a hazard to any individuals.

The Commission shall require reasonable safeguards to prevent the discharge, spill, or leakage of such materials into the sanitary sewage system. When deemed necessary, the owner shall install and maintain, at the owner's expense, suitable control structures or devices that may include dikes, dams, or sumps to prevent sudden or accidental waste discharges to the sanitary sewage system.

SECTION 806 DISCHARGE AUTHORIZATION PERMITS AND CATEGORICAL ZERO DISCHARGE PERMITS

806.1 Applicability. The Discharge Authorization Permit (DAP) grants permission to the Industrial User to discharge industrial waste into the sewer system. All Industrial Users shall apply to the Commission for a Discharge Authorization Permit. The Commission may require other Industrial Users, as it deems necessary, to submit a Discharge Authorization Permit Application and obtain a permit. Discharge Authorization Permit Applications shall be signed by an authorized representative of the Industrial User. No Significant Industrial User or other Industrial User designated by the Commission shall discharge to the Commission's sanitary sewer system without first obtaining a Discharge Authorization Permit.

The Commission may require Zero Discharge Categorical Industrial Users to submit a Discharge Authorization Permit Application and obtain a Categorical Zero Discharge Permit. Discharge Authorization Permit Applications shall be signed by an authorized representative of the Industrial User.

806.1.1 Application review. The Commission shall review the application submitted by the Industrial User and may require additional information. Within 90 days of receiving a complete application, the Commission shall make the determination that a Discharge Authorization Permit or a Categorical Zero Discharge Permit may be warranted. The Commission shall issue a permit if it is determined that pretreatment facilities are adequate for efficient treatment of discharged waste and that the discharged waste complies with the discharge limitations of these regulations or **[**with the National Pretreatment Standards, whichever is applicable**]OTHER APPLICABLE PRETREATMENT STANDARDS**.

806.1.2 Duration. The Discharge Authorization Permit and Categorical Zero Discharge Permit shall be issued for a specified time period not to exceed 5 years. This permission shall be conditional on compliance with Discharge Authorization Permit requirements and this Code.

806.1.3 Terms and conditions. Permitted Industrial Users and Zero Discharge Categorical Industrial Users shall comply with the terms, conditions and limitations of a Discharge Authorization Permit and Categorical Zero Discharge Permits, respectively. It shall be a violation of this Code for any person to violate any term, condition or limitation set forth in any Permit. Failure to comply may result in civil or criminal liability under applicable State or Federal Law and may be grounds to impose penalties, as outlined in the Commission's Enforcement Response Plan.

806.2 Discharge Authorization Permit requirements. The Discharge Authorization Permit contains requirements necessary for the Commission to assess and ensure compliance with these Regulations. Permitted Industrial Users shall take all reasonable steps to correct any adverse impact resulting from noncompliance with the Discharge Authorization Permit, including accelerated additional monitoring as necessary to determine the nature and impact of the noncompliant discharge. The Discharge Authorization Permit shall at a minimum contain the following:

- **a.** Effective and expiration dates.
- **b.** Statement of non-transferability as specified in Section 806.7.
- **c.** Effluent limitations, including best management practices, based on applicable general pretreatment standards, categorical pretreatment standards, local limits, state and local law, or any of these.
- **d.** Self-monitoring, sampling, reporting, notification, and record keeping requirements, including an identification of the pollutants to be monitored, sampling location, sampling frequency, and sample type, based on applicable general pretreatment standards, categorical pretreatment standards, local limits, state and local law, or any of these.
- **e.** Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond applicable federal deadlines.
- **f.** Requirement to control slug discharges, if determined by the Commission to be necessary.

g. The Discharge Authorization Permit may contain other conditions as deemed appropriate by the Commission to ensure compliance with all applicable pretreatment standards and requirements.

806.3 Categorical Zero Discharge Permit requirements. The Categorical Zero Discharge permit contains requirements necessary for the Commission to assess and ensure compliance with these Regulations. Permitted Zero Discharge Categorical Industrial Users shall take all reasonable steps to correct any adverse impact resulting from noncompliance with the Categorical Zero Discharge Permit. The Categorical Zero Discharge Permit shall at a minimum contain the following:

a. Effective and expiration dates.
b. Statement of prohibited discharge of categorically regulated process wastewater.
c. Statement of non-transferability as specified in Section 806.7.
d. Reporting, notification, and record keeping requirement.
e. Statement of applicable civil and criminal penalties for violation of pretreatment standards and requirements, and any applicable compliance schedule. Such schedules may not extend the compliance date beyond applicable federal deadlines.
f. The Categorical Zero Discharge Permit may contain other conditions as deemed appropriate by the Commission to ensure compliance with all applicable pretreatment standards and requirements.

806.4 Discharge Authorization and Categorical Zero Discharge Permit modifications. The Commission may modify the Discharge Authorization or the Categorical Zero Discharge Permit for good cause including the following:

a. To incorporate any new or revised Federal, State, or local pretreatment standards or requirements.
b. To address significant alterations or additions to the user's operation, processes, or wastewater volume or character since the time of Discharge Authorization Permit or Categorical Zero Discharge Permit issuance.
c. A change in the POTW that requires either a temporary or permanent reduction or elimination of the authorized discharge.
d. Information indicating that the permitted discharge poses a threat to the Commission's treatment plants, collection system, personnel, or the receiving waters.
e. Violation of any terms or conditions of the Discharge Authorization Permit or the Categorical Zero Discharge Permit.
f. Misrepresentations or failure to fully disclose all relevant facts in the Discharge Authorization Permit application or in any required reporting.
g. Revision of or a grant of variance from categorical pretreatment standards under 40 CFR 403.13.
H. To correct typographical or other errors in the Discharge Authorization Permit or the Categorical Zero Discharge Permit.
[h.]I. To reflect a transfer of the facility ownership or operation to a new owner or operator.

806.5 Discharge Authorization and Categorical Zero Discharge Permit suspension or termination. The Commission may **SUSPEND OR** terminate **[**or suspend**]** a Discharge Authorization Permit or a Categorical Zero Discharge Permit for good cause including the following:

a. Failure to notify the Commission in advance of significant changes to industry processes, pretreatment modifications, or wastewater characteristics.
b. Misrepresentation or failure to fully disclose all relevant facts in the Discharge Authorization Permit application.
c. Falsifying self-monitoring reports or certification statements.
d. Tampering with monitoring equipment.
e. Refusing to allow Commission personnel timely access to the facility premises and records.
f. Failure to comply with Discharge Authorization conditions, requirements or effluent limitations.
g. Failure to pay fines, permit renewal fees, or annual discharge fee.
h. Failure to meet compliance schedules.
i. Failure to complete a wastewater survey or the Discharge Authorization Permit application.
j. Failure to provide advance notice of the transfer of business ownership of a permitted facility.
k. Violation of any pretreatment standard or requirement, or any terms of the Discharge Authorization Permit, the Categorical Zero Discharge Permit, or these regulations.

806.5.1 Suspension or termination. Upon notification of suspension or termination of a Discharge Authorization Permit or Categorical Zero Discharge Permit by the Commission, the Industrial User shall cease all discharges of wastes regulated by the Discharge Authorization Permit.

806.5.2 Reinstatement. The Commission shall not reinstate or reissue a suspended or terminated Discharge Authorization Permit or Categorical Zero Discharge Permit until the Industrial User:

a. Completes a new Discharge Authorization Permit application and pays the associated fees.
b. Requests in writing that the existing Discharge Authorization Permit or Categorical Zero Discharge Permit be reinstated or reissued.
c. Identifies the steps taken to correct any violation that led to the suspension or termination of the existing discharge authorization permit categorical zero discharge permit.
d. Upon reviewing all of the required information provided, the Commission shall decide whether the Industrial User's request shall be approved.

806.6 Requests for reconsideration

806.6.1 Time limit. Requests for reconsideration of any limitation, condition, or other requirement contained in a Discharge Authorization Permit or Categorical Zero Discharge Permit shall be filed within 15 days from the issuance of the Discharge Authorization Permit or Categorical Zero Discharge Permit, provided such request does not create a violation of any existing applicable requirements, standards, laws, or rules and regulations. The filing of a request by the Industrial User for a Discharge Authorization Permit or Categorical Zero Discharge Permit modification, suspension, or termination, or a notification of planned changes or anticipated noncompliance does not stay any Discharge Authorization Permit or Categorical Zero Discharge Permit condition.

806.6.2 Submission of request. Any person seeking reconsideration of a Discharge Authorization Permit or Categorical Zero Discharge Permit limitation, condition, or other requirement shall submit a request for reconsideration in writing. the request shall be addressed to the Regulatory Services Division and shall state in detail the limitation, condition, or other requirement of the Discharge Authorization Permit or Categorical Zero Discharge Permit objected to, all reasons for the objection and the proposed alternative, if any.

806.6.3 Failure to file on time. Failure to file a request for reconsideration within the time specified in this section shall be deemed a waiver of the right to challenge or appeal a Discharge Authorization Permit or Categorical Zero Discharge Permit limitation, condition, or other requirement.

806.6.4 Final decision. The decision of the Chief Code Official or their designated agent on a request for reconsideration, permit modification or issuance of a Discharge Authorization Permit or Categorical Zero Discharge Permit shall be final and binding upon the parties.

806.6.5 Final denial. If the Commission fails to reach a decision on a request within 30-days from the date the request is filed, the failure shall be deemed a final denial of the request.

806.7 Transferability. Discharge Authorization Permits and Categorical Zero Discharge Permits shall be issued to a specific user for a specific operation and shall not be reassigned, transferred, or sold to a new owner, new user, different premises, or a new or changed operation without the prior written approval of the Commission. The Commission determines the effective date of the transfer through the modification of the permit.

806.7.1 Advanced notice. Discharge Authorization Permits and Categorical Zero Discharge Permits may be transferred to a new owner or operator only if the permittee gives at least 30 days advance notice to the Commission, and the Commission approves the Permit transfer. The notice to the Commission shall include a written certification by the new owner or operator which:

a. States that the new owner or operator or both have no immediate intent to change the facility's operations and processes.
b. **[**Requested effective date of transfer**]IDENTIFIES THE SPECIFIC DATE ON WHICH THE TRANSFER IS TO OCCUR**.
c. Acknowledges full responsibility for complying with the existing Discharge Authorization Permit or Categorical Zero Discharge Permit.

806.7.2 Failure to provide advanced notice. Failure to provide advance notice of a transfer shall render the Discharge Authorization Permit or the Categorical Zero Discharge Permit void as of the date of facility transfer.

806.8 Discharge Authorization Permit and Categorical Zero Discharge Permit; re-issuance. An Industrial User with an expiring Discharge Authorization Permit or Categorical Zero Discharge Permit shall apply for a new permit by submitting a complete Discharge Authorization Permit application at least 90 days before the expiration of the Industrial User's existing Discharge Authorization Permit or Categorical Zero Discharge Permit. Renewal of the Discharge Authorization Permit or Categorical Zero Discharge Permit shall be contingent on payment of the permit renewal fee, and compliance with the terms, conditions and limitations of the existing Discharge Authorization Permit or Categorical Zero Discharge Permit.

806.9 Discharge Authorization Permit or Categorical Zero Discharge Permit; new Industrial User. Any Industrial User required to obtain a Discharge Authorization Permit who proposes to begin discharging into the Commission's sewer system,

shall submit the required Discharge Authorization Permit Application. A complete application for the Discharge Authorization Permit shall be submitted to the Commission at least 90 days before the date the discharge is intended to start.

806.10 Categorical Zero Discharge Permit; New Zero Discharging Categorical Industrial User. Any Industrial User required to obtain a Categorical Zero Discharge Permit shall submit the required Discharge Authorization Permit Application. A complete application shall be submitted to the Commission at least 90 days before the date the user intends to connect to the Commission's sewer system.

SECTION 807 RIGHT OF ENTRY

807.1 Investigation authority

807.1.1 Scope of duties. Employees or agents of the Commission shall have the right to enter and inspect any properties, buildings and premises in the Sanitary District or in those portions of Montgomery and Prince George's Counties outside of the Sanitary District, while in the pursuit of their official duties cited in this Code including: Inspecting, monitoring, reviewing records, copying records, setting up monitoring or measuring equipment, or any other actions necessary to determine compliance with this Code. Commission personnel shall have the right to document locations, processes, conditions or equipment, at an Industrial User's facility through the use of photographs or video cameras or at the discretion of the Commission, require the Industrial User to supply such documentation.

807.1.2 Inspections. Inspections of facilities shall be performed by the Code Official[, employees of the Commission, or its agents as deemed necessary by the Commission]. Inspections may be performed anytime, **INCLUDING WHEN** the facility is in operation, discharging or has a potential to discharge.

807.1.3 MONITORING. MONITORING OR SAMPLING OF INDUSTRIAL USER'S WASTEWATER SHALL BE PERFORMED BY THE CODE OFFICIAL. THE COMMISSION SHALL HAVE THE RIGHT TO SET UP MONITORING OR SAMPLING EQUIPMENT ON THE INDUSTRIAL USER'S PROPERTY OR TO REQUIRE THE INSTALLATION OF SUCH DEVICES AS NECESSARY TO CONDUCT SAMPLING OR METERING OF THE INDUSTRIAL USER'S OPERATIONS OR BOTH.

[807.1.3]807.1.4 Identification and entry. Where an Industrial User has security measures or safety procedures in force that require proper identification and clearance or special protective equipment before entry can be gained into the premises, the Industrial User shall make necessary arrangements at its own expense, to enable Commission employees, their agents, the State or EPA entry without delay for the purposes of performing their official duties.

[807.1.4]807.1.5 Termination of services. Failure to allow [permit inspections on demand]**ENTRY OR FACILITY ACCESS TO CODE OFFICIAL FOR THE PURPOSE OF DETERMINING COMPLIANCE WITH THIS CODE** shall be a violation of these regulations and may prompt the termination of water or sewer service or both.

[807.1.5]807.1.6 Jurisdictional coordination. Joint activities as indicated in Section 807.1.1 between Commission employees and employees of outside jurisdictions, State or Federal agencies may be conducted on any private premise and into any building that discharges ultimately to the outside jurisdiction or is subject to inspection by other State or Federal Regulatory agencies.

[807.1.6]807.1.7 Intimidation or obstruction. Industrial Users shall not initiate or permit any action which harasses, intimidates, obstructs or threatens Commission employees or their agents in the performance of their official duties.

SECTION 808 REPORTING REQUIREMENTS

808.1 Submission of required information.

808.1.1 Documentation. Upon request of the Commission, any discharger or potential discharger of industrial wastes into the Commission's sewer system shall submit plans, reports, questionnaires, notices, analytical data, or any other information necessary to evaluate waste discharge characteristics and ensure compliance with these regulations, and Federal and State pretreatment requirements or standards. These documents, as outlined above or as specified in 40 CFR 403.12, shall be completed in a manner as approved by the Commission and returned in a time frame as specified in 40 CFR 403.12 or, in the absence of such specification, in a time frame as directed by the Commission. All information submitted in order to meet the above pretreatment requirements shall be signed by an authorized representative, as well as include the certification statement contained in 40 CFR 403.6(a)(2)(ii) when applicable. Analytical results associated with the required reports shall be based upon data obtained through appropriate sampling and analysis performed during the period covered by the report, which data are representative of conditions occurring during the reporting period.

808.1.2 Process changes. Industrial Users shall immediately report any process changes or modifications that alter the characteristics of any industrial discharge to the Commission. Failure to report process changes or modifications to the Commission shall be a violation of the Code.

808.1.3 Record preservation. Industrial Users shall retain and preserve any records, books, documents, memoranda, reports, correspondence, computer files, and summaries of these materials relating to testing, internal or external monitoring, sampling, investigative and chemical analyses made by or on behalf of the Industrial User in connection with its discharge (including documentation associated with Best Management Practices) for a minimum of 3 years from the date of drafting or preparation. All records that pertain to matters that are the subject of special orders, or any other enforcement or litigation activities brought by the Commission, shall be retained and preserved until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired. Such materials shall be made available to Commission personnel upon request.

808.1.4 Compliance schedule. Industrial Users installing a pretreatment technology or taking any other series of activities necessary to obtain and maintain compliance with a pretreatment standard or requirement may be required to follow a compliance schedule developed by the Commission, or the Industrial User as approved by the Commission. Compliance schedules shall contain increments of progress in the form of activities to be performed and dates for the commencement and completion of these activities leading to the construction and operation of the pretreatment technology or completion of other required activities to bring the Industrial User into compliance. Failure to initiate or complete the required activities to comply with the milestone and date elements of a compliance schedule shall be a violation of this Code.

808.1.5 Owner's expense. All pretreatment technologies shall be installed, operated and maintained at the owner's expense.

808.1.6 Documentation approval. Where pretreatment is necessary to conform to the requirements of the Commission, plans, procedures and complete specifications for the proposed work shall be submitted for review and approval by the Commission. Neither submission of plans nor issuance of a permit shall be construed to indicate that the Commission in any way vouches for, or warrants the capabilities of, any such pretreatment system or device, plans, specifications or data in any manner. The review and approval of plans, procedures or other information required by the Commission shall in no way relieve the Industrial User from the responsibility for modifying its pretreatment facilities to achieve compliance with the Commission's limitations. Industrial Users shall not make any alterations to pretreatment facilities without prior written notice to and approval of the Commission.

808.1.7 Public information. Records concerning Industrial Users and the nature of their discharges shall be public information unless the Industrial User declares and is able to demonstrate to the satisfaction of the Commission, that the release of the information would divulge information, processes, or methods of operation entitled to protection as trade secrets pursuant to the requirements of the Maryland Public Information Act. Any such declaration shall be made at the time of the submission of the information or data to the Commission. Effluent data shall not be treated as confidential information. When requested by the Industrial User furnishing a report, the portions of a report which might disclose trade secrets or secret processes shall not be made available for inspection by the public. Confidential portions of a report shall be available for use by the State or EPA in judicial review or enforcement proceedings involving the Industrial User furnishing the report.

808.1.8 BASELINE MONITORING REPORTS. WITHIN EITHER ONE HUNDRED EIGHTY (180) DAYS AFTER THE EFFECTIVE DATE OF A CATEGORICAL PRETREATMENT STANDARD, OR THE FINAL ADMINISTRATIVE DECISION ON A CATEGORY DETERMINATION UNDER 40 CFR 403.6(A)(4), WHICHEVER IS LATER, EXISTING CATEGORICAL INDUSTRIAL USERS CURRENTLY DISCHARGING TO OR SCHEDULED TO DISCHARGE TO THE COMMISSION SHALL SUBMIT TO THE COMMISSION A REPORT WHICH CONTAINS THE INFORMATION LISTED IN BELOW. AT LEAST NINETY (90) DAYS BEFORE COMMENCEMENT OF THEIR DISCHARGE, NEW SOURCES, AND SOURCES THAT BECOME CATEGORICAL INDUSTRIAL USERS AFTER THE PROMULGATION OF AN APPLICABLE CATEGORICAL STANDARD, SHALL SUBMIT TO THE COMMISSION A REPORT WHICH CONTAINS THE INFORMATION LISTED BELOW. A NEW SOURCE SHALL ALSO REPORT THE METHOD OF PRETREATMENT IT INTENDS TO USE TO MEET APPLICABLE CATEGORICAL STANDARDS. A NEW SOURCE ALSO SHALL AND GIVE ESTIMATES OF ITS ANTICIPATED FLOW AND QUANTITY OF POLLUTANTS TO BE DISCHARGED.

808.1.8.1 IDENTIFYING INFORMATION. THE INDUSTRIAL USER SHALL SUBMIT THE NAME AND ADDRESS OF THE FACILITY INCLUDING THE NAME OF THE OPERATOR AND OWNERS;

808.1.8.2 PERMITS. THE INDUSTRIAL USER SHALL SUBMIT A LIST OF ANY ENVIRONMENTAL CONTROL PERMITS HELD BY OR FOR THE FACILITY;

808.1.8.3 DESCRIPTION OF OPERATIONS. THE INDUSTRIAL USER SHALL SUBMIT A BRIEF DESCRIPTION OF THE NATURE, AVERAGE RATE OF PRODUCTION, AND STANDARD INDUSTRIAL CLASSIFICATION OF THE OPERATION(S) CARRIED OUT BY SUCH INDUSTRIAL USER. THIS DESCRIPTION SHOULD INCLUDE A SCHEMATIC PROCESS DIAGRAM WHICH INDICATES POINTS OF DISCHARGE TO THE COMMISSION FROM THE REGULATED PROCESSES;

808.1.8.4 FLOW MEASUREMENT. THE INDUSTRIAL USER SHALL SUBMIT INFORMATION SHOWING THE MEASURED AVERAGE DAILY AND MAXIMUM DAILY FLOW, IN GALLONS PER DAY, TO THE COMMISSION FROM EACH OF THE FOLLOWING:

- **A. REGULATED PROCESS STREAMS; AND**
- **B. OTHER STREAMS AS NECESSARY TO ALLOW USE OF THE COMBINED WASTESTREAM FORMULA OF 40 CFR 403.6(E). THE COMMISSION MAY ALLOW FOR VERIFIABLE ESTIMATES OF THESE FLOWS WHERE JUSTIFIED BY COST OR FEASIBILITY CONSIDERATIONS.**

808.1.8.5 MEASUREMENT OF POLLUTANTS.

- **A. THE INDUSTRIAL USER SHALL IDENTIFY THE PRETREATMENT STANDARDS APPLICABLE TO EACH REGULATED PROCESS;**
- **B. IN ADDITION, THE INDUSTRIAL USER SHALL SUBMIT THE RESULTS OF SAMPLING AND ANALYSIS IDENTIFYING THE NATURE AND CONCENTRATION (OR MASS, WHERE REQUIRED BY THE STANDARD OR THE COMMISSION) OF REGULATED POLLUTANTS IN THE DISCHARGE FROM EACH REGULATED PROCESS. BOTH DAILY MAXIMUM AND AVERAGE CONCENTRATION (OR MASS, WHERE REQUIRED) SHALL BE REPORTED. THE SAMPLE SHALL BE REPRESENTATIVE OF DAILY OPERATIONS. IN CASES WHERE THE STANDARD REQUIRES COMPLIANCE WITH A BEST MANAGEMENT PRACTICE OR POLLUTION PREVENTION ALTERNATIVE, THE INDUSTRIAL USER SHALL SUBMIT DOCUMENTATION AS REQUIRED BY THE COMMISSION OR THE APPLICABLE STANDARDS TO DETERMINE COMPLIANCE WITH THE STANDARD;**
- **C. THE INDUSTRIAL USER SHALL TAKE A MINIMUM OF ONE REPRESENTATIVE SAMPLE TO COMPILE THAT DATA NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS SECTION;**
- **D. SAMPLES SHOULD BE TAKEN IMMEDIATELY DOWNSTREAM FROM PRETREATMENT FACILITIES IF SUCH EXIST OR IMMEDIATELY DOWNSTREAM FROM THE REGULATED PROCESS IF NO PRETREATMENT EXISTS. IF OTHER WASTEWATERS ARE MIXED WITH THE REGULATED WASTEWATER BEFORE PRETREATMENT THE USER SHOULD MEASURE THE FLOWS AND CONCENTRATIONS NECESSARY TO ALLOW USE OF THE COMBINED WASTESTREAM FORMULA OF 40 CFR 403.6(E) IN ORDER TO EVALUATE COMPLIANCE WITH THE PRETREATMENT STANDARDS. WHERE AN ALTERNATE CONCENTRATION OR MASS LIMIT HAS BEEN CALCULATED IN ACCORDANCE WITH 40 CFR 403.6(E) THIS ADJUSTED LIMIT ALONG WITH SUPPORTING DATA SHALL BE SUBMITTED TO THE COMMISSION;**
- **E. SAMPLING AND ANALYSIS SHALL BE PERFORMED IN ACCORDANCE WITH THE TECHNIQUES PRESCRIBED IN 40 CFR PART 136 AND AMENDMENTS THERETO. WHERE 40 CFR PART 136 DOES NOT CONTAIN SAMPLING OR ANALYTICAL TECHNIQUES FOR THE POLLUTANT IN QUESTION, OR WHERE THE ADMINISTRATOR DETERMINES THAT THE PART 136 SAMPLING AND ANALYTICAL TECHNIQUES ARE INAPPROPRIATE FOR THE POLLUTANT IN QUESTION, SAMPLING AND ANALYSIS SHALL BE PERFORMED BY USING VALIDATED ANALYTICAL METHODS OR ANY OTHER APPLICABLE SAMPLING AND ANALYTICAL PROCEDURES, INCLUDING PROCEDURES SUGGESTED BY THE COMMISSION OR OTHER PARTIES, APPROVED BY THE ADMINISTRATOR;**
- **F. THE COMMISSION MAY ALLOW THE SUBMISSION OF A BASELINE REPORT WHICH UTILIZES ONLY HISTORICAL DATA SO LONG AS THE DATA PROVIDES INFORMATION SUFFICIENT TO DETERMINE THE NEED FOR INDUSTRIAL PRETREATMENT MEASURES; AND**
- **G. THE BASELINE REPORT SHALL INDICATE THE TIME, DATE AND PLACE, OF SAMPLING, AND METHODS OF ANALYSIS, AND SHALL CERTIFY THAT SUCH SAMPLING AND ANALYSIS IS REPRESENTATIVE OF NORMAL WORK CYCLES AND EXPECTED POLLUTANT DISCHARGES TO THE COMMISSION.**

808.1.8.6 CERTIFICATION. A STATEMENT, REVIEWED BY AN AUTHORIZED REPRESENTATIVE OF THE INDUSTRIAL USER AND CERTIFIED TO BY A QUALIFIED PROFESSIONAL, INDICATING WHETHER PRETREATMENT STANDARDS ARE BEING MET ON A CONSISTENT BASIS, AND, IF NOT, WHETHER ADDITIONAL OPERATION AND MAINTENANCE OR ADDITIONAL PRETREATMENT OR BOTH IS REQUIRED FOR THE INDUSTRIAL USER TO MEET THE PRETREATMENT STANDARDS AND REQUIREMENTS; AND

808.1.8.7 COMPLIANCE SCHEDULE. IF ADDITIONAL PRETREATMENT OR OPERATION AND MAINTENANCE OR BOTH WILL BE REQUIRED TO MEET THE PRETREATMENT STANDARDS; THE SHORTEST SCHEDULE BY WHICH THE INDUSTRIAL USER WILL PROVIDE SUCH ADDITIONAL PRETREATMENT OR OPERATION AND MAINTENANCE OR BOTH. THE COMPLETION DATE IN THIS SCHEDULE SHALL NOT BE LATER THAN THE COMPLIANCE DATE ESTABLISHED FOR THE APPLICABLE PRETREATMENT STANDARD;

808.1.9 REPORTS ON COMPLIANCE WITH CATEGORICAL PRETREATMENT STANDARD DEADLINE. WITHIN 90 DAYS FOLLOWING THE DATE FOR FINAL COMPLIANCE WITH APPLICABLE CATEGORICAL PRETREATMENT STANDARDS OR IN THE CASE OF A NEW SOURCE FOLLOWING COMMENCEMENT OF THE INTRODUCTION OF WASTEWATER INTO THE COMMISSION'S SANITARY SEWER SYSTEM, ANY INDUSTRIAL USER SUBJECT TO PRETREATMENT STANDARDS AND REQUIREMENTS SHALL SUBMIT TO THE COMMISSION A REPORT CONTAINING THE INFORMATION DESCRIBED IN SECTIONS 808.1.8.4, 808.1.8.5, AND 808.1.8.6. FOR INDUSTRIAL USERS SUBJECT TO EQUIVALENT MASS OR CONCENTRATION LIMITS ESTABLISHED BY THE COMMISSION IN ACCORDANCE WITH THE PROCEDURES IN 40 CFR 403.6(C), THIS REPORT SHALL CONTAIN A REASONABLE MEASURE OF THE INDUSTRIAL USER'S LONG TERM PRODUCTION RATE. FOR ALL OTHER INDUSTRIAL USERS SUBJECT TO CATEGORICAL PRETREATMENT STANDARDS EXPRESSED IN TERMS OF ALLOWABLE POLLUTANT DISCHARGE PER UNIT OF PRODUCTION (OR OTHER MEASURE OF OPERATION), THIS REPORT SHALL INCLUDE THE INDUSTRIAL USER'S ACTUAL PRODUCTION DURING THE APPROPRIATE SAMPLING PERIOD.

[808.1.8]808.1.10 Periodic reports. [All Significant Industrial Users and Zero Discharge Categorical]**PERMITTED** Industrial Users shall submit to the Commission at least once every 6 months on dates specified by the Commission, reports indicating flows, and the nature and concentration of pollutants in the discharge in a format prescribed in the Discharge Authorization Permit or **[**a] Categorical Zero Discharge Permit. Specified standards or the Commission itself may require these reports to be filed more frequently. In addition, the Commission may require other users to submit periodic reports. In cases where the local limit or **[**Pretreatment Standard]**PRETREATMENT STANDARD** requires compliance with a Best Management Practice (or pollution prevention alternative), the User shall submit documentation required by the Commission or the **[**Pretreatment Standard]**PRETREATMENT STANDARD** necessary to determine the compliance status of the User.

[808.1.8.1]808.1.10.1 Additional sampling results. If a Significant Industrial User conducts additional monitoring beyond permit requirements at the Industrial Waste Monitoring Point (IWMP) designated by the Commission, the user shall submit the results of the additional monitoring to the Commission by the due date of the next periodic report submission.

808.1.11 CATEGORICAL PERIODIC REPORTS. ANY INDUSTRIAL USER SUBJECT TO A CATEGORICAL PRETREATMENT STANDARD AFTER THE COMPLIANCE DATE OF SUCH PRETREATMENT STANDARD, OR, IN THE CASE OF A NEW SOURCE, AFTER COMMENCEMENT OF THE DISCHARGE INTO THE COMMISSION, SHALL SUBMIT TO THE COMMISSION AT LEAST ONCE EVERY SIX MONTHS, UNLESS REQUIRED MORE FREQUENTLY IN THE PRETREATMENT STANDARD OR BY THE COMMISSION OR THE APPROVAL AUTHORITY, A REPORT INDICATING THE NATURE AND CONCENTRATION OF POLLUTANTS IN THE EFFLUENT WHICH ARE LIMITED BY SUCH CATEGORICAL PRETREATMENT STANDARDS. IN ADDITION, THIS REPORT SHALL INCLUDE A RECORD OF MEASURED OR ESTIMATED AVERAGE AND MAXIMUM DAILY FLOWS FOR THE REPORTING PERIOD FOR THE DISCHARGE REPORTED IN 40 CFR 403.12(B)(4) EXCEPT THAT THE COMMISSION MAY REQUIRE MORE DETAILED REPORTING OF FLOWS. IN CASES WHERE THE PRETREATMENT STANDARD REQUIRES COMPLIANCE WITH A BEST MANAGEMENT PRACTICE (OR POLLUTION PREVENTION ALTERNATIVE), THE INDUSTRIAL USER SHALL SUBMIT DOCUMENTATION REQUIRED BY THE COMMISSION OR THE PRETREATMENT STANDARD NECESSARY TO DETERMINE THE COMPLIANCE STATUS OF THE INDUSTRIAL USER.

[808.1.9]808.1.12 Slug control plan. The Commission may require any Industrial User to develop and implement a slug control plan. However, the Commission shall evaluate whether each Significant Industrial User needs a plan or other action to control slug discharges within 1 year of the regulatory changes or within 1 year of identifying an Industrial User as significant. Significant Industrial Users shall be required to notify the Commission immediately of any changes at their facility affecting potential for a slug discharge. Any Industrial User required to develop and implement a slug control plan shall submit a plan which addresses, at a minimum, the following:

- **a.** Description of discharge practices, including non-routine batch discharges.
- **b.** Description of stored chemicals.
- **c.** Procedures for immediately notifying the Commission of any accidental or slug discharge. Such notification shall also be given for any discharge which would violate any of the prohibited discharges cited in Section 804 of this Code**, WITH PROCEDURES FOR FOLLOW-UP WRITTEN NOTIFICATION WITHIN FIVE DAYS**.

d. Procedures to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing pollutants (including inorganic and organic chemicals) and measures and equipment for emergency response.

e. The Industrial User shall permanently post a notice in a prominent place advising all employees to notify the Commission in the event of a dangerous discharge for which a notification is required.

f. Employers shall advise all appropriate employees who may cause or be adversely affected by such a discharge of the emergency notification procedure.

[808.1.10]808.1.13 Notice of potential problems. All categorical and noncategorical Significant Industrial Users shall notify the Commission immediately of all discharges that could cause problems to the POTW, including any slug loadings.

[808.1.11]808.1.14 Hazardous waste discharge. Any User who commences the discharge of hazardous waste shall notify the Commission, the EPA Regional Waste Management Division Director, and State hazardous waste authorities, in writing, of any discharge into the POTW of a substance which, if otherwise disposed of, would be a hazardous waste under 40 CFR Part 261. This provision does not create a right to discharge any substance not otherwise permitted to be discharged by this Code, a permit issued thereunder, or any applicable Federal or State law.

[808.1.11.1]808.1.14.1 Notification. Notification must include the name of the hazardous waste as set forth in 40 CFR Part 261, the EPA hazardous waste number, and the type of discharge (continuous, batch, or other). If the User discharges more than one hundred (100) kilograms of such waste per calendar month to the POTW, the notification also shall contain the following information to the extent such information is known and readily available to the User: an identification of the hazardous constituents contained in the wastes, an estimation of the mass and concentration of such constituents in the wastestream discharged during that calendar month, and an estimation of the mass of constituents in the wastestream expected to be discharged during the following twelve (12) months. All notifications must take place no later than one hundred and eighty (180) days after the discharge commences. Any notification under this paragraph need be submitted only once for each hazardous waste discharged. However, notifications of changed conditions must be submitted meeting the criteria of Paragraph 808.1.2. The notification requirement in this paragraph does not apply to pollutants already reported under the reporting requirements of 40 CFR 403.12(b), (d), and (e).

[808.1.11.2]808.1.14.2 Exemptions. Dischargers are exempt from the requirements of Paragraph [808.1.9]**808.1.12**, above, during a calendar month in which they discharge no more than fifteen (15) kilograms of hazardous wastes, unless the wastes are acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e). Discharge of more than fifteen (15) kilograms of non-acute hazardous wastes in a calendar month, or of any quantity of acute hazardous wastes as specified in 40 CFR 261.30(d) and 261.33(e), requires a one-time notification. Subsequent months during which the User discharges more than such quantities of any hazardous waste do not require additional notification.

[808.1.11.3]808.1.14.3 New substances. Pursuant to the adoption of new regulatory requirements under Section 3001 of the U.S. Resource Conservation and Recovery Act identifying additional characteristics of hazardous waste or listing any additional substance as a hazardous waste, the User must notify the Commission, the EPA Regional Waste Management Waste Division Director, and State hazardous waste authorities of the discharge of such substance within ninety (90) days of the effective date of such regulations.

[808.1.11.4]808.1.14.4 Certification. In the case of any notification made under Paragraph [808.1.11.1]**808.1.14.1**, the User shall certify that it has a program in place to reduce the volume and toxicity of hazardous wastes generated to the degree it has determined to be economically practical.

[808.1.12]808.1.15 Violation reporting timeframe. In the event self-monitoring indicates a violation of one or more parameters or pollutants as listed in Table 804.1.9, the Industrial User shall report the violation to the Commission within 24 hours of becoming aware of the violation. This reporting requirement shall not be satisfied by means other than direct communication with Commission personnel (i.e., telephone recording system messages shall not satisfy this notification requirement). The violation data and the explanation for the violation shall be submitted within 7 days of becoming aware of the violation.

[808.1.12.1]808.1.15.1 Resampling requirements. The Industrial User shall also repeat the sampling and analysis and submit the results of the repeat analysis to the Commission within 30 days after becoming aware of the violation. The Industrial User may not be required to perform repeat sampling if the Commission performs sampling at the Industrial User at a frequency of at least once per month for the pollutant(s) in violation or if the Commission

performs sampling at the Industrial User between the time when the initial sampling was conducted and the time when the user or the Commission receives the results of the initial sampling.

SECTION 809 SAMPLING AND ANALYSES

809.1 Monitoring point. [Dischargers of industrial wastes into the Commission's sewerage system shall be required to construct and maintain at their expense a suitable monitoring structure]**INDUSTRIAL USERS SHALL INSTALL EQUIPMENT, AS SPECIFIED BY THE COMMISSION, FOR THE PURPOSE OF MEASURING FLOW OR WASTEWATER CHARACTERISTICS OR ANY OTHER EQUIPMENT NECESSARY TO DETERMINE COMPLIANCE WITH THESE REGULATIONS. THIS INCLUDES THE INSTALLATION OF SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES** downstream from any pretreatment technology, process, storage facility, or other approved works, to facilitate observation, measurement, and sampling of wastes. Monitoring structures shall be constructed in a manner and location approved by the Commission that are accessible at all times for sampling. [Industrial Users shall install equipment, as specified by the Commission, for the purpose of measuring flow or wastewater characteristics or any other equipment necessary to determine compliance with these regulations.]**THE INDUSTRIAL USER'S SAMPLING EQUIPMENT, MONITORING EQUIPMENT, AND MONITORING STRUCTURES SHALL BE MAINTAINED AT ALL TIMES IN A SAFE AND PROPER OPERATING CONDITION BY THE INDUSTRIAL USER AT ITS OWN EXPENSE. ALL DEVICES USED TO MEASURE WASTEWATER FLOW AND QUALITY SHALL BE PROPERLY CALIBRATED ACCORDING TO THE MANUFACTURER SPECIFICATIONS TO ENSURE THEIR ACCURACY**. The Commission shall reserve the right to require restricted discharges during peak flows, designate certain wastewater to specific sewers; relocate or consolidate or relocate and consolidate points of discharge; **AND** separate domestic and industrial waste streams.

809.2 Monitoring point alternative. Except as stated in a discharge authorization permit, in the event that no monitoring facility is required, the monitoring point shall be considered to be the nearest downstream manhole or the discharge point inside the Industrial User's facility that are representative of the Industrial User's discharge.

809.3 Sampling and Analysis Procedures. All analyses, including sampling techniques, submitted in support of any application, report, evidence or required by any permit or order shall be performed in accordance with 40 CFR Part 136 and amendments thereto. Where 40 CFR Part 136 does not include sampling or analytical techniques for the pollutant in question, or where the Administrator determines that the Part 136 sampling and analytical techniques are inappropriate for the pollutant in question, sampling and analyses shall be performed using validated analytical methods or any other sampling and analytical procedures, including procedures suggested by the Commission or other parties, approved by the Administrator.

809.3.1 Grab sample. A sample taken from a wastestream without regard to the flow in the wastestream and over a time not to exceed 15 minutes. Grab samples shall be used for pH, cyanide, total phenols, oil and grease, sulfide, and volatile organic compounds. Using protocols (including appropriate preservation) specified in 40 CFR Part 136 and appropriate EPA guidance, multiple grab samples collected during the same [24-hour] calendar day may be composited [prior to]BEFORE the analysis as follows: For cyanide, total phenols, and sulfides the samples may be composited in the laboratory or in the field; for volatile organics and oil and grease the samples may be composited in the laboratory.

809.3.2 Composite sample. A sample formed by mixing discrete, individual samples taken at a continuous proportion to the discharge flow or at periodic points in time. For pollutants other than those identified in Paragraph 809.3.1, [24-hour] composite samples must be obtained through flow-proportional composite sampling techniques, unless time-proportional composite sampling or grab sampling is authorized by the Commission. Where time-proportional composite sample or grab sampling is authorized by the Commission, the samples must be representative of the discharge. The collection of discrete, individual samples for a composite sample [cannot exceed 24 hours in any given]**SHALL BE LIMITED TO WITHIN A SINGLE** calendar day.

SECTION 810 PENALTIES

810.1 Prosecution. Any violator of these Regulations may be prosecuted by the Commission under the provisions of Section 21, Chapter 122 of the Acts of 1918 of the General Assembly of the State of Maryland and subsequent amendments thereto. Each day of a violation shall constitute a separate offense, and applicable penalties shall be applied to each offense.

810.2 Service termination. The Commission may terminate water and sewer service to any premises in order to prevent any actual or threatened discharge of any wastes that present an endangerment to the POTW, the environment, or to the health and welfare of any person.

810.3 False representation. Persons who make any false statements, representation, or certification in any application, record, plan, or other document filed or required to be maintained pursuant to these regulations; or who falsifies, tampers

with, or knowingly renders inaccurate any monitoring device or method required under these regulations; or who withholds, omits, or fails to report information requested or required; shall be prosecuted.

810.4 Suspension and revocation. Industrial Users subject to the requirements of a Discharge Authorization Permit or a Categorical Zero Discharge Permit may have their Permit suspended or revoked for failure to comply with the requirements contained therein.

810.5 Notice of Violation. In the event an Industrial User violates established limits, reporting requirements, notification requirements, or other pretreatment requirements, a written documentation of the violation shall be issued to the user **[**(e.g. Notice of Violation, letter, directive, etc.)**]**.

810.6 Monetary. The Commission may assess administrative penalties up to $1,000 for each violation stated in an Administrative Order, not to exceed $50,000. A civil citation with associated fines as well may be issued for violations of any provision of this Code in accordance with the Commission's Enforcement Response Plan.

SECTION 811 PUBLIC NOTICE OF VIOLATIONS

811.1 General. The Commission shall publish annually in a newspaper of general circulation that provides meaningful public notice within the jurisdiction served by the Commission a list of Industrial Users who by definition are in significant noncompliance during the previous 12 months with applicable pretreatment requirements.

811.2 Conditions for noncompliance. For the purpose of this Section, a Significant Industrial User (or any Industrial User which violates Sections 811.2.3, 811.2.4, and 811.2.8) shall be in significant noncompliance if its violation meets 1 or more of the following criteria:

811.2.1 Exceeding discharge limits. Chronic violations of wastewater discharge limits, defined here as those in which 66 percent or more of all of the measurements taken during a 6-month period exceed (by any magnitude) a numeric **[**Pretreatment Standard**]PRETREATMENT STANDARD** or **[**Requirement**]REQUIREMENT**, including instantaneous limits, as defined by 40 CFR 403.3(l).

811.2.2 Exceeding technical review criteria. Technical Review Criteria (TRC) violations, defined here as those in which 33 percent or more of all the measurements for each pollutant parameter taken during a 6-month period equal or exceed the product of the numeric **[**Pretreatment Standard**]PRETREATMENT STANDARD** or **[**Requirement**]REQUIREMENT** including instantaneous limits, as defined by 40 CFR 403.3(l) multiplied by the applicable TRC (TRC=1.4 for BOD, TSS, fats, oil and grease, and TRC=1.2 for all other pollutants except pH).

811.2.3 POTW interference and pass-through. Any other violation of a pretreatment **[**effluent limit**]STANDARD OR REQUIREMENT AS DEFINED BY 40 CFR 403.3(L)** (daily maximum **[**or longer-term**], LONG-TERM** average**, INSTANTANEOUS LIMIT, OR NARRATIVE STANDARD**) that the Commission determines has caused, alone or in combination with other discharges, Interference or Pass-Through (including endangering the health of POTW personnel or the general public).

811.2.4 Endangerment. Any discharge of a pollutant that has caused imminent endangerment to human health, welfare, or to the environment or has resulted in the Commission's exercise of its emergency authority under 40 CFR 403.8(f)(1)(vi)(B) to halt or prevent such a discharge.

811.2.5 Failure to meet compliance dates. Failure to meet, within 90 days after the schedule date, a compliance schedule milestone contained in a local control mechanism or enforcement order for starting construction, completing construction, or attaining final compliance.

811.2.6 Failure to submit documentation. Failure to provide within 30 days after the due date, required reports such as baseline monitoring reports, 90-day compliance reports, periodic self-monitoring reports, certification statements, plans, representative data and reports on compliance with compliance schedules or other information requested by the Commission; or failure to notify the Commission of modifications to processes, wastewater constituents, and pretreatment systems.

811.2.7 Accurate reporting. Failure to accurately report noncompliance.

811.2.8 Other Violations. Any other violation or group of violations, which may include a violation of Best Management Practices, which the Commission determines may adversely affect the operation or implementation of the **[**local**]COMMISSION** pretreatment program.

SECTION 812 LIABILITY FOR EXPENSES

812.1 Repair reimbursement. The property owner, tenant, or Industrial User shall reimburse the Commission for the cost of any work or repair made necessary by the neglect or action of the property owner, tenant, or Industrial User resulting from the discharge of an industrial waste.

812.2 Activity reimbursement. The property owner, tenant, or Industrial User shall reimburse the Commission for all costs associated with investigations, monitoring, analyses, or enforcement actions resulting from any violation of this Code.

SECTION 813 NOTICE

813.1 Immediate notification. In the event of any discharges by accident, negligence, slug loading, or other occurrence which may result in a violation of pretreatment standards, permit conditions, or could cause a problem with the collection systems or treatment processes, the Industrial User shall immediately notify the Commission and any applicable outside jurisdiction, of the incident. The notification shall include location of any discharge, type, concentration and volume of waste, and corrective action being taken.

813.2 Written notification. Within 5 days following an accidental discharge, the User shall submit to the Commission (and any applicable outside jurisdiction) a detailed written report describing the cause of the discharge and the measures to be taken by the User to prevent similar future occurrences. Such notification shall not relieve the User of any expense, loss, damage, or other liability which may be incurred as a result of the discharge, nor shall such notification relieve the User of any fines, civil penalties, or other liability which may be imposed by this Code or other applicable law.

SECTION 814 HAULED WASTES AND WASTE HAULERS

814.1 Applicability. This [subsection]SECTION shall apply to [companies, individuals or partnerships hereinafter referred to as Waste Haulers, engaged in the business of transportation or disposal of domestic wastes or grease food service establishments]WASTE HAULERS AS DEFINED IN SECTION 814.2 AND FSES. [These subsection]THIS SECTION shall also apply to businesses as deemed appropriate by the Commission including [grease interceptor cleaning,] buses[, carpet cleaning] and mobile food service companies.

[The cleaning of grease interceptors within the Commission service area without the appropriate permit shall be prohibited. (Food Service Establishments (FSEs) that self-clean flow-based grease interceptors shall not be required to obtain a permit).]

814.2 Definitions. In addition to the definitions generally applicable to the provisions of this Code (See Chapter 2), and this Chapter (see Section 801.2), the following definitions are specifically applicable to the provisions of this Section 814, Hauled Wastes AND WASTE HAULERS.

"ACCEPTABLE SERVICE AREA" MEANS THE COMBINED AREA SERVED BY DC WATER AND THE WSSD FROM WHICH THE COMMISSION ACCEPTS DOMESTIC WASTE OR GREASY WASTEWATER, THIS INCLUDES MONTGOMERY COUNTY (MD), PRINCE GEORGE'S COUNTY (MD), AND AREAS OF ARLINGTON COUNTY (VA), FAIRFAX COUNTY (VA), LOUDOUN COUNTY (VA), AND THE DISTRICT OF COLUMBIA.

"COMMISSION DISPOSAL SITES" MEANS COMMISSION OWNED SITES DESIGNATED TO BE USED BY PERMITTED WASTE HAULERS TO DISPOSE OF PERMITTED HAULED WASTE, INCLUDING MUDDY BRANCH ROAD, TANGLEWOOD DRIVE, OR RITCHIE ROAD DISPOSAL SITES.

DISCHARGE STRUCTURE" MEANS A DEDICATED DISPOSAL PORT AND THE SURROUNDING SLOPED SURFACES AT A COMMISSION DISPOSAL SITE.

"**Holding tank**" means a **STATIONARY** sealed tank that collects wastewater through an inlet, which temporarily stores the effluent for removal and transportation to a treatment facility. Commonly used for households, job trailers, portable restroom trailers and similar uses.

"**Non-domestic [wastewater]WASTE**" means the liquid wastes from industrial or commercial processes, trade or business; distinct from domestic wastes[, including the contents of grease abatement systems at FSEs]. Wastes from wastewater treatment plants or non-domestic sources **INCLUDING NON-DOMESTIC WASTE FROM OIL/WATER SEPERATORS, INTERCEPTORS, BREWERIES, WINERIES, DISTILLERIES, AND MEADERIES** shall not be discharged at [the designated]COMMISSION disposal sites unless specifically authorized in writing by the Commission. The contents of grease abatement systems at FSEs are considered domestic wastewater for the purposes of this section.

[“**Point of discharge**” means a discharge of waste at any place in the sewer collection system other than those designated by the Commission shall be prohibited.]

“PUMP AND RETURN” MEANS THE PUMPING OF WASTE FROM AN INTERCEPTOR AND THEN RETURNING THE EFFLUENT TO THE INTERCEPTOR AFTER SEPARATION OF WASTE AND EFFLUENT IN THE HAULERS TRUCK.

“PUMP-OUT” MEANS THE PUMPING AND REMOVAL OF WASTE FROM A SEPTIC TANK OR A GREASE INTERCEPTOR FOR THE PURPOSE OF DISPOSAL.

“**Septic tank**” means an underground chamber made of concrete, fiberglass, or plastic through which domestic wastewater flows for basic treatment. Settling and anaerobic processes reduce solids and organics, releasing the treated water into a drainfield where the water percolates underground.

“**Transfer tank**” means a **STATIONARY** tank, vessel, or container in a centralized location used to temporarily store hauled wastes from various sources or locations before being transferred for disposal or to a treatment facility.

“VEHICLE” MEANS A PIECE OF EQUIPMENT THAT HAS A WASTE STORAGE TANK AND IS USED FOR THE TRANSPORTATION OF WASTE, INCLUDING BUSES, RECREATIONAL VEHICLES, TRUCKS WITH AN INTEGRAL WASTE STORAGE TANK OR A WASTE STORAGE TANK TRAILER THAT IS PULLED BY A TRUCK.

“WASTE HAULER” MEANS PERSONS ENGAGED IN THE BUSINESS OF TRANSPORTATION OR DISPOSAL OF DOMESTIC WASTES OR GREASE WITHIN THE ACCEPTABLE SERVICE AREA.

“WASTE HAULER PERMIT” MEANS EITHER A WASTE HAULER DISCHARGE PERMIT OR A WASTE HAULER ZERO DISCHARGE PERMIT.

“WASTE HAULER DISCHARGE PERMIT” MEANS A PERMIT ISSUED BY THE COMMISSION AUTHORIZING A SPECIFIC VEHCILE OWNED BY A WASTE HAULER TO DISCHARGE DOMESTIC WASTES OR GREASE FROM FSES AT COMMISSION DISPOSAL SITES.

“WASTE HAULER ZERO DISCHARGE PERMIT” MEANS A PERMIT ISSUED BY THE COMMISSION AUTHORIZING A SPECIFIC VEHCILE OWNED BY A WASTE HAULER TO CLEAN GREASE INTERCEPTORS WITHIN THE WSSD.

814.3 GENERAL REQUIREMENTS. GENERAL REQUIREMENTS FOR HAULED WASTE AND WASTE HAULERS IS IN SECTIONS 814.3.1 THROUGH 814.3.4.

814.3.1 ACCEPTABLE SERVICE AREA. ONLY DOMESTIC OR GREASY WASTEWATER ORIGINATING FROM THE ACCEPTABLE SERVICE AREA IS ALLOWED TO BE DISCHARGED AT COMMISSION DISPOSAL SITES.

814.3.2 WASTE HAULERS. ALL WASTE HAULERS DISCHARGING HAULED WASTE OR CLEANING GREASE INTERCEPTORS WITHIN THE WSSD SHALL MEET THE STANDARDS AND REQUIREMENTS OF THIS CHAPTER. THE COMMISSION RESERVES THE RIGHT TO REQUIRE APPLICABLE REPORTS AND NOTIFICATIONS, SEE SECTION 813.2.

814.3.3 DISPOSAL SITES. PERMITTED VEHICLES MAY ONLY DISCHARGE WASTE AT COMMISSION DISPOSAL SITES. DISPOSAL AT COMMISSION DISPOSAL SITES IS RESTRICTED TO DOMESTIC WASTES OR GREASE FROM FSES ORIGINATING FROM WITHIN THE ACCEPTABLE SERVICE AREA.

814.3.4 FATS, OIL, AND GREASE WASTES. WASTEWATER CONTAINING FATS, OIL, AND GREASE SHALL ONLY BE DISPOSED OF AT THE MUDDY BRANCH ROAD DISPOSAL SITE.

814.3.5 UNACCEPTABLE DISCHARGES. THE COMMISSION RESERVES THE RIGHT TO REFUSE ACCEPTANCE OF ANY LOAD OF HAULED WASTE. WASTE HAULERS ARE REQUIRED TO IMMEDIATELY CEASE UNLOADING OPERATIONS WHEN INSTRUCTED TO DO SO BY THE COMMISSION.

[814.3]814.4 **Prohibited discharges AND PRACTICES.** All hauled waste disposed at [the waste]**COMMISSION** disposal sites [designated by the Commission] must comply with Section 804 of this Code.

[814.3.1]814.4.1 **Prohibited sanitizers.** The discharge of portable toilet sanitizers containing formaldehyde or 1,4-dichlorobenzene is prohibited.

814.4.2 ACCEPTABLE SERVICE AREA. DISPOSAL OF WASTEWATER ORIGINATING FROM OUTSIDE THE ACCEPTABLE SERVICE AREA AT COMMISSION DISPOSAL SITES IS PROHIBITED.

814.4.3 HYDRAULIC FRACTURING WASTES. THE DISCHARGE OF ANY LIQUIDS ASSOCIATED WITH HYDRAULIC FRACTURING PROCESSES IS PROHIBITED.

814.4.4 ZERO DISCHARGE WASTES. THE DISCHARGE OF WASTES FROM A VEHICLE WITH A WASTE HAULER ZERO DISCHARGE PERMIT AT ANY COMMISSION DISPOSAL SITE IS PROHIBITED.

814.4.5 TRANSFERRED ZERO DISCHARGE WASTES. THE DISCHARGE OF WASTES TRANSFERRED FROM A VEHICLE WITH A WASTE HAULER ZERO DISCHARGE PERMIT AT ANY COMMISSION DISPOSAL SITE IS PROHIBITED.

814.4.6 DISCHARGE OF GREASE WASTE. THE DISCHARGE OF WASTEWATER CONTAINING FATS, OILS, AND GREASE AT ANY COMMISSION DISPOSAL SITE EXCEPT FOR MUDDY BRANCH ROAD SHALL BE PROHIBITED.

[814.3.2]814.4.7 Transfer [tanks]OF WASTES. [The discharge of wastes from transfer tanks used for the purpose of storing wastes collected and combined from various sources is prohibited.**]ONLY WASTE HAULER DISCHARGE PERMITTED VEHICLES PERFORMING THE SERVICING OF FSES OR PUMPING SEPTAGE OR PORTABLE TOILET WASTE MAY DISPOSE OF THE WASTE AT A COMMISSION DISPOSAL SITE. HAULED WASTES SHALL NOT BE THE FOLLOWING:**

A. TRANSFERRED FROM ONE VEHICLE TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMISSION.

B. TRANSFERRED FROM ONE WASTE HAULER COMPANY TO ANOTHER THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.

C. TRANSFERRED INTO A TRANSFER OR HOLDING TANK THEN DISPOSED OF AT A COMMISSION DISPOSAL SITE.

814.4.8 MIXED WASTES. IN THE CASE OF MIXED LOADS, IF ANY PART OF THE MIXED LOAD CONTAINS WASTE THAT IS RESTRICTED OR PROHIBITED, DISCHARGE AT A COMISSION DISPOSAL SITE IS PROHIBITED.

814.4.9 POTABLE WATER. TRANSPORTATION OF POTABLE WATER OR CONNECTION TO THE COMMISSION WATER SUPPLY SYSTEM BY A WASTE HAULER VEHICLE IS PROHIBITED.

814.4.10 PUMP AND RETURN. EXCEPT AS ALLOWED IN SECTION 814.17.2, PUMP AND RETURN IS PROHIBITED.

[814.4]814.5 [Application.]WASTE HAULER PERMIT APPLICATIONS. [A person engaging in the cleaning of grease interceptors within the Sanitary District shall apply to the Commission for either a Waste Hauler Discharge Permit or a Zero Discharge Permit for each truck engaged in the cleaning of grease interceptors.

A person engaging in the cleaning of septic tanks or holding tanks shall apply to the Commission for a Waste Hauler Discharge permit for each truck used in discharging wastes at the waste disposal sites designated by the Commission.**]A PERSON WHO ENGAGES IN CLEANING SEPTIC TANKS, HOLDING TANKS OR GREASE INTERCEPTORS WITHIN THE ACCEPTABLE SERVICE AREA SHALL APPLY FOR A WASTE HAULER DISCHARGE PERMIT FOR EACH VEHICLE THAT DISCHARGES WASTE AT A COMMISSION DISPOSAL SITE.**

A PERSON WHO ENGAGES IN CLEANING GREASE INTERCEPTORS WITHIN THE WSSD AND DISPOSES OF THE WASTE AT A WASTE DISPOSAL SITE OTHER THAN A COMMISSION DISPOSAL SITE SHALL APPLY FOR A WASTE HAULER ZERO DISCHARGE PERMIT FOR EACH VEHICLE USED IN CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT.

[814.5]814.6 Waste [hauler permits]HAULER PERMITS.

[814.5.1]814.6.1 Waste Hauler Discharge Permit. [Individuals, partnerships, or corporations engaged in the cleaning of septic tanks, holding tanks or grease interceptors shall apply for a Waste Hauler Discharge Permit for each truck used in discharging wastes at the waste disposal sites designated by the Commission.**]THE OWNER OF EACH VEHICLE THAT DISCHARGES WASTE AT A COMMISSION DISPOSAL SITE SHALL APPLY FOR AND POSSESS A WASTE HAULER DISCHARGE PERMIT. A WASTE HAULER DISCHARGE PERMIT AUTHORIZES THE OWNER OF THE PERMITTED VEHICLE TO DISPOSE OF DOMESTIC WASTES OR GREASE FROM FSES AT DESIGNATED COMMISSION DISPOSAL SITES. WITH THE EXCEPTION OF SECTION 814.6.1.1, DISCHARGE OF HAULED WASTE AT A COMMISSION DISPOSAL SITE WITHOUT A WASTE HAULER PERMIT IS PROHIBITED.**

[814.5.1.1 Prohibited discharge. With the exception of Section 814.5.1.2, discharge of waste without a waste hauler discharge permit shall be prohibited.**]**

[814.5.1.2]814.6.1.1 Recreational vehicles. Recreational vehicles shall be exempt from obtaining a **[**waste hauler discharge permit**]WASTE HAULER DISCHARGE PERMIT**.

[814.5.2]814.6.2 WASTE HAULER Zero Discharge Permit. [Individuals, partnerships, or corporations engaged in the cleaning of grease interceptors within the Commission service area shall apply for a Zero Discharge Permit for each truck used in cleaning of grease interceptors within the Sanitary District, if they elect to dispose of this waste at a waste disposal site outside of the Commission's jurisdiction. Any waste collected by a vehicle with a Zero Discharge Permit shall be disposed of outside the Commission's jurisdiction and cannot be transferred to a vehicle with a Commission waste hauler discharge permit. A Zero Discharge Permit is not an authorization to discharge at the Commission's disposal sites.**]THE OWNER OF EACH VEHICLE USED TO CLEAN GREASE INTERCEPTORS WITHIN THE SANITARY DISTRICT, BUT NOT DISCHARGE THE WASTE AT A COMMISSION DISPOSAL SITE, SHALL APPLY FOR AND POSSESS A WASTE HAULER ZERO DISCHARGE PERMIT. THE WASTE HAULER ZERO DISCHARGE PERMIT AUTHORIZES THE PERMITTED VEHICLE TO BE USED**

TO CLEAN GREASE INTERCEPTORS AT FSES LOCATED WITHIN THE WSSD. ANY WASTE COLLECTED BY A PERMITTED VEHICLE MAY NOT BE DISPOSED OF AT A COMMISSION DISPOSAL SITE AND CANNOT BE TRANSFERRED TO ANOTHER VEHICLE AND DISPOSED OF AT A COMMISSION DISPOSAL SITE.

814.6.3 CLEANING OF GREASE INTERCEPTORS. WITH THE EXCEPTION OF FSES THAT CLEAN THEIR OWN FLOW-BASED GREASE INTERCEPTORS, A GREASE INTERCEPTOR WITHIN THE WSSD SHALL ONLY BE CLEANED BY A WASTE HAULER WITH THE APPROPRIATE WASTE HAULER PERMIT. FSES THAT CLEAN THEIR OWN FLOW-BASED GREASE INTERCEPTORS ARE NOT REQUIRED TO OBTAIN A WASTE HAULER PERMIT AND SHALL DISPOSE OF THE SKIMMED GREASE IN THE TRASH.

[814.5.3]814.6.4 Duration. The Waste Hauler **[**Discharger**]DISCHARGE** Permit and **[**the**]WASTE HAULER** Zero Discharge Permit shall be issued for a specified time period not to exceed the current fiscal year. **[**This**]SUBJECT TO SECTIONS 814.6.5 AND 814.7, THE** permission **TO DISCHARGE AT A COMMISSION DISPOSAL SITE OR CLEAN GREASE INTERCEPTORS WITHIN THE SANITARY DISTRICT IS** conditional **AND DEPENDS** on compliance with **ALL TERMS AND CONDITIONS AND REQUIREMENTS OF THE** Waste Hauler Discharge **PERMIT** and **WASTE HAULER** Zero Discharge Permit **[**requirements**]**, and this Code.

814.6.5 RECORDKEEPING. WASTE HAULERS SHALL HAVE A COPY OF EACH PERMIT AT THE ADDRESS SHOWN ON THE PERMIT. IN addition, A COPY OF THE PERMIT SHALL BE CARRIED IN THE PERMITTED VEHICLE OR IN THE TRUCK PULLING A PERMITTED VEHICLE THE WASTE HAULER SHALL PRODUCE A COPY OF THE PERMIT UPON REQUEST BY THE COMMISSION.

[814.5.4]814.6.6 Terms and conditions. Waste Haulers shall comply with all conditions for issuance of a Waste Hauler Discharge Permit or **[**a**] WASTE HAULER** Zero Discharge Permit as established by the Commission. Upon receiving a permit, the Waste Hauler shall comply with all permit conditions.

[814.6]814.7 [Waste Hauler Discharge and Zero Discharge Hauler] Permit requirements. The Waste Hauler Discharge **PERMIT** and **WASTE HAULER** Zero Discharge **[**Hauler permits**]PERMIT** contain requirements necessary for the Commission to assess and ensure compliance with these Regulations. Permitted **WASTE** haulers shall take all reasonable steps to correct any adverse impact resulting from noncompliance with either the Waste Hauler **DISCHARGE PERMIT** or **WASTE HAULER** Zero Discharge **[**Hauler permit**]PERMIT**.

814.8 PERMIT MODIFICATIONS. THE COMMISSION MAY MODIFY A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT FOR GOOD CAUSE INCLUDING THE FOLLOWING:

- **A. TO INCORPORATE ANY NEW OR REVISED FEDERAL, STATE, OR LOCAL PRETREATMENT STANDARDS OR REQUIREMENTS.**
- **B. A CHANGE IN THE POTW THAT REQUIRES EITHER A TEMPORARY OR PERMANENT REDUCTION OR ELIMINATION OF THE AUTHORIZED DISCHARGE.**
- **C. INFORMATION INDICATING THAT THE PERMITTED DISCHARGE POSES A THREAT TO THE COMMISSION'S TREATMENT PLANTS, COLLECTION SYSTEM, PERSONNEL, OR THE RECEIVING WATERS.**
- **D. A VIOLATION OF ANY TERMS OR CONDITIONS OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT.**
- **E. MISREPRESENTATIONS OR FAILURE TO FULLY DISCLOSE ALL RELEVANT FACTS IN THE PERMIT APPLICATION OR IN ANY REQUIRED REPORTING.**
- **F. TO REFLECT A TRANSFER OF THE OWNER OF A PERMITTED VEHICLE OR OPERATION TO A NEW OWNER OR OPERATOR.**

814.9 PERMIT SUSPENSION, REVOCATION, OR DENIAL. WASTE HAULER DISCHARGE PERMITS OR WASTE HAULER ZERO DISCHARGE PERMITS MAY BE SUSPENDED, REVOCATED, OR DENIED FOR GOOD CAUSE INCLUDING THE FOLLOWING:

- **A. PERMIT VIOLATIONS. VIOLATION OF ANY TERMS OR CONDITIONS OR REQUIREMENTS OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT.**
- **B. FAILURE TO OBTAIN A PERMIT. CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT OR DISCHARGING ANY WASTE TO THE COLLECTION SYSTEM WITHOUT FIRST SECURING THE APPROPRIATE PERMIT.**
- **C. NON-COMPATIBLE WASTES. INFORMATION INDICATING THAT THE PERMITTED DISCHARGE POSES A THREAT TO THE COLLECTION SYSTEM, TREATMENT SYSTEM, OR COMMISSION PERSONNEL.**
- **D. FATS, OILS, AND GREASE DISCHARGES. DISCHARGING GREASY WASTEWATER AT NON-DESIGNATED COMMISSION DISPOSAL SITES.**
- **E. DISCHARGE OF NON-DOMESTIC WASTES. THE UNAUTHORIZED DISCHARGE OF WASTE FROM NON-DOMESTIC SOURCES AT A COMMISSION DISPOSAL SITE.**

F. POINT OF DISCHARGE. DISCHARGING HAULED WASTE AT A LOCATION IN THE SANITARY DISTRICT OTHER THAN A COMMISSON DISPOSAL SITE WITHOUT PRIOR APPROVAL.
G. MISREPRESENTATION. OBTAINING A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY MISREPRESENTATION OR FAILURE TO DISCLOSE ALL RELEVANT FACTS.
H. FAILURE TO PROVIDE RECORDS. FAILURE TO PROVIDE PAPER RECORDS AS DESCRIBED IN SECTION 814.12.
I. OTHER LICENSES AND PERMITS. FAILURE TO OBTAIN OR MAINTAIN APPROPRIATE CURRENT HAULING LICENSES OR PERMITS FROM FEDERAL, STATE, OR LOCAL AGENCIES.
J. DENYING ACCESS BY THE COMMISSION. DENYING COMMISSION PERSONNEL ACCESS TO A VEHICLE OR ITS CONTENTS FOR PURPOSES OF COLLECTING A SAMPLE OR OBTAINING INSTRUMENT READINGS (I.E. % LEL, PH, H2S, ETC.) OR A COMBINATION OF BOTH.
K. MISCONDUCT. USE OF ABUSIVE LANGUAGE, THREATS, MISCHIEVOUS OR CRIMINAL ACTS DIRECTED TOWARD A CODE OFFICIAL, OR COMMISSION PERSONNEL, WHILE THEY ARE PERFORMING THEIR OFFICIAL DUTIES.
L. OUTSTANDING JUDGMENTS. FAILURE TO RENDER MONETARY PAYMENT TO THE COMMISSION FOR A SETTLEMENT BETWEEN THE COMMISSION AND A WASTE HAULER OR A JUDGMENT OBTAINED BY THE COMMISSION AGAINST A WASTE HAULER.

THE SUSPENSION, REVOCATION, OR DENIAL OF A PERMIT FOR ONE VEHICLE MAY APPLY TO ALL PERMITS HELD BY THE SAME PERSON.

814.9.1 SUSPENSION, REVOCATION, OR DENIAL. UPON NOTIFICATION OF SUSPENSION, REVOCATION, OR DENIAL OF A WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT BY THE COMMISSION, THE SPECIFIED VEHICLE OR WASTE HAULER SHALL CEASE ALL CLEANING OF GREASE INTERCEPTORS OF FSES WITHIN THE COMMISSION AND, IF APPLICABLE, SHALL CEASE ALL DISCHARGES OF HAULED WASTE TO COMMISSION WASTE DISPOSAL SITES.

814.9.2 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE OR REISSUE A SUSPENDED OR REVOCATED WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT UNTIL THE WASTE HAULER:

A. COMPLETES A NEW PERMIT APPLICATION AND PAYS THE ASSOCIATED FEES.
B. REQUESTS IN WRITING THAT THE EXISTING PERMIT BE REINSTATED OR REISSUED.
C. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.
D. COMPLETES ANY CORRECTIVE ACTION FOR ALL VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.
E. SUBMITS PAYMENT OF ALL CIVIL CITATIONS ASSOCIATED WITH THE VIOLATIONS THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING PERMIT.
F. UPON REVIEWING ALL OF THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE WASTE HAULER'S REQUEST SHALL BE APPROVED.

814.10 PERMIT TRANSFERABILITY. WASTE HAULER DISCHARGE PERMITS MAY NOT BE TRANSFERRED WITHOUT APPROVAL FROM THE COMMISSION. WASTE HAULER ZERO DISCHARGE PERMITS ARE NOT TRANSFERABLE.

814.10.1 ADVANCE NOTICE. WASTE HAULER DISCHARGE PERMITS MAY BE TRANSFERRED TO A NEW OWNER OR OPERATOR ONLY IF THE PERMITTED WASTE HAULER GIVES AT LEAST 30 DAYS ADVANCE NOTICE TO THE COMMISSION, AND THE COMMISSION APPROVES THE PERMIT TRANSFER. THE NEW OWNER OR OPERATOR SHALL SUBMIT THE FOLLOWING TO THE COMMISSION:

A. DOCUMENTATION INDICATING THE PURCHASE OF THE VEHICLES OR ORIGINAL BUSINESS.
B. REQUESTED DATE OF THE TRANSFER.
C. COMPLETED WASTE HAULER PERMIT APPLICATION.

814.10.2 FAILURE TO PROVIDE ADVANCE NOTICE. FAILURE TO PROVIDE ADVANCE NOTICE OF OWNERSHIP CHANGE SHALL RENDER THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT VOID AS OF THE DATE OF THE BUSINESS OR VEHICLE OWNERSHIP CHANGE.

814.11 WASTE HAULER PERMIT; RE-ISSUANCE. A WASTE HAULER WITH AN EXPIRING WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT SHALL APPLY FOR A NEW PERMIT BY SUBMITTING A COMPLETE WASTE HAULER PERMIT APPLICATION IF THEY WISH TO CONTINUE TO ENGAGE IN THE BUSINESS OF TRANSPORTATION OR DISPOSAL OF DOMESTIC WASTES OR GREASE FROM FSES WITHIN THE COMMISSION'S ACCEPTABLE SERVICE AREA. RENEWAL OF THE WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT SHALL BE CONTINGENT ON PAYMENT OF THE PERMIT RENEWAL FEE, AND COMPLIANCE WITH THE TERMS, CONDITIONS AND

LIMITATIONS OF THE EXISTING WASTE HAULER DISCHARGE PERMIT OR WASTE HAULER ZERO DISCHARGE PERMIT. A PERMIT MAY NOT BE RE-ISSUED TO ANY WASTE HAULER WITH OUTSTANDING JUDGMENTS.

814.12 SUBMISSION OF REQUIRED INFORMATION. IN ADDITION TO THE SUBMISSION OF INFORMATION TO THE COMMISSION SET FORTH BELOW, WASTE HAULERS ENGAGED IN CLEANING INTERCEPTORS AND GREASE TRAPS SHALL ALSO COMPLY WITH NOTIFICATION REQUIREMENTS IN SECTION 814.12.2.

814.12.1 DOCUMENTATION. UPON REQUEST OF THE COMMISSION, ANY WASTE HAULER USING A COMMISSION DISPOSAL SITE OR ENGAGED IN CLEANING A GREASE INTERCEPTOR WITHIN THE SANITARY DISTRICT SHALL SUBMIT MANIFESTS, INVOICES, REPORTS, QUESTIONNAIRES, NOTICES, ANALYTICAL DATA, OR ANY OTHER INFORMATION NECESSARY TO EVALUATE WASTE DISCHARGE CHARACTERISTICS, ENSURE COMPLIANCE WITH THESE REGULATIONS, AND PROPER WASTE DISPOSAL. THESE DOCUMENTS SHALL BE COMPLETED IN A MANNER APPROVED BY THE COMMISSION AND SUBMITTED IN A TIME FRAME AS DIRECTED BY THE COMMISSION.

[814.7]814.12.2 [Requests for information.]MANIFESTS. The Commission, or its representative, may request information concerning the nature or origin of the contents of any permitted vehicle. This information may be in the form of a manifest. The **[**permittee**]WASTE HAULER** shall **[**be required to**]** comply with all such requests including information concerning the name, address, date of the waste pick-up, disposal points, volumes, and waste characteristics by completing and signing a Commission-approved manifest. **[**This information shall be in the possession of the driver at the time of discharge and a copy of the manifest shall be placed in the appropriate receptacle provided by the Commission at the Commission waste disposal site at the time of each discharge.**]** The Commission may also request additional information related to the use of its designated waste disposal sites.

[If the permittee disposes a load of hauled waste from a food service establishment's grease interceptor at a location other than at waste disposal sites designated by the Commission, then the permittee must mail in the Commission-approved manifest within the time frame as specified in the permit conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit.**]**

A. FOR WASTE DISCHARGED AT A COMMISSION DISPOSAL SITE, THE WASTE HAULER SHALL SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.
EXCEPTION: A MANIFEST IS NOT REQUIRED TO DISPOSE OF DOMESTIC WASTE FROM BUSES AND RECREATIONAL VEHICLES AT A COMMISSION DISPOSAL SITE.

B. WASTE HAULERS OPERATING WITH A WASTE HAULER ZERO DISCHARGE PERMIT ARE REQUIRED TO SUBMIT A MANIFEST TO THE COMMISSION'S ELECTRONIC REPORTING SYSTEM WITHIN 2 BUSINESS DAYS OF PUMP-OUT.
EXCEPTION: A MANIFEST IS NOT REQUIRED FOR THE DISPOSAL OF WASTE FROM INDOOR GREASE INTERCEPTORS THAT ARE LESS THAN 100 GALLONS IN VOLUME AND THE WASTE IS DISPOSED OF AT A LOCATION OTHER THAN A COMMISSION DISPOSAL SITE.

[814.8 Permit transferability. Permits shall not be transferable without approval from the Commission. The permittee shall notify the Commission immediately if their State license plate or registration has changed on any of their permitted vehicles.**]**

[814.9 Mixed wastes and multi-use vehicles. The Commission shall reserve the right to refuse acceptance of any load. Dischargers may be required to cease unloading operations at any time. Permitted tank trucks may not be used to transport potable water and they shall not be allowed to make any connection to the Commission's water supply system. In the case of combined loads, any part of the load that is restricted or prohibited shall make the entire load unacceptable for discharge.**]**

[814.10]814.13 Sampling. Upon request, any permitted vehicle shall provide Commission personnel with access to the wastewater contained in the vehicle. Commission personnel may characterize the waste through the collection of samples or obtaining instrument readings or both in a manner and number as specified by the Commission.

[814.11 Notifications of spills and clean up. The waste haulers shall notify the Commission immediately, via phone, of all spill occurrences followed by filing, in-writing within 7 days, a report detailing the reason for the spill, the areas impacted, clean-up activities, and whether the spill reached any environmentally sensitive area such as parks, residential, commercial or institutional areas, streams, rivers, lakes, ponds or storm drain. Any corrective actions taken to avoid the occurrences of the spills in the future should also be a part of this reporting. In the case where the spill occurs at a FSE, a copy of this report shall also be provided to the owner of the grease interceptor.**]**

[814.12 Acceptable service area. Only domestic or greasy wastewater originating from the following counties: Montgomery County, Prince George's County, Arlington County (VA), Fairfax County (VA), Loudoun County (VA), and the District of Columbia is allowed to be discharged at disposal sites designated by the Commission.**]**

[814.13 Disposal sites. Only disposal sites designated by the Commission shall be used for the discharge of waste from a permitted vehicle into the Commission's sewer system.**]**

[814.14 Permit suspension, revocation, or denial. The Waste Hauler Discharge Permit or Zero Discharge Permit may be suspended, terminated, or denied for good cause including the following:

814.14.1 Non-compatible wastes. Information indicating that the permitted discharge poses a threat to the collection system, treatment system, or Commission personnel.

814.14.2 Permit violations. Violation of any terms or conditions of the Waste Hauler Discharge Permit or Zero Discharge Permit.

814.14.3 Misrepresentation. Obtaining a Waste Hauler Discharge Permit or Zero Discharge Permit by misrepresentation or failure to disclose all relevant facts.

814.14.4 Failure to obtain a permit. Cleaning a grease interceptor or discharging any waste to the collection system without first securing the appropriate permit.

814.14.5 Discharge of non-domestic wastes. The unauthorized discharge of waste from non-domestic sources at a Commission disposal site.

814.14.6 Denying access by the Commission. Denying Commission personnel access to a vehicle or its contents for purposes of collecting a sample or obtaining instrument readings (i.e. % LEL, pH, H_2S, etc.) or a combination of both.

814.14.7 Failure to provide records. Failure to provide paper records as described in Section 814.7.

814.14.8 Other licenses and permits. Failure to obtain or maintain appropriate current hauling licenses or permits from Federal, State, or local agencies.

814.14.9 Fats, oils, and grease discharges. Discharge of greasy wastewater at non-designated disposal sites.

814.14.10 Misconduct. Use of abusive language, threats, mischievous or criminal acts directed toward a Code Official, or Commission personnel, while they are performing their official duties.

814.14.11 Outstanding judgments. Failure to render monetary payment to the Commission for a settlement between the Commission and a waste hauler or a judgment obtained by the Commission against a waste hauler.**]**

814.14 DISPOSAL REQUIREMENTS.

814.14.1 HOSES. WASTE HAULERS SHALL CONVEY THE WASTES TO THE BOTTOM OF THE DISCHARGE STRUCTURE AT THE COMMISSION DISPOSAL SITE. THE WASTE SHALL BE CONVEYED BY A HOSE OF SUFFICIENT LENGTH AND HOSE SHALL BE ATTACHED TO THE OUTLET OR DISCHARGE OF THE VEHICLE'S WASTE TANK.

814.14.2 BUSES. ALL BUSES DISCHARGING AT A COMMISSION DISPOSAL SITE SHALL USE A HOSE OF SUFFICIENT LENGTH OR OTHER DEVICE THAT IS CONNECTED DIRECTLY TO THE WASTE TANK TO ENSURE THAT WASTES ARE CONVEYED TO THE BOTTOM OF THE DISPOSAL STRUCTURE. THE COMMISSION DISPOSAL SITE SHALL NOT BE USED TO DISPOSE OF OTHER WASTES, SUCH AS TOILET PAPER OR TRASH.

814.14.3 SANITARY CONDITIONS. HAULED WASTE SHALL NOT BE DISCHARGED ONTO THE SURFACE AROUND THE DISCHARGE STRUCTURE AT THE COMMISSION DISPOSAL SITE. THE WASTE HAULER SHALL LEAVE THE COMMISSION DISPOSAL SITE IN AN ACCEPTABLE, SANITARY CONDITION.

814.14.4 TRASH AND DEBRIS. THE WASTE HAULER SHALL ENSURE THAT NO WASTE MATERIALS, TRASH, OR OTHER DEBRIS IS LEFT AT THE COMMISSION DISPOSAL SITE. THE WASTE HAULER SHALL WASH DOWN THE DISPOSAL AREA AS NEEDED.

814.14.5 ACCESS TO WATER. THE WATER PROVIDED AT THE COMMISSION DISPOSAL SITE SHALL BE USED ONLY FOR CLEANING SPILLAGE AROUND THE DISPOSAL AREA AND SHALL NOT BE USED FOR FILLING TANKS OR CLEANING VEHICLES.

814.14.6 ORIGINAL CONDITION. THE WASTE HAULER SHALL RETURN THE COMMISSION DISPOSAL SITE TO ITS ORIGINAL CONDITION.

814.15 Penalties. In addition to permit action under Section **[**814.14**]**814.9, failure to comply with any permit conditions may result in **[**civil or criminal liability**]ENFORCEMENT ACTIONS** under **ANY** applicable **LOCAL**, State, or Federal law **[**and may be grounds to impose penalties, as outlined in the Commission's Enforcement Response Plan**]OR REGULATION, INCLUDING SECTION 114 OF THIS CODE**.

814.15.1 PROSECUTION. VIOLATIONS OF THESE REGULATIONS MAY BE PROSECUTED UNDER TITLE 29 OF THE PUBLIC UTILITIES ARTICLE AND SUBSEQUENT AMENDMENTS THERETO. EACH DAY OF A VIOLATION SHALL CONSTITUTE A SEPARATE OFFENSE, AND APPLICABLE PENALTIES SHALL BE APPLIED TO EACH OFFENSE.

[814.15.1]814.15.2 Civil citations. Any violation of Section 814 or a condition of any permit issued by the Commission shall be cause for issuance of a State of Maryland civil citation ($250.00-$1000.00). [Such violations may be cause for legal prosecution by the Commission under provisions of this Code. The following violations, amoung others, shall be addressed with a civil citation:

- **a.** Discharging without a hose.
- **b.** Discharging without a permit.
- **c.** Unauthorized transfer of permit.
- **d.** Creating unsanitary conditions through spillage of wastes.
- **e.** Failure to comply with grease interceptor cleaning procedures.
- **f.** Failure to comply with requests for information or incomplete manifests.]

814.15.3 ADMINISTRATIVE ENFORCEMENT. THE COMMISSION MAY ASSESS ADMINISTRATIVE PENALTIES UP TO $1,000 FOR EACH VIOLATION STATED IN AN ADMINISTRATIVE ORDER, NOT TO EXCEED $50,000. A CIVIL CITATION WITH ASSOCIATED FINES AS WELL MAY BE ISSUED FOR VIOLATIONS OF ANY PROVISION OF THIS CODE IN ACCORDANCE WITH THE COMMISSION'S ENFORCEMENT RESPONSE PLAN.

[814.15.2 Permit Revocation. The discharge of any unapproved waste from a non-domestic source at a Commission disposal site shall result in the immediate revocation of all discharge permits held by the permittee.]

814.16 LIABILITY FOR EXPENSES.

814.16.1 REPAIR REIMBURSEMENT. THE WASTE HAULER SHALL REIMBURSE THE COMMISSION FOR THE COST OF ANY WORK OR REPAIR MADE NECESSARY FOR THE NEGLECT OR ACTION OF THE WASTE HAULER RESULTING FROM THE DISCHARGE OF HAULED WASTE.

814.16.2 ACTIVITY REIMBURSEMENT. THE WASTE HAULER SHALL REIMBURSE THE COMMISSION FOR ALL COSTS ASSOCIATED WITH INVESTIGATIONS, MONITORING, ANALYSIS, OR ENFORCEMENT ACTIONS RESULTING FROM ANY VIOLATION OF THIS CODE.

814.17 GREASE INTERCEPTORS CLEANERS. EACH PERSON WHO CLEANS A GREASE INTERCEPTOR IS RESPONSIBLE FOR COMPLYING WITH SECTIONS 814.17.1 THROUGH 814.17.4.

814.17.1 PHOTOGRAPHIC DOCUMENTATION. EACH PERSON WHO CLEANS A GREASE INTERCEPTOR OR GREASE TRAP SHALL PROVIDE PHOTOGRAPHIC DOCUMENTATION OF THE WORK COMPLETED.

- **A. ALL PHOTOGRAPHS SHALL BE MAINTAINED FOR 3 YEARS AND BE MADE AVAILABLE TO THE COMMISSION UPON REQUEST.**
- **B. ALL PHOTOGRAPHS SHALL BE DATED AND TIME STAMPED AND WITH THE LOCATION ACCURATELY DOCUMENTED.**
- **C. PHOTOGRAPHS SHALL BE TAKEN OF THE FOLLOWING:**
  - **I. BEFORE CLEANING, THE SITE CONDITION AND LOCATION OF THE INTERCEPTOR WITH THE MANHOLE COVERS INSTALLED.**
  - **II. AFTER CLEANING AND EMPTYING GREASE INTERCEPTOR, ALL COMPARTMENTS OF THE GREASE INTERCEPTOR.**
  - **III. DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTORS. EXAMPLES OF DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTORS INCLUDES INTERCEPTORS WITH GREASE AND WASTE CONTENT ABOVE THE INLET OR OUTLET PIPING OF THE INTERCEPTOR, SIGNS OF SURCHARGING, BROKEN DIFFUSER BAFFLES, OR COLLAPSED OR DAMAGED BAFFLE WALLS.**
  - **IV. THE SITE CONDITION AFTER THE GREASE INTERCEPTOR OR GREASE TRAP HAS BEEN CLEANED AND THE MANHOLE OR INTERCEPTOR LIDS HAVE BEEN REINSTALLED.**

814.17.2 CLEANING PROCEDURES. REQUIRED CLEANING PROCEDURES ARE AS FOLLOWS:

- **A. REMOVE ALL MANHOLE COVERS, INTERCEPTOR LIDS, OR ACCESS PANELS TO THE INTERCEPTOR.**
- **B. CLEANING PROCEDURES SHALL BEGIN FROM THE INLET END OR INLET COMPARTMENT OF THE INTERCEPTOR IN THE FOLLOWING SEQUENCE:**
  - **I. REMOVAL OF THE FLOATING GREASE LAYER.**
  - **II. REMOVAL OF THE GREASE ADHERING TO THE INTERCEPTOR OR GREASE TRAP WALLS WHERE ACCESSIBLE.**

III. REMOVAL OF ALL THE SEDIMENT LAYER. IF NECESSARY, WASTE HAULERS MAY ADD A SMALL AMOUNT OF LIQUID BACK INTO THE INTERCEPTOR TO CREATE A SLURRY TO AID IN THE REMOVAL OF THE SEDIMENT LAYER.

C. REPEAT THE ABOVE STEPS AS NECESSARY TO ENSURE THAT EACH COMPARTMENT OF THE INTERCEPTOR IS COMPLETELY EMPTY.

D. A FLEXIBLE HOSE OR A FIXED STAINLESS STEEL OR PVC PIPE MAY BE USED AS LONG AS IT CAN SAFELY MANEUVER IN AND THROUGHOUT THE INTERCEPTOR. THE DIAMETER OF THE HOSE OR PIPE SHOULD BE APPROXIMATELY THE SAME DIAMETER AS THE INTAKE HOSE (SUCTION HOSE TO THE WASTE HAULER VEHICLE).

E. PUMP AND RETURN IS NOT ALLOWED WITHOUT PRIOR WRITTEN APPROVAL FROM THE COMMISSION.

814.17.3 NOTIFICATION REQUIREMENTS TO FSE OWNER. WASTE HAULERS ARE REQUIRED TO NOTIFY THE FSE PERMIT HOLDER AS FOLLOWS:

A. THE WASTE HAULER SHALL NOTIFY THE FSE OWNER THAT THE INTERCEPTOR OR GREASE TRAP REQUIRES POWER WASH CLEANING AT LEAST ANNUALLY OR WHEN THERE IS A BUILD-UP OF SOLIDS OR GREASE ON THE WALLS OR BAFFLES OF THE INTERCEPTOR OR GREASE TRAP WHICH INTERFERES WITH THE PROPER FUNCTION OF THE INTERCEPTOR OR GREASE TRAP.

B. THE WASTE HAULER SHALL NOTIFY THE PROPERTY OWNER, TENANT, OR FSE OWNER IF AN INTERCEPTOR OR GREASE TRAP IS OVERFLOWING OR IS ABOUT TO OVERFLOW.

814.17.4 NOTIFICATION REQUIREMENTS TO THE COMMISSION. WASTE HAULERS ARE REQUIRED TO NOTIFY THE COMMISSION AS FOLLOWS:

A. IN THE EVENT OF A DEFECTIVE, BROKEN, OR DEFICIENT INTERCEPTOR, THE WASTE HAULER SHALL SUBMIT PHOTOGRAPHIC DOCUMENTATION TO THE COMMISSION.

B. IN THE EVENT OF ANY INTERCEPTOR OVERFLOW CAUSING AN ENVIRONMENTAL OR SANITARY IMPACT, THE WASTE HAULER SHALL IMMEDIATELY DOCUMENT THE OVERFLOW AND NOTIFY THE COMMISSION.

SECTION 815 FEES

815.1 Scope. The Commission shall establish charges and fees that shall include [but not be limited to]:

815.1.1 Commission pretreatment program. Fees for reimbursement of costs of setting up and operating the Commission's [Pretreatment Program]PRETREATMENT PROGRAM.

815.1.2 Monitoring activities. Fees for monitoring, inspection, and surveillance activities.

815.1.3 Permits. Fees for permit applications.

815.1.4 Legal. Legal fees.

815.1.5 Other. Other fees as the Commission may deem necessary to carry out the requirements contained herein.

SECTION 816 UPSET PROVISION

(Categorical Industrial Users only)

816.1 Scope. An upset, as defined by the Federal general pretreatment regulations in 40 CFR Part 403, is an exceptional incident in which there is unintentional and temporary noncompliance with categorical pretreatment standards because of factors beyond the reasonable control of the Industrial User. An upset shall not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

816.2 Upset defense. An upset may be used as an affirmative defense to an action brought for noncompliance with categorical pretreatment standards only if the Industrial User demonstrates, through properly signed contemporaneous logs, or other relevant evidence, that includes the following:

816.2.1 Specific cause. An upset occurred and the Industrial User can identify the specific cause(s) of the upset.

816.2.2 Prudent operation. The permitted facility was, at the time, being operated in a prudent and workmanlike manner and in compliance with applicable operation and maintenance procedures.

816.2.3 Timely reporting. The Industrial User has submitted the following information to the Commission within 24-hours of becoming aware of the upset; if this information is provided orally, a written submission shall follow within 5 days: A description of the indirect discharge and cause of noncompliance; the period of noncompliance, including exact

dates and times, or if not corrected, the anticipated time that the noncompliance is expected to continue; steps being taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

816.2.4 Burden of proof. In any enforcement proceeding, the Industrial User seeking to establish the occurrence of an upset shall have the burden of proof.

816.2.5 Legal remedy. Industrial Users shall have the opportunity for a judicial determination on any claim of upset only in an enforcement action brought for noncompliance with categorical pretreatment standards.

816.2.6 Temporary shutdown. The Industrial User shall control production or all discharges to the extent necessary to maintain compliance with categorical pretreatment standards upon reduction, loss, or failure of its treatment facility until the facility is restored, or an alternative method of treatment is provided. This requirement shall apply in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

SECTION 817 BYPASS PROVISION

817.1 Bypass. With the exception of Sections 817.1.1 thru 817.1.3, bypass of an Industrial User's treatment facility shall be prohibited.

817.1.1 Bypass for essential maintenance. The Industrial User may allow any bypass to occur which shall not cause pretreatment standards or requirements to be violated, but only if it also is for essential maintenance to assure efficient operations. If bypass is needed for maintenance, the Industrial User shall notify the Commission of necessary maintenance within 24 hours of determining essential maintenance. Industrial User shall submit data documenting that standards were being met and shall submit written report within 30 days of the event.

817.1.2 Unavoidable bypass. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.

817.1.3 No alternatives for bypass. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition shall not be satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance.

817.2 Notice.

817.2.1 Written notice. If an Industrial User knows in advance of the need for a bypass, the User shall submit prior written notice to the Commission, a minimum of 10 days before the date of the bypass.

817.2.2 Verbal notice. An Industrial User shall submit verbal notice of an unanticipated bypass that exceeds applicable pretreatment standards to the Commission within 24 hours from the time the Industrial User becomes aware of the bypass. A written submission shall also be provided within 5 days of the time the Industrial User becomes aware of the cause. The written submission shall include the duration of the bypass, including exact dates and times, and if the bypass has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass. The Commission may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

817.3 Exceptions to enforcement actions. The Commission shall take enforcement action against an Industrial User for a bypass unless:

817.3.1 Unavoidable. The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage.

817.3.2 No alternatives. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition shall not be satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance.

817.3.3 Notices submitted. The Industrial User submitted notices as required under Section 817.2.

817.4 Commission authorization. The Commission may approve an anticipated bypass, after considering its adverse effects, if the Commission determines that the bypass shall meet the 3 conditions cited in Section 817.3.

SECTION 818 FOOD SERVICE ESTABLISHMENT DISCHARGE REQUIREMENTS

818.1 Applicability. The regulations in this section shall apply to establishments where food is served to or provided for the public, with or without charge, including restaurants, cafeterias, hotel kitchens, church kitchens, school kitchens, hospital cafeterias, bars; or any other commercial operation that has the potential to discharge grease-laden wastewater. Food service establishments are referred to hereafter as FSEs. FSEs are a specially designated Industrial User.

818.1.1 Chapter 8 requirements. Notwithstanding the specific requirements in this section, all applicable regulations in Chapter 8 of this Code that relate to industrial users shall also apply to FSEs.

818.2 Permit required. All qualifying FSEs [shall obtain or be issued]**ARE REQUIRED TO HAVE** a FSE Wastewater Discharge Permit. **THE PERMIT MAY BE OBTAINED BY THE OPERATOR OF THE FSE, THE PROPERTY OWNER OR THE PROPERTY OWNER'S AGENT, OR OTHER AS APPROVED BY THE COMMISSION. FOR ONSITE GREASE SYSTEMS, THE PERSON RESPONSIBLE FOR THE GREASE SYSTEM IS REQUIRED TO HAVE AN FSE WASTEWATER DISCHARGE PERMIT. TO DOCUMENT A PERMIT, A SIGNED PERMIT SURVEY MAY BE REQUIRED FOR NEW AND EXISTING FSES. [**New and existing FSEs may be required to complete a fully signed permit survey to document their Discharge Permit.] Failure to return a completed permit survey [can subject]**MAY RESULT IN ENFORCEMENT ACTION TO PERSONS INVOLVED INCLUDING** the **OPERATOR OF THE** FSE, [to enforcement actions]**THE PROPERTY OWNER OR THE PROPERTY OWNER'S AGENT**. If the Commission deems[the FSE qualifies for] a **FSE WASTEWATER** Discharge Permit **IS REQUIRED**, the [FSE]**PERMIT** survey may also be used as the permit application requiring the Commission account number and a responsible party signature.

818.2.1 Issuance of discharge permit. To ensure the FSE**, OR THE PERSON RESPONSBILE FOR THE ONSITE GREASE SYSTEM,** is aware of requirements of this Code or other federal, state or Commission deadlines, the Commission reserves the right to issue a FSE Discharge Permit before receiving an FSE's completed permit survey.

818.2.2 Determination of discharge permit. The Commission shall make the determination that an FSE Discharge Permit is warranted under one or more of the following conditions:

- **a.** Before a new FSE opening with a valid health department permit.
- **b.** At the time of the Commission's full initial inspection of an open FSE.
- **c.** Upon receipt of a fully completed permit survey or application.

The Commission shall issue a permit if it is determined that pretreatment facilities are adequate for efficient treatment of discharged waste and that the discharged waste complies with the discharge limitations of this Code.

818.2.3 Survey or application review. The Commission shall review the survey or application submitted by the FSE**, OR THE PERSON RESPONSBILE FOR ONSITE GREASE INTERCEPTOR,** and may require additional information.

818.2.4 Duration. The FSE Wastewater Discharge Permit shall be [issued for a period of one year with annual renewal]**EFFECTIVE FOR THE DURATION THAT THE FSE OR THE ONSITE GREASE SYSTEM IS IN OPERATION**. This permission shall be conditional on compliance with FSE Discharge Permit requirements and this Code.

818.2.5 FSE Wastewater Discharge Permit requirements. The FSE Wastewater Discharge Permit contains requirements necessary for the Commission to assess and ensure compliance with this Code. The FSE Wastewater Discharge Permit shall, at a minimum, contain the following:

- **a.** Best Management Practices (BMPs) for controlling FOG discharges
- **b.** Grease abatement system operations and maintenance standards, when applicable
- **c.** On-site record keeping requirements (see Section 808.1.3)
- **d.** Statement of non-transferability.
- **e.** The FSE Wastewater Discharge Permit may contain other conditions as deemed appropriate by the Commission to ensure compliance with all applicable regulations.

818.2.6 FSE Wastewater Discharge Permit conditions.

The following conditions shall be effective in the permit:

- **a.** The FSE shall meet all requirements of this Code.
- **b.** The FSE shall maintain the required county health department permits at all times. Failure to do so may render the wastewater discharge permit invalid.
- **c.** Duty to mitigate requirements
- **d.** Duty to comply requirements
- **e.** Duty to provide information requirements
- **f.** Requests for reconsideration requirements
- **g.** Confidentiality procedures
- **h.** Permit modification, suspension, or termination procedures

i. Commission right of entry
j. Notification of changed discharge requirements
k. Records retention requirements
l. Falsifying information clause
m. Permit transferability procedure
n. Severability clause
o. Property rights clause
p. Extension of compliance dates procedures

818.2.7 FSE Wastewater Discharge Permit modifications. The Commission may modify the FSE Wastewater Discharge Permit for good cause including:

a. To incorporate any new pretreatment standards or requirements.
b. To address significant alterations or additions to the FSE's operations since the time of FSE Wastewater Discharge Permit issuance.

818.2.8 SUSPENSION AND REVOCATION OF FSE WASTEWATER DISCHARGE PERMIT. THE COMMISSION MAY REVOKE OR SUSPEND AN FSE DISCHARGE AUTHORIZATION PERMIT FOR GOOD CAUSE INCLUDING THE FOLLOWING:

A. FAILURE TO NOTIFY THE COMMISSION IN ADVANCE OF SIGNIFICANT CHANGES TO FSE PROCESSES, KITCHEN MODIFICATIONS, OR GREASE INTERCEPTOR CHARACTERISTICS.
B. MISREPRESENTATION OR FAILURE TO FULLY DISCLOSE ALL RELEVANT FACTS IN THE FSE WASTEWATER DISCHARGE PERMIT APPLICATION.
C. FALSIFYING CLEANING RECORDS OF INTERCEPTOR REPORTS OR CERTIFICATION STATEMENTS.
D. TAMPERING WITH INTERCEPTOR.
E. REFUSING TO ALLOW COMMISSION PERSONNEL TIMELY ACCESS TO THE FACILITY PREMISES AND RECORDS.
F. FAILURE TO COMPLY WITH FSE FOG WASTEWATER DISCHARGE PERMIT GENERAL CONDITIONS.
G. FAILURE TO PAY FINES, OR ANNUAL FSE FOG WASTEWATER DISCHARGE FEE.
H. FAILURE TO MEET COMPLIANCE SCHEDULES.
I. FAILURE TO PROVIDE ADVANCE NOTICE OF THE TRANSFER OF BUSINESS OWNERSHIP OF A PERMITTED FACILITY.
J. VIOLATION OF FSE WASTEWATER DISCHARGE PERMIT, INCLUDING GREASE ABATEMENT SYSTEM OPERATIONS AND MAINTENANCE STANDARDS.
K. FAILURE TO MAINTAIN GREASE ABATEMENT SYSTEM OR CAUSING AN ENVIRONMENTAL CONTAMINATION OR BACK-UP IN THE COMMISSION SEWER SYSTEM.

818.2.9 SUSPENSION OR REVOCATION. UPON NOTIFICATION OF SUSPENSION OR REVOCATION OF A FSE WASTEWATER DISCHARGE PERMIT ISSUED BY THE COMMISSION, THE FSE SHALL CEASE ALL OPERATIONS THAT HAVE THE POTENTIAL TO DISCHARGE GREASE-LADEN WASTEWATER. DISCHARGE OF FOG OR GREASE-LADEN WASTEWATER TO SANITARY SYSTEM WITHOUT APPROVAL OR FSE PERMIT IS PROHIBITED.

818.2.9.1 REINSTATEMENT. THE COMMISSION SHALL NOT REINSTATE A SUSPENDED OR REVOKED FSE WASTEWATER DISCHARGE PERMIT UNTIL THE FSE USER:

A. REQUESTS IN WRITING THAT THE EXISTING FSE WASTEWATER DISCHARGE PERMIT BE REINSTATED OR REISSUED.
B. IDENTIFIES THE STEPS TAKEN TO CORRECT ANY VIOLATION THAT LED TO THE SUSPENSION OR REVOCATION OF THE EXISTING FSE WASTEWATER DISCHARGE PERMIT.
C. UPON REVIEWING ALL THE REQUIRED INFORMATION PROVIDED, THE COMMISSION SHALL DECIDE WHETHER THE FSE USER'S REQUEST SHALL BE APPROVED.

[818.2.8]818.2.10 Permit transferability. The FSE Wastewater Discharge Permit shall not be reassigned or transferred without prior written approval by the Commission.

[818.2.9]818.2.11 Discharge fee. Issuance and validity of the FSE Wastewater Discharge Permit shall be conditional on payment [by the FSE] of the annual Discharge Fee as determined by the Commission. Failure to pay the Discharge Fee shall render the FSE Wastewater Discharge permit invalid **AND MAY RESULT IN ENFORCEMENT ACTON, INCLUDING A NOTICE OF VIOLATION, CIVIL CITATION, AND TERMINATION OF SERVICE**.

[818.2.10]818.2.12 Other permits. FSEs shall maintain the required County Health Department permits at all times. Failure to maintain health department permits may render the FSE Wastewater Discharge permit invalid.

818.3 Inspections. All FSEs **AND ONSITE GREASE SYSTEMS** are subject to routine inspections as determined by the Commission. (See Section 807).

818.4 Grease abatement system installation and maintenance requirements, general. When directed by the Commission, FSEs shall install and maintain a Commission approved grease abatement system that meets or exceeds minimum requirements cited in Section 302.10.

818.4.1 Wastewater discharge permittee/property owner's responsibility. Grease abatement systems shall be maintained in efficient operation at all times by the owner/operator at the owner's/operator's expense.

818.4.2 25% Rule. It shall be the Permittee's/Property Owner's responsibility to ensure that the accumulation of FOG and solids does not exceed 25% of the liquid retention capacity of the grease interceptor. If a grease interceptor is specifically designed to function properly with FOG and solids accumulation greater than 25%, the allowable accumulation of FOG and solids may be adjusted by the Commission on a case-by-case basis.

818.4.3 Maintenance and inspection intervals. The minimum maintenance frequency for Volume-Based Grease Interceptors, including cleaning, shall be quarterly, or shall be determined by the manufacturers' recommendations, or by the Code Official's directive, or by Section 818.4.2, "25% Rule", whichever is more stringent. Volume-Based Grease Interceptors shall be internally inspected annually by a qualified inspection service to determine needs for additional cleaning or repair work or other maintenance activities. The minimum maintenance frequency Flow-Based Grease Interceptors, including cleaning, shall be determined by manufacturers' recommendations, or by the Code Official's written directive, or by Section 818.4.2, "25% Rule", whichever is more stringent. Flow-based Grease Interceptors shall be inspected weekly so as to identify any operational or maintenance issues and to monitor compliance with the applicable maintenance requirements. Deviation from required maintenance intervals listed above shall be submitted to and approved or disapproved by the Commission in writing before implementation. The Commission shall maintain a list of all such approved deviations, and shall provide said list to MDE and EPA upon written request.

818.4.3.1 Maintenance documentation. The FSE, at all times, shall keep onsite written or electronic documentation of grease abatement system maintenance. This documentation must be in a format pre-approved by the Commission. For interceptors, a written or pre-approved electronic Commission grease hauler manifest record is required. For grease abatement system replacement, partial replacement, modification or additions/deletions, the FSE shall obtain prior Commission approval and all necessary plumbing permits.

818.4.3.2 Deviation. FSEs who deviate from the frequency of pumping or maintenance requirements of their Commission issued Maintenance Directive, without prior Commission approval, will be in violation and are subject to a civil citation at the discretion of the Code Official.

818.5 Notification of changed discharge. Any changes which affect the volume or characteristics of the wastewater discharge, including the addition of new production shifts, fixtures, or processes, shall be reported to the Commission in writing and approved at least 30 days before the proposed change. This notification shall also apply to the shutdown of any such processes, grease abatement systems, or facilities covered by a FSE discharge permit.

818.6 Waste hauler. A valid WSSC waste hauler discharge permit or zero discharge permit is required for all waste haulers performing pumping and cleaning services on grease abatement systems located in the Commission service area. Pumping and disposal of the contents shall be performed in accordance with conditions of the waste hauler discharge permit cited in Section 814. It is a violation of this Code for an FSE to allow an unpermitted waste hauler to perform pumping or cleaning services on the FSE's grease abatement system.

818.7 Use of additives. The introduction into the plumbing system of any surfactant, solvent, emulsifier, free enzymes or material that allows the grease to pass from the grease abatement system into the collection system is prohibited.

818.7.1 Conditional allowance. Use of a biological additive may be conditionally allowed with the Commission's approval if the product manufacturer or distributor can demonstrate to the satisfaction of the Commission that:

- **a.** The additive will not interfere with the normal operation of the grease interceptor.
- **b.** The additive will not interfere with operations of the receiving wastewater treatment plant.
- **c.** The use of the additive does not increase the potential for FOG to be discharged to the sanitary sewer.
- **d.** The only active ingredients are bacterial products.
- **e.** The use of the additive will not cause foaming in the sanitary sewer.
- **f.** The pH of the additive is between 6 and 10.

818.7.2 Additives not a substitute. The use of an additive will not substitute for the need for proper cleaning or maintenance of the grease and cannot be used as justification for altering the cleaning frequency.

818.7.3 Additive exception. Additives that are added to drain lines that do not connect to a grease abatement system are not impacted by this restriction.

818.7.4 Normal cleaning products. Normal kitchen and dish cleaning products are not considered additives for the purpose of this section.

818.8 On-Site plumbing system maintenance. The on-site plumbing system for commercial and multi-unit residential properties shall be maintained by, and at the expense of the property owner; including cleaning of the system due to grease related discharges. All jetted material must be removed at the nearest downstream manhole. Except in conjunction with a jetting operation, chemical cleaning of sewer lines is prohibited.

818.9 Violations.

818.9.1 Violations Include. Violations of the food service establishment shall include the following:

818.9.1.1 Grease abatement maintenance. Failure to properly maintain a grease abatement system

818.9.1.2 Records. Failure to keep or to present records of maintenance

818.9.1.3 Tampering flow control device. Unauthorized removal or tampering with the flow control device

818.9.1.4 FSE permit. Failure to present Food Service Establishment Discharge Permit

818.9.1.5 FSE wastewater permit. Failure to comply with any condition of a FSE Wastewater Discharge Permit

818.9.1.6 Waste hauler. Failure to use a permitted Waste Hauler for interceptor maintenance

818.9.1.7 Master plumber. Failure to use a WSSC-Licensed Master Plumber for correcting any and all enforcement actions that require plumbing work

818.9.1.8 Normal operation. Bypassing, tampering or otherwise preventing normal operation of a grease abatement system or grease interceptor.

818.9.1.9 Pass-through. Pass-through of observable and measurable amounts of FOG to the Commission's sewer service

818.9.2 Violation enforcement actions. Violations shall subject the FSE to penalties and other enforcement action as provided for in this Code and the Commission's FSE Enforcement Response Plan.

818.9.3 Repeated violations FBGI. Repeated violations for failure to clean or maintain a flow-based grease interceptor shall result in a requirement to install a volume-based grease interceptor as provided for in the Commission's FSE Enforcement Response Plan.

818.9.4 Repeated violations VBGI. Repeated violations for failure to clean or maintain a volume-based grease interceptor will subject the FSE to increased enforcement as provided for in the Commission's FSE Enforcement Response Plan.

CHAPTER 9 WATER RE-USE SYSTEMS

SECTION 901 GENERAL

901.1 Scope. Subject to outside approvals under Section 901.2 of this Code, this Chapter shall provide provisions to facilitate certain non-potable water uses in non-residential applications only. Uses may include toilet and urinal flushing, mechanical systems, equipment cooling irrigation (sub-surface, drip or spray), general hose bibb applications, or automatic or self-service vehicle washing operations. Additional authorities having jurisdiction may have additional requirements to ensure safety of water re-use systems, this includes plumbing fixture guidelines.

901.1.1 Exceptions. This chapter is not applicable to process water recycling which is unique to, and self-contained within, a specific water utilizing process such as vehicle washing, laundering, ice melt, or similar uses. These regulations also do not apply to residential use of rain barrels for outside irrigation, where the system does not comingle with the properties plumbing system.

901.2 Additional outside jurisdiction requirements. All centralized non-potable water use projects and decentralized non-potable water use projects must first be authorized by the appropriate county agencies having jurisdiction. The appropriate agencies having jurisdiction are responsible for oversight of the design, operation, maintenance, monitoring, recordkeeping and reporting requirements of the non-potable water projects. This includes establishing safe-minimum water quality standards for each intended non-potable water application and monitoring for compliance with the standards. At all times, in addition to the local county standards, all applicable federal and state water quality standards shall be met.

901.3 Definitions. In addition to the definitions included in Chapter 2 of this Code, the following definitions are specifically applicable to the provisions of this Chapter 9, Water Re-Use Systems.

"Blackwater" means a sanitary sewer flow containing human waste such as fecal matter or urine, or kitchen waste water.

"Centralized non-potable water systems" means a system of non-potable water that is treated and distributed from a central location, e.g., a wastewater treatment plant.

"Decentralized non-potable water systems" means a system of non-potable water that is collected, treated and used on location.

"Non-potable water" means water which is not reliably safe for drinking, personal use or culinary related use.

"Non-residential building or occupancy" means the classification non-residential shall apply to any building type or occupancy that does not meet the parameters of a Group R-3 occupancy as set forth in the International Building Code. Group R-3 occupancy classifications include single family homes and row style townhomes (single dwelling unit from bottom floor to top floor). All other building types or occupancies shall be deemed non-residential.

"Water re-use systems" means a variety of water recycling from the following sources: wastewater treatment plant effluent; graywater; rainwater; ground water; condensate; process and equipment discharge.

"Condensate re-use system" means a decentralized water re-use system that employs on-site treatment of captured condensate from refrigeration and air conditioning systems thereby producing recycled water for various specific non-potable water uses.

"Graywater system" means a decentralized water re-use system that employs on-site treatment of the discharge from specific plumbing fixtures such as bathtubs, showers, lavatory sinks, clothes washers, laundry tubs/trays, etc., thereby producing recycled water for various specific non-potable water uses.

"Groundwater re-use system" means a decentralized water re-use system that employs on-site treatment of captured groundwater from foundation drainage systems thereby producing recycled water for various specific non-potable water uses.

"Process water re-use system" means a decentralized water re-use system that employs on-site treatment of captured process wastewater from various systems thereby producing recycled water for various specific non-potable water uses.

"Rainwater harvesting system" means a decentralized water re-use system that employs on-site treatment of captured rainwater from rooftop and similar elevated decking areas thereby producing recycled water for various specific non-potable water uses.

"Reclaimed water" means enhanced wastewater effluent produced at a centralized municipal wastewater treatment plant, resulting in recycled water suitable for various, yet specific non-potable water uses.

901.4 Limitations. The Commission and this Code do not regulate the production and safety of non-potable water or ensure that non-potable water quality standards are being met.

SECTION 902 PERMIT

902.1 Permit. The installation of water re-use systems shall require a Long Form Permit where any such system includes any one of the following conditions:

902.1.1 Potable water connection. Any connection to potable water systems regardless of intended use, including manual or automatic feed; emergency back-up or routine supplementation.

902.1.2 Sanitary drainage connection. Any connection, whether direct or indirect.

902.1.3 Use within the building. Any utilization of non-potable water within the building, including toilet and urinal flushing, mechanical system make-up, and equipment cooling.

902.1.4 Shared space. Where any water re-use system or associated collection or distribution piping shares space with any other plumbing or mechanical system components.

902.2 Plans review required. Design plans, as required per Section 904.1 below, shall be submitted along with the required permit application for the Commission review.

SECTION 903 BACKFLOW PREVENTION AND METERING

903.1 Required testable backflow prevention assembly. The interconnection between a potable water distribution system and a water re-use system shall be protected against backflow with an RPBA (ASSE 1013) backflow prevention assembly or equivalent. The interconnection shall be limited to whole system supply connection(s) and not permitted on a per fixture or a per equipment basis.

903.2 Required Commission meter. Water re-use systems shall be metered to account for discharges to the sanitary sewer as follows:

903.2.1 Standard details. Sewer-only meters shall be installed following the Commission standard details.

903.2.2 Location. Where possible, the meter shall be located downstream of the water treatment process. The meter shall be located within a pressurized section of the treatment system for water re-use system and downstream of a 100-micron filter.

903.2.3 Treatment waste and backwash. Liquid waste or backwash generated from the non-potable water treatment process shall be:

903.2.3.1 Redirected. Directed back to the head of the treatment process, where possible; or

903.2.3.2 Metered. Metered and discharged to the sanitary sewer.

903.2.3.3 Chapter 8. All discharges to the sanitary sewer system must comply with the Commission regulations outlined in Chapter 8, Industrial and Special Waste.

903.2.3.4 Hauled. Where these conditions cannot be met, the waste shall be hauled away and disposed of properly.

903.2.4 Exception for graywater systems. Where graywater or similar systems receive the waste stream from plumbing fixtures or equipment that is served with Commission metered water, additional sewer-only metering is not required.

SECTION 904 SYSTEM DESIGN

904.1 General. Treatment systems for water re-use systems and associated collection and distribution piping shall be designed by a registered Professional Engineer.

904.1.1 Construction documents. Design plans shall include plan views, including exterior tanks and associated piping, complete elevation schematics, and corresponding equipment schedules. Zoom and scale shall be adequately enlarged to facilitate a clear understanding of all equipment, appurtenances and flow direction.

904.2 Sources. The sources of water for water re-use systems shall include the following:

904.2.1 Graywater. Bathtubs, showers, lavatory sinks, clothes washers and laundry trays.

904.2.2 Rainwater. Rooftop drainage systems and elevated patios, decks, and similar.

904.2.3 Groundwater. Subsurface foundation drain systems and similar.

904.2.4 Condensate. Refrigeration and air conditioning condensate.

904.2.5 Clear process waste. Equipment cooling, steam recovery, ice melt, fire pump test, and similar CLEAR process waste.

904.3 Prohibited Sources.

904.3.1 Blackwater. Urine, fecal waste, kitchen waste, and similar.

904.3.2 Blood borne waste. Hospitals, Laboratories, Morgues.

904.3.3 Industrial waste. Untreated industrial waste.

904.3.4 Surface water. At grade surface run-off or at grade ponded or standing water.

904.3.5 Vehicle generated waste. Parking lots, decks, or garages; vehicle service centers; vehicle washing operations; and similar.

904.4 Reclaimed water. Treated wastewater treatment plant effluent differs from other water re-use systems in that the treatment process is performed at the municipal level, offsite from the use. It is then piped to the property in a municipal utility approved manner, but then is distributed and used on property as required of other water re-use systems described in this Code. Uses for reclaimed water are limited to the uses set forth by the Maryland Department of the Environment. This use is synonymous with centralized non-potable water systems.

904.5 Minimum water quality standard. It is the responsibility of the appropriate State and County Government Agencies to establish water quality standards. At a minimum, non-potable water produced for plumbing, mechanical and industrial process, as allowed by this Code, shall meet the parameters set forth by the Maryland Department of the Environment – Class IV effluent water quality standard, or other equivalent standards established by local authorities.

904.6 Collection piping. All collection piping within a building shall be designed and installed in accordance with IPC Chapters 3, 7, 9 and 10 as adopted by this Code. Marking and labeling shall be required of all collection piping, above and below grade, whether under gravity flow or pump pressure conditions.

904.6.1 Graywater collection piping. Graywater collection piping systems and associated collection reservoirs/sumps shall be protected from the sanitary sewer system by segregation, an air gap or a backwater valve.

904.7 Distribution piping.

904.7.1 Design and installation. All distribution piping shall be designed and installed in accordance with IPC Chapter 3 and 6 as adopted by this Code.

904.7.2 Marking and labeling. All piping and pipe covering shall be marked and labeled pursuant to IPC Section 608.8. Fixture and equipment supply shut-off valves shall be tagged to alert service technicians of the origin and nature of the non-potable water.

904.7.3 Potable water back-up. Potable water shall be interconnected in adequate supply and volume to support the fixture demand in the event of system failure or removal. See Section 903.1 of this Code.

904.7.4 Water coloring. Non-potable water does not require coloring. Where coloring is specified by the designer, caution shall be used to ensure permanent staining of fixtures will not occur.

904.8 Storage tanks.

904.8.1 Construction. When installed above or below grade, storage tanks shall be constructed to withstand internal and external forces whether the tank is empty or full.

904.8.2 Drain and overflow. The drain and overflow of a storage tank to the sanitary sewer is only allowed for graywater systems and similar systems that re-use effluent or wastewater (e.g., reclaimed water and process water), where upstream processes used Commission metered water. All other unmetered discharges (e.g., rain water, condensate, and groundwater) shall be routed to the storm water system in accordance with relevant standards.

904.8.3 Storage tank air gap or backwater valve. Where possible, an air gap shall be provided between the drain/overflow of a storage tank and its sanitary drain receptor. In lieu of an air gap, a backwater valve may be installed downstream of a storage tank directly discharging to the sanitary sewer to protect the tank from back-up within the building drainage system. When directly connected, both drain and overflow shall discharge into a vented trap. Whether direct or indirect, traps serving water re-use storage tanks shall include automatic trap priming devices.

904.8.4 Storm sewer connection. When a water re-use system is connected to or discharges to storm sewer, the water re-use system collection piping, tanks, drains and overflows shall be protected from storm sewage backflow by air gap or backwater valve.

904.9 Roof washer system. Rainwater harvesting systems shall be outfitted with debris excluders or similar devices. It is recommended that roof washing systems be designed to automatically divert a sufficient volume of initial rainfall to effectively clean the roof or collection surface of undesired debris and contaminates.

904.10 Combination systems. Multiple sources may be used to provide make-up to a single non-potable water treatment systems as follows:

904.10.1 Collection system segregation. unless otherwise approved by the Code Official, each type of source water shall be independently routed to the treatment and storage components.

904.10.2 Metering. Before joining source waters together for treatment, metering of all unmetered source waters shall be accomplished. Source waters shall be filtered through a minimum of a 100-micron filter.

904.10.3 Overflow and backwash. Collection overflows and filtration backwash water shall be routed to their required corresponding collection systems (e.g., rainwater to storm sewer, graywater to sanitary sewer, etc.)

SECTION 905 DISCLOSURE AND SIGNAGE

905.1 Distribution piping. Distribution piping and supply shut-off valves shall be marked, labeled and tagged in accordance with Section 904.7.2.

905.2 Commercial, industrial and institutional restrooms. Each restroom in these various occupancies shall have, at a minimum, one disclosure sign posted in a conspicuous location. The lettering shall be highly visible and a minimum of a 1/2 inch (30.4 mm) in height on a contrasting background with the following text: caution: non-potable water used for toilet and urinal flushing" or a sign approved by Code Official.

905.3 Water re-use equipment room. In all water re-use system equipment rooms there shall be one or more disclosure signs, as needed. Each sign provided shall have highly visible lettering a minimum of a 1/2 inch (30.4 mm) in height on a contrasting background with the following text:

"This building utilizes a water re-use system that produces non-potable water for" ; and

describe use of water re-use system; and

"Prior to commencing any plumbing or mechanical work on premises, by law you must consult with the system operator."

or a sign approved by Code Official.

SECTION 906 OPERATIONS AND MAINTENANCE

906.1 Approved operators. Water Re-use Systems shall be operated and maintained by qualified technicians. Licensing and qualification credentials for technicians, if any, will be established by the county agency having jurisdiction.

906.2 Operation, maintenance, recordation and reporting. Operation, maintenance, recordation and reporting shall be performed consistent with the approvals to operate the system granted by the jurisdiction having authority as described in Section 901. Failure to properly operate, maintain, record or report the system shall constitute a violation of this Code and the water re-use system may be subject to a shut-down order requiring a disconnection of the system and supplying all related plumbing fixtures with potable water.

906.3 Minimum water quality. When minimum required water quality standards cannot be met, the water re-use systems shall be completely bypassed and supplied with potable water through an adequately sized interconnection. Distribution piping shall be purged and disinfected as needed.

906.4 System shut-down and removal. Long term shut down or removal of a water re-use system shall be done under a Short Form Permit. Collection piping shall be re-routed directly to the sanitary or storm water systems as applicable. Interconnection between the treatment system and the potable water mains shall be permanently divorced. Existing distribution piping shall be purged and disinfected as needed. Re-activation requires the same approvals as a new system.

906.5 Conveyance of non-potable water system during changes in ownership or building occupancy. The new owner or tenant shall be notified of all the details related to the non-potable water system including operations, maintenance, monitoring, recordkeeping and reporting documents. All responsibilities shall be officially transferred to, and carried-out by, the new owner or tenant and the jurisdiction having authority shall be notified of the changes in ownership or occupancy.

906.6 Detailed guidelines. The Environmental Protection Agency's 2012 Water Reuse Guidelines and the 2011 National Sanitation Foundation – NSF/ANSI 350 may be utilized for additional detailed guidelines for design, operation, maintenance and monitoring requirements of the non-potable water systems.

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APPENDIX A

RESIDENTIAL SYSTEM DEVELOPMENT CHARGE

Fixture Code Revisions Effective 9-2-13

Code	Fixture Description	SDC Water Charge	SDC Sewer Charge
R0	Bathtub (Residential)	YES	YES
4B	BFP - Testable	-	-
4C	BFP - Non-Testable	-	-
R1	Bidet	YES	YES
RW	Clothes Washer Standpipe/Box	YES	YES
RR	Clothes Washer (water only)	YES	-
R2	Dishwasher (Residential)	YES	YES
68	Ejector Pump	-	-
F3	Faucet - Pot Filler	YES	-
R5	Floor Drain (primed)	-	-
GP	Grinder Pump - Unknown Type	-	-
R7	Hose Bibb	YES	-
RP	Hose Bibb on Well	-	-
R9	Humidifier (Residential type)	-	-
RA	Ice Maker (Residential type)	-	-
RC	Instant Hot	-	-
RH	Lawn Sprinkler - 3/4" Water Supply	YES	-
RI	Lawn Sprinkler -1" & Larger Water Supply	YES	-
MO	Modular Unit	-	-
RJ	Pool Fill	YES	-
RK	Sauna (with water) / Steamer	YES	-
RL	Shower Stall	YES	YES
RM	Sink (Bar)	YES	YES
RN	Sink (Kitchen)	YES	YES
RF	Sink (Laundry Tray)	YES	YES
RG	Sink (Lavatory)	YES	YES
RB	Water Closet (Flush Tank 1.6 gpf)	YES	YES
WS	Water Conditioner	-	-
60	Water Heater - Not Gas	-	-

APPENDIX A - CONTINUED

Code	Fixture Description		
8F	Gas - Boiler (under 200K)	-	-
XB	Gas - Boiler (200K+)	-	-
VP	Gas - Cooking Equipment	-	-
87	Gas - Dryer	-	-
VQ	Gas - Generator	-	-
VN	Gas - Heater (Construction)	-	-
8T	Gas - Heater (Decorative)	-	-
6A	Gas - Heater (Pool)	-	-
8N	Gas - Heating Equipment	-	-
85	Gas - Lab Burner	-	-
8G	Gas - Other	-	-
XX	Gas - Paint Booth	-	-
9D	Gas - Test	-	-
8D	Gas - Water Heater (under 200K)	-	-
XD	Gas - Water Heater (200K+)	-	-

1. Permits must accurately reflect **EVERY** fixture code to be installed for **ALL** residential and apartment units, and renovation projects. **Permits that do not reflect 100% fixture accuracy will FAIL inspection.** Modifications to the permit must be made and "updated" in the Permits system prior to scheduling an inspection.

2. Fixture unit values shown in this chart shall be used ***only*** for calculating System Development Charges. For system design and hydraulic calculations, use the fixture unit values shown in the International model codes.

3. For fixtures not listed, the Code Official shall use the value of a fixture with similar flow characteristics.

APPENDIX B

NON-RESIDENTIAL SYSTEM DEVELOPMENT CHARGE

Fixture Code Revisions Effective 9-2-13

Code	Fixture Description	SDC Water Charge	SDC Sewer Charge
AS	Alternate Water System	-	-
7N	Backwash Surge Tank (2" max. drain)	-	YES
79	Baptistery	YES	YES
1	Bathtub	YES	YES
4B	BFP - Testable	-	-
4C	BFP - Non-Testable	-	-
15	Bidet	YES	YES
7M	Booster Pump	-	-
96	Clothes Washer Standpipe/Box	YES	YES
9W	Clothes Washer (Water Only)	YES	-
4V	Cooling Tower (Water Supply 1" & smaller)	YES	-
4U	Cooling Tower (Water Supply 1-1/4" & larger)	YES	-
4W	Dental Cuspidor to OSD	YES	-
4X	Dental Cuspidor w/drain	YES	YES
77	Dip Well	YES	-
3	Dishwasher (Residential Type)	YES	YES
44	Dishwasher (Commercial)	YES	YES
7F	Disposal (Commercial 2")	YES	YES
71	Disposal (Commercial 3")	YES	YES
DS	Drain to Storm	-	-
18	Drinking Fountain	YES	YES
BU	Drinking Fountain - No Drain	YES	-
68	Ejector Pump	-	-
1B	Emergency - Eye Wash	YES	-
1A	Emergency - Shower	YES	-
F1	Faucet - Commercial Kitchen	YES	-
F2	Faucet - Hand Sink	YES	-
F3	Faucet - Pot Filler	YES	-
F4	Faucet - Service Sink	YES	-
FH	Fire Hydrant	-	-
73	Fire Sprinkler Connection	-	-
UX	Floor Drain (primed)	-	-
UM	Floor Drain (not primed)	-	-
FV	Flush Valve	YES	-

APPENDIX B - CONTINUED

Code	Fixture Description	SDC Water Charge	SDC Sewer Charge
8F	Gas - Boiler (under 200K)	-	-
XB	Gas - Boiler (200K+)	-	-
VP	Gas - Cooking Equipment (All)	-	-
87	Gas - Dryer	-	-
VQ	Gas - Generator	-	-
VN	Gas - Heater (Construction)	-	-
8T	Gas - Heater (Decorative)	-	-
6A	Gas - Heater (Pool)	-	-
8N	Gas - Heating Equipment	-	-
85	Gas - Lab Burner	-	-
8G	Gas - Other	-	-
XX	Gas - Paint Booth	-	-
8U	Gas - Sub-meter	-	-
9D	Gas - Test	-	-
8D	Gas - Water Heater (under 200K)	-	-
XD	Gas - Water Heater (200K+)	-	-
GP	Grinder Pump - Unknown Type	-	-
69	Grease Interceptor	-	-
6D	Grease Recovery Device	-	-
6F	Grease Trap	-	-
9X	Hose Bibb (wall hydrant, etc.)	YES	-
RP	Hose Bibb on Well	-	-
67	Humidifier (Residential Type)	-	-
75	Ice Maker (Residential Type)	YES	-
MP	IDC Monitoring Port	-	-
4	Instant Hot	-	-
BG	Irrigation System w/3/4" supply	YES	-
BH	Irrigation System w/1" supply	YES	-
BI	Irrigation System w/1-1/4" supply	YES	-
BJ	Irrigation System w/1-1/2" supply	YES	-
BK	Irrigation System w/2" supply	YES	-
M1	Mechanical Supply Closed Loop	-	-
MS	Minor Site-Utility(On-site)System Inspection	-	-
MO	Modular Building	-	-
65	Oil/Sand Interceptor	-	-
MH	On-Site Manhole	-	-

APPENDIX B - CONTINUED

Code	Fixture Description	SDC Water Charge	SDC Sewer Charge
DG	Receptor Drain 1-1/4"	-	YES
DH	Receptor Drain 1-1/2"	-	YES
50	Receptor Drain 2"	-	YES
51	Receptor Drain 3"	-	YES
52	Receptor Drain 4"	-	YES
54	Receptor Drain 6"	-	YES
FC	Pool Fill (1/2" supply)	YES	-
FD	Pool Fill (3/4" supply)	YES	-
FE	Pool Fill (1" supply)	YES	-
FF	Pool Fill (1-1/4" supply)	YES	-
FG	Pool Fill (1-1/2" supply)	YES	-
FI	Pool Fill (2" supply)	YES	-
5E	Pre-Treatment Unit	-	-
97	Private Meter	-	-
RU	Re-piping	-	-
62	Roof Drain	-	-
AC	Shell Permit Sewer Rough-In	-	-
AB	Shell Permit Water Rough-In	-	-
JH	Shower Stall (1-1/4" drain)	YES	YES
JI	Shower Stall (1-1/2" drain)	YES	YES
JJ	Shower Stall (2" drain)	YES	YES
JW	Shower Stall (3" drain)	YES	YES
WG	Shower, per head, gang/column	YES	-
26	Sink - Clinical (Flush Valve)	YES	YES
WL	Sink - Compartment (one faucet)	YES	-
WN	Sink - Compartment (two faucets)	YES	-
4A	Sink - Hand	YES	YES
21	Sink - 1-1/2" Drain	YES	YES
SK	Sink - 2" Drain	YES	YES
WA	Sink - Laundry Tray (with clothes washer)	YES	YES
47	Sink - Laundry Tray (without clothes washer)	YES	YES
20	Sink - Lavatory - Common	YES	YES
JS	Sink - Mop or Service (1-1/2" trap)	YES	YES
JT	Sink - Mop or Service (2" trap)	YES	YES
JU	Sink - Mop or Service (3" trap)	YES	YES
WO	Sink - Wash Fountain	YES	YES

APPENDIX B - CONTINUED

Code	Fixture Description	SDC Water Charge	SDC Sewer Charge
YO	Spray - Hand Held	YES	-
12	Urinal	YES	YES
UD	Urinal - Waterless	-	59
U2	Water Closet - Flush Tank (Non-public)	YES	YES
U4	Water Closet - Flush Tank (Public)	YES	YES
U3	Water Closet - Flush Valve (Non-public)	YES	YES
U5	Water Closet - Flush Valve (Public)	YES	YES
WS	Water Conditioner	-	-
WT	Water Dispenser	YES	-
60	Water Heater - Not Gas	-	-
HT	Water Storage Tank	-	-
WR	Water Supply Only 3/8"	YES	-
YE	Water Supply Only 1/2"	YES	-
YD	Water Supply Only 3/4"	YES	-
YC	Water Supply Only 1"	YES	-
YB	Water Supply Only 1-1/4"	YES	-
YA	Water Supply Only 1-1/2"	YES	-
WZ	Water Supply Only 2"	YES	-
2H	Water Supply Only 2 1/2"	YES	-
WY	Water Supply Only 3"	YES	-
WX	Water Supply Only 4"	YES	-
WW	Whirlpool, Therapeutic (water only)	YES	-

1. Permits must accurately reflect **EVERY** fixture code to be installed for **ALL** residential and apartment units, and renovation projects. **Permits that do not reflect 100% fixture accuracy will FAIL inspection.** Modifications to the permit must be made and "updated" in the Permits system prior to scheduling an inspection.

2. Fixture unit values shown in this chart shall be used ***only*** for calculating System Development Charges. For system design and hydraulic calculations, use the fixture unit values shown in the International model codes.

3. For fixtures not listed, the Code Official shall use the value of a fixture with similar flow characteristics.

Legal Review of Regulation

As requested, the following Regulation has been reviewed as required by Chapter 1.42 of the WSSC Manual of Standard Procedures:

WSSC Code of Regulations
Title 14: Regulatory Services
Subtitle II: Plumbing and Gas Fitting
Chapter 14.25: Plumbing and Fuel Gas Code

1. Legal Sufficiency Review:

The substance of this Regulation has been reviewed and determined to be legally sufficient.

If not legally sufficient, details provided below:

N/A

2. Approval Authority

The Commissioners have the authority to adopt this Regulation.

3. Regulation or Non-Regulation

The 2024 Plumbing and Fuel Gas Code meets the definition of a Regulation under Chapter 1.42 of the WSSC Manual of Standard Procedures.

Charles L. Frederick
Associate Counsel

9 September 2025
Date

WSSCWATER
DELIVERING THE ESSENTIAL

2026 State Legislative Proposals

Intergovernmental Relations Office

Monica Marquina, Government Affairs Director
Kenneth Simons, Government Affairs Manager

September 17, 2025

PRESENTATION FOR INFORMATIONAL PURPOSES

Agenda

- WSSC Water-Sponsored Legislative Proposals
  - Modernization of Office of Supplier Diversity and Inclusion Business Programs and Practices
  - Statewide Water Assistance Program

Modernization of Office of Supplier Diversity and Inclusion (OSDI) Business Programs and Practices

A. Expand Scope of OSDI (PUA §20-201)
B. Modernize Small Local Business Enterprise (SLBE) Framework (PUA §20-301)
C. Broaden Business Categories (PUA §20-304)
D. Establish WSSC Water Small-Business Size Standards (PUA §20-304)
E. Vendor Verification Authority (modeled on SFPA §14-501 et seq.)

Modernization of OSDI Business Programs and Practices Cont.

A. Expand Scope of OSDI (PUA §20-201)

OSDI proposes expanding the scope of PUA §20-201 to include vendor development, subcontracting, compliance monitoring, reporting, and recognition of economic opportunity.

B. Modernize SLBE Framework (PUA §20-301)

OSDI proposes modernizing PUA §20-301 to broaden categories, authorize preferences, codify subcontracting, add certification reciprocity, self-certification, and thresholds.

C. Broaden Business Categories (PUA §20-304)

OSDI proposes broadening the statutory authority of PUA §20-304 to include veteran-owned, regional, and other categories.

Modernization of OSDI Business Programs and Practices Cont.

D. Establish WSSC Water Small-Business Size Standards (PUA §20-304)

OSDI proposes modifying PUA §20-304 to authorize WSSC Water to adopt its own size standards, providing flexibility to reflect local market capacity while remaining aligned with state practices.

E. Vendor Verification Authority (modeled on SFPA §14-501 et seq.)

This proposal would authorize WSSC Water to verify vendors, modeled on the state's self-certification framework under SFPA §14-501 et seq.

Statewide Water Assistance Program

This proposal would authorize the establishment of a statewide Water Affordability Assistance Program under the Maryland Department of Human Services to assist financially disadvantaged communities/income-constrained customers with their water utility bills.

WSSCWATER
DELIVERING THE ESSENTIAL

Questions?

WSSCWATER
DELIVERING THE ESSENTIAL

WSSCWATER
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COMMISSION SUMMARY

AGENDA CATEGORY: Commission Office
ITEM NUMBER: 16.A **DATE:** September 17, 2025

SUBJECT	Resolution 2025-2403 Appointment of Board of Ethics Member
SUMMARY	The Board of Ethics Search Committee recommends the appointment of Michael Kraft to the Board of Ethics.
SPECIAL COMMENTS	N/A
CONTRACT NO./REFERENCE NO.	NA
COSTS	N/A
AMENDMENT/CHANGE ORDER NO. AMOUNT	N/A
MBE PARTICIPATION	N/A
PRIOR STAFF/COMMITTEE REVIEW	Search Committee Members: Inspector General Jon Rymer Corporate Secretary Julianne Montes de Oca Audit Committee Member Carol Boothe
PRIOR STAFF/COMMITTEE APPROVALS	N/A
RECOMMENDATION TO COMMISSION	Adopt Resolution 2025-2403
ATTACHMENTS	Resolution 2025-2403

Resolution Number: 2025-2403
Adopted: September 21, 2025
Effective: September 21, 2025

WASHINGTON SUBURBAN SANITARY COMMISSION

SUBJECT: A RESOLUTION appointing the Montgomery County Member of the Washington Suburban Sanitary Commission ("WSSC") Board of Ethics.

WHEREAS, Pursuant to WSSC Code of Regulations ("WSSC Code") Chapter 1.70 – "Code of Ethics," and Chapter 1.60 – "Appointment of Board of Ethics Members," the Commission is authorized to appoint three regular members to the WSSC Board of Ethics and an alternate member; and

WHEREAS, Chapter 1.60, Title I, Subtitle III of the WSSC Code, further provides that one member of the Board of Ethics shall be nominated by the Montgomery County Commissioners; and one member shall be nominated by the Prince George's County Commissioners; with the third regular member and any alternate member to be nominated by any member of the Commission; and

WHEREAS, An opening currently exists for the third regular at large member due to the term expiration of At Large Member, Jeff Hysen; and

WHEREAS, The open Board position was advertised in various publications with applicants interviewed and a slate of the highest-ranking candidates recommended by the Board of Ethics Search Committee to the Commissioner for selection of the nominee for appointment, in accordance with Chapter 1.60 of the WSSC Code; and

WHEREAS, The Commission has reviewed the candidates and Search Committee's recommendations and has determined to nominate Michael Kraft, for appointment to the WSSC Board of Ethics for the respective position, for an initial term of three years, beginning September 21, 2025; and

NOW, THEREFORE, BE IT RESOLVED, this _____ day of September 2025, that the Commission hereby approves the appointment of Michael Kraft as the At Large member of the WSSC Board of Ethics for a term of three years, beginning September 21, 2025.

ATTEST:

_____
Julianne M. Montes de Oca
Corporate Secretary

WSSCWATER
DELIVERING THE ESSENTIAL

Interoffice Memorandum

TO: COMMISSIONERS

FROM: JULIANNE M. MONTES DE OCA
CORPORATE SECRETARY

DATE: SEPTEMBER 10, 2025

SUBJECT: AMENDMENT TO MINUTES OF JULY 17, 2024

This memo is to explain the procedures for correcting an error in a vote occurring during the July 17, 2024 Regular Commission Meeting. Per Robert's Rules of Order, the remedy is a motion to amend the July 17, 2024 minutes by striking the incorrect information and replacing with the correct information.

Background:
The summer of 2024 was the first year the Commission observed an August recess. To ensure all contracting matters were handled in advance of the August recess, two contracts were approved via resolution. Resolution 2024-2372 delegated to the General Manager/CEO authority to sign Contract 48199 and Change Order 4 for Contract 1148. The resolution contained the contract number and name, amount, and vendor name. Contract 48199 was described as, "Building Maintenance for a two-year period in the amount of $2,827,766.84 to Professional Facility Services, LLC." As reported by the Office of Inspector General in its investigative report for case 339, although the proposal was submitted under the name "Professional Facilities Services, LLC," the entity entering the proposal was Community Bridge, Inc ("CBI") and the contracting documents were executed with CBI.

Robert's Rules of Order
To fix an error in a previously approved resolution, Robert's Rules of Order distinguishes between whether action has already been taken on the resolution or not. If action has been taken, a motion to amend or rescind the original resolution would be fruitless (35:6(b)). The remedy is to amend the minutes of the meeting where the resolution was approved (48:15). Here, the contracts authorized by Resolution 2024-2372 were executed in August of 2024. As a result, the proper remedy is to amend the minutes of July 17, 2024, to strike the name "Professional Facilities Services, LLC" and insert the name "Community Bridge, Inc."