

 Marathon Petroleum Company LP		REFINERY-WIDE		R-14-013
ANACORTES REFINERY		Domestic (Potable) Water System		Page 1 of 8
RESPONSIBLE DEPT.	CONTENT CUSTODIAN	APPROVED BY	LEGACY NUMBER:	
HES&S	Neil Norcross	Paul Zawila	SR-65	
REVISION APPROVAL DATE: 07/13/2022		NEXT REVIEW DATE: 03/03/2026		MOC: N
				REVISION: 0

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1.0 INTRODUCTION

1.1 Purpose

The purpose of this Safety Regulation is to document the Anacortes Refinery domestic or potable water operating and reporting guidelines.

1.2 Scope

This procedure applies to all Marathon employees and contractors.

2.0 REFERENCES

2.1 Marathon Standards, Policies & Procedures

- Marathon ESS&PQ standard – HLT-2036 – Sections 6.0, 7.0 and 8.0

2.2 Government Regulations

- Washington Administrative Code - WAC 246-290-490
- City of Anacortes Municipal Code - Chapter 13.24

3.0 DEFINITIONS

The following definitions are applicable to this procedure.

Table 1 Acronyms

Term	Description
Approved backflow preventer	Means an approved air gap, an approved backflow prevention assembly, or an approved AVB. The requirements of WAC 246-290-490 do not apply to backflow preventers installed for other purposes.
Consumer's water system	as used in WAC 246-290-490, means any potable or industrial water system that begins at the point of delivery from the public water system and is located on the consumer's premises. The consumer's water system includes all auxiliary sources of supply, storage, treatment, and distribution facilities, piping, plumbing, and fixtures under the control of the consumer.
Potable water	means water suitable for drinking by the public.
Public water system	means any system providing water for human consumption through pipes or other constructed conveyances
Unapproved auxiliary water supply	means a water supply (other than the purveyor's water supply) on or available to the consumer's premises that is either not approved for human consumption by the health agency having jurisdiction or is not otherwise acceptable to the purveyor.

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4.0 BACKGROUND

Any system that provides water for human consumption, (except for a private residence or farm) is a Public Water System. Human consumption doesn't just mean drinking the water; it also includes the use of water for showering, hand washing, food preparation, cooking, and cleaning of pot, pans and dishes.

Marathon Anacortes Refinery's domestic water system is classified as a Group A Non-transient Noncommunity (NTNC) public water system, because it serves more than twenty-five of the same nonresidential people for more than one hundred eighty days within a calendar year.

With the installation of a dedicated water line in 2007, the refinery's domestic water system meets all of the following exemption criteria per WDOH Policy A.6 and is exempt from the requirements of WAC 246-290-300.

- The system consists of only distribution and/or storage facilities and does not treat the water;
- The system obtains all of its water from a public water system;
- The system does not sell water directly to any person; and
- The system is not a passenger-conveying carrier in interstate commerce.

An approval letter to de-regulate the refinery's domestic water system was issued by the Washington Department of Health on November 7, 2007 (Attachment 1). The de-regulation of the water system also relieves the Refinery of state and EPA mandated water quality testing requirements. The refinery is still required to be in compliance with the plumbing codes.

5.0 PROCESS DESCRIPTION

5.1 State Identification

The refinery has been registered with the following State ID number:

PWS ID#780501
Skagit County

5.2 Domestic Water System

The refinery's water is purchased from the City of Anacortes Water Treatment Plant. The water is drawn from the Skagit River and treated at the city plant before it is put into the city's potable water distribution system. The city's potable water supply line enters the refinery at the south end. A 28,000 gallon holding tank provides potable water to the refinery for several hours when water is shut off by the city.

5.3 System Pressure

A booster pump (P-8011) discharging at about 120 psig is required to supply domestic water to a number of connections within the refinery (Crude Unit, CR/NHT, Rail Car and Truck Loading).

The Alky Plant, utilizes a booster pump (P-9002) discharging around 80 psig, and the Effluent control house, utilizes another booster pump (P-719). P-719 is normally "OFF" and is used for loading water to the ships at the wharf at a discharge pressure of about

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135 psig. The effluent control house domestic water supply is taken just upstream of the suction of the pump.

Most of the remaining connections depend upon city supply.

5.4 Service Connections

There are 20 permanent service connections that are directly tied into the domestic water header within the Refinery. See the attached drawing (Attachment 2, SK-24000) "Refinery Domestic Water System - Simplified Diagram".

- | | |
|-------------------------|------------------------------|
| 1. Zone C Control House | 11. Stores |
| 2. CR/NHT | 12. Garage |
| 3. Crude | 13. Lab |
| 4. Tank Car Loading | 14. Change Rooms |
| 5. Truck Loading | 15. Cafeteria and Training |
| 6. CCU | 16. Administration Bldg |
| 7. Boiler House | 17. Effluent |
| 8. Alky | 18. Wharf |
| 9. Shop 1 | 19. TERA Building/Campground |
| 10. Shop 2 | 20. Blender Lab |

5.5 Cross Connections

There shall be no cross-connection, open or potential, between a system furnishing potable water and a system furnishing non-potable water, or carrying wastewater. (MPC Standard HLT-2036 Section 6.0).

6.0 BACKFLOW PREVENTION TESTING PLAN

Whenever domestic water lines have a potential to be connected to a non-potable water supply, there shall be a backflow prevention device installed to prevent contamination due to "back siphonage" or "back pressure".

In RCW 19.27.031, the state has mandated that the standards of the Uniform Plumbing Code are in effect in all counties and cities of the state. To comply with these standards the WSDOH regulates backflow prevention devices per WAC 246-290-490. This regulation provides a list Washington State approved backflow prevention assemblies. By following the state testing regulation the refinery meets the requirements of MPC Standard HLT-2036 Section 8.0.

We currently have nine RPBA (Reduced Pressure Backflow Assembly) devices on site:

1. Wharf - Model 825 YD 3" Febco S/N 1210030533
2. Blender Lab Building, Cooling Coil on octane engines, 1 1/2" Watts model 009M1 S/N 51548
3. Blender Lab Building, Lab sink hot water - 3/4" Watts Model 007M2 S/N 05833
4. Blender Lab Building, Lab sink cold water - 3/4" Watts Model 007M2 S/N 219118
5. Air Products Oxygen Plant – (owned by Air Products) Cooling Tower – 3/4" Apollo Model RP4A S/N 385834

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6. Operations Central Control Room – Model 860 Febco 1" S/N H16185
7. West Cafeteria, Dishwasher – Conbraco Model 40203T2 ½" S/N 186512
8. F Street vault, Tank 269 – Conbraco Model 40-20003 6" S/N NW052
9. Old Motor Lab, North wall – WATTS Model 009 QT ½" S/N 166209

RPBA's are on an annual inspection and reporting program. The refinery must use a plumbing contractor certified by the State of Washington to perform testing, reporting, and repairs, if needed. An annual SAP repeat maintenance ticket ensures the testing is performed. Zone C is responsible for ensuring the testing is performed. Environmental obtains copies of the reports from the certified plumbing contractor and files the reports with the City of Anacortes. Reports are kept in R:Environmental/Domestic Water folder of the Refinery server. For the RPBA in the Oxygen Plant, Marathon notifies Air Products that testing technician will be on site. Air Products personnel have their RPBA tested at that time.

6.1 Roles and Responsibilities

Role	Responsibility
Clearly label all non-potable water connections per Marathon Standard HLT 2036, Section 7.0	Maintenance
RPBA Annual Inspection Contractor Scheduling	Zone C Maintenance Coordinator
RPBA Testing	Certified Plumbing Contractor
Coordination of Air Products RPBA	Zone C Maintenance Coordinator
Reporting and Records Retention	Environmental Water Compliance Engineer

7.0 CONTACTS

1. City of Anacortes Water Treatment Plant
(360) 428-1598
2. State of Washington Dept. of Health Northwest Drinking Water Operations
(253) 395-6760
3. Skagit County Health Department
(360) 336-9380
4. City of Anacortes, Water Maintenance
(360) 293-1921
5. Skagit County Health Department
(360) 336-9380

8.0 TRAINING

None required.

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9.0 REVIEW AND REVISION HISTORY

Revision #	Preparer	Date	Description
0	Neil Norcross	7/13/2022	Added references to MPC Standard HLT-2036. Added Section 5.5 Cross Connections. Added three RPBA's that were not listed. Removed <i>Commercial Plumbing</i> and changed wording to <i>certified plumbing contractor</i> . SR-65 updated with all changes included here. Reformatted and numbered per Document Control Policy R-63-001.

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10.0 ATTACHMENT 1 – DOH APPROVAL LETTER TO DEREGULATE MARATHON ANACORTES REFINERY’S DOMESTIC WATER SYSTEM



STATE OF WASHINGTON
DEPARTMENT OF HEALTH
20435 72nd Ave. S., Suite 200, K17-12• Kent, Washington 98032 -2358

November 7, 2007

ROBERT GILBERT
TESORO NORTHWEST COMPANY
PO BOX 700
ANACORTES, WA 98221

Subject: Tesoro Water System (ID# 780501)
Skagit County
Modifications to Bypass Uncovered Storage Reservoir
Submittal #06-1104

Dear Mr. Gilbert:

This letter acknowledges receipt of the construction report for the subject water system that was signed by Ian G. McClure, P.E. The report indicates that the project has been completed according to plans and specifications which were approved by this office. All of the provisions of the approval have been met and this project may now be placed into service.

Your request to deregulate your public water system under our purchasing systems policy (A.06) is hereby approved. We will change our records to indicate that your system is now INACTIVE. We may change this designation in the future if conditions change so that you no longer meet the requirements for deregulation or if a water quality, quantity or public health issue arises due to circumstances within your potable water facility.

Please call me at (253) 395-6765 if you have any questions about this letter.

Sincerely,

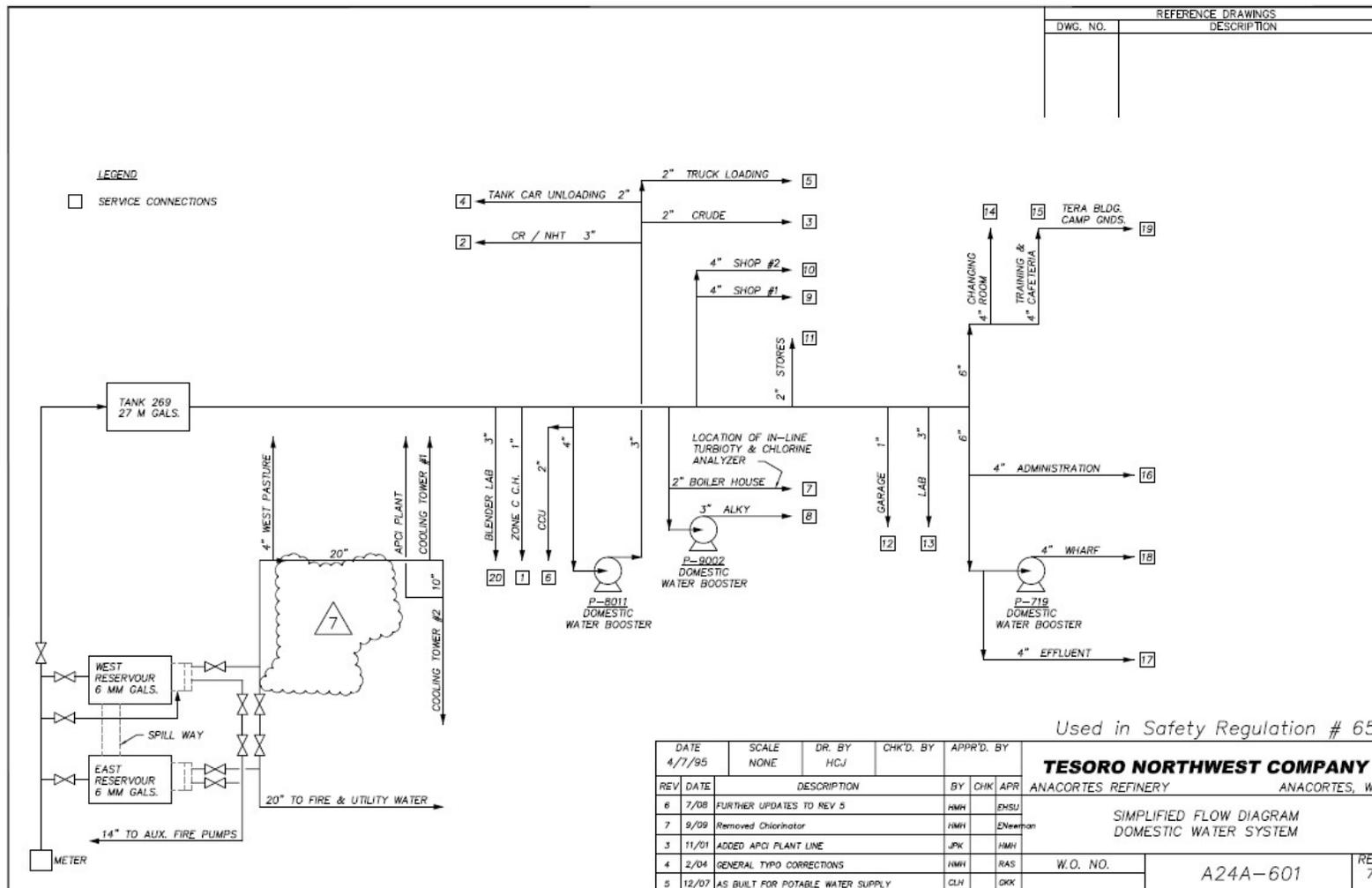


Nancy Feagin, P.E.
Regional Engineer
NW Drinking Water Operations

cc: Lorna Parent, Skagit County Health Department
Ian McClure, PE
Willie LaRue, City of Anacortes
Richard Chapin, Tesoro
Aniela Sidorska, DOH
Ingrid Salmon, DOH



11.0 ATTACHMENT 2 – REFINERY DOMESTIC WATER SIMPLIFIED DIAGRAM



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