

PHMSA Form 10 Question Set (IA Equivalent)
BREAKOUT TANK INSPECTION FORM

Name of Operator:	BP Pipelines North America	Insp. ID: 6756
OPID No. 30781	Unit ID No. Intrastate Laterals	
HQ Address:	System/Unit Name & Address:	
M.C. 9S 30 S Wacker Drive Chicago, IL 60606	600 SW, 39th Street, Suite 275 Renton, WA 98057	
Operator Official:	Gerald Maret	Address: 600 SW 39 th St Suite 275
Title:	President	City: Renton
Phone:	6307302866	State: WA
Emergency Phone/Cell:	8882718880 Renton Control Center	Zip Code: 98057
Persons Interviewed	Title	Phone No.
John Newhouse	DOT Compliance Specialist	
Brian Stone	CP Programs Team Lead	
Isaac Reinholdt	CP Specialist	
Jonathan Lazzarini	Field Specialist	
Brian Duran	Field Specialist	
Jeff Berry	Operation and Maintenance Team Lead South	
State Representative(s): Dennis Ritter		Inspection Date(s) November 15-17, 2016
Records Location:		

Unit Description:
Intrastate laterals: these include the Seattle lateral (12" line, 12.83 miles long), SeaTac lateral (12" line, 5.54 miles long), Tacoma lateral (8" line, 3.72 miles long), Olympia lateral (6" line, 14.9 miles long), and Vancouver lateral (12" line, 4.4 miles long). The Olympia lateral has been out-of-service since early 2009. The 6" pipeline was purged and filled with nitrogen gas at 13 psig pressure. A section of the Olympia lateral was removed for construction of a new road at approximately MP 12.2 88 th
Portion of Unit Inspected:
<p>Records were reviewed in Renton Station.</p> <p>Portions of all the laterals were inspected as noted in the Form R Field Notes as follows:</p> <p>Renton Station-signage, CP test point, atmospheric corrosion</p> <p>Seattle lateral- R/W, markings, signage, casing, check valve, CP test points, bridge crossing,</p> <p>Seattle DF-atmospheric corrosion, rectifier, Tank 102-coating, CP test reads, vents, nameplate, chime, site drainage</p> <p>Sea Tac lateral-R/W, markings, facility signage, CP test points, atmospheric corrosion, rectifier</p> <p>Tacoma lateral-R/W, markings, casing, facility signage, CP test points, bridge crossing, atmospheric corrosion, rectifier</p> <p>Tacoma Junction-signage, security, CP test point, rectifier</p> <p>Tacoma DF-signage, CP Test point, rectifier</p> <p>Olympia lateral: R/W, markings, casings, CP test point</p> <p>Vancouver lateral: R/W, markings, casings, facility signage, CP test points,</p> <p>Vancouver Junction- facility signage, CP test points, rectifiers</p> <p>Vancouver DF- signage, rectifier, Tank 107- coating, CP test reads, vents, nameplate, chime, site drainage, bonds</p>

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Sat+ - Exceeds requirements/exemplary performance
Sat - Meets requirements
Con - "Concern" meets requirements, but is an area of recommendation and/or area that if not addressed may lead to non-compliance
Unsat - Does not meet requirements
N/A - Not Applicable
N/C - Not Checked

Design and Construction - Construction

17. Valve Accessibility

(detail) Are valves accessible to authorized employees and protected from damage or tampering? (DC.CO.VALVEPROTECT.O) (detail)

195.258(a)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

See Field Notes Form R

24. Valve Locations

(detail) Are valves located as specified by 195.260? (DC.CO.VALVELOCATION.O) (detail)

195.260(a) (195.260(b); 195.260(c); 195.260(d); 195.260(e); 195.260(f))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

See Field Notes Form R

Design and Construction - Maintenance and Operations

1. Safety - Maintenance Construction and Testing

(detail) Does the process ensure that pipeline maintenance construction and testing activities are made in a safe manner and are made so as to prevent damage to persons and property? (DC.MO.SAFETY.P) (detail)

195.402(a) (195.422(a); 195.402(c)(14))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.422 I. Safety

A BP will make repairs in a safe manner or in such a way as to....

Design and Construction - New Tanks and Storage

1. New Aboveground Breakout Tanks

(detail) Are new aboveground breakout tanks required to be designed and constructed to the specifications required by 195.132? (DC.TSNEW.BOSPEC.P) (detail)

195.132(a) (195.132(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

195-205 Repair Alteration and Reconstruction of Above ground breakout tank that have been in service
I. A.

2. New Aboveground Breakout Tanks

(detail) Do records indicate new aboveground breakout tanks designed and constructed to the specifications required by 195.132(b)? (DC.TSNEW.BOSPEC.R) (detail)

195.132(b)

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No new tanks.

7. Breakout Tank Impoundment

(detail) Are new aboveground breakout tank impoundments, protection against entry, normal/emergency venting or pressure/vacuum reliefs required to comply with the requirements of 195.264? (DC.TSNEW.BOIMPOUNDPROTECT.P) (detail)

195.202 (195.264(a); 195.264(b); 195.264(c); 195.264(d); 195.264(e))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No new breakout tanks since last inspection. All breakout tanks have impoundment, are protected against entry and are atmospheric tanks with normal venting.

Design and Construction - Pressure Testing - Breakout Tanks

3. Pressure Testing - New Breakout Tanks

(detail) Have written test procedures been developed for testing new breakout tanks in accordance with 195.307? (DC.PTBO.BOPRESSTEST.P) (detail)

195.202 (195.307(a); 195.307(b); 195.307(c); 195.307(e); 195.310; API Specification 12F; API 620; API 650)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.307 Testing aboveground breakout tanks. No new breakout tanks have been constructed.

6. Breakout Tank Pressure Testing - Repairs, Alterations, and Reconstructions

(detail) Have written test procedures been developed for testing repaired, altered, or reconstructed breakout tanks that were returned to service after October 2, 2000? (DC.PTBO.BOPRESSTESTMODIFY.P) (detail)

195.402(c) (195.307(d); 195.310(a); 195.310(b); API 653)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.307 Testing aboveground breakout tanks.

Section III. Hydrostatic & Pneumatic Testing of API 653 breakout tanks

Design and Construction - Tanks and Storage

1. Cathodic Protection for Breakout Tanks

(detail) Is cathodic protection on breakout tanks required to be installed in accordance with API RP 651? (DC.TS.BOCP.P) (detail)

195.402(c)(3) (195.565; 195.563(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551

VI. Cathodic Protection on Breakout tanks.

3. Cathodic Protection for Breakout Tanks

(detail) Is cathodic protection on breakout tanks being installed in accordance with API RP 651? (DC.TS.BOCP.O) (detail)

195.565 (195.563(d))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No new construction observed.

7. Installing Bottom Linings in Aboveground Breakout Tanks

(detail) Are bottom linings required to be installed in aboveground breakout tanks to meet the requirements specified in 49CFR195.579(d)? (DC.TS.BOBOTTOM.P) (detail)

195.402(c) (195.579(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551

XIV Mitigating Internal Corrosion

B. Breakout tanks.

10. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service

(detail) Are breakout tanks required to be repaired, altered, or reconstructed in compliance with the requirements of 49CFR195.205? (DC.TS.BOMODIFY.P) (detail)

195.205(a) (195.205(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

195-205 Repair Alteration and Reconstruction of Above ground breakout tank that have been in service

I. A

11. Repair, Alteration and Reconstruction of Aboveground Breakout Tanks that have Been in Service

(detail) Do records indicate breakout tanks repaired, altered, or reconstructed in compliance with the requirements of 49CFR195.205(b)? (DC.TS.BOMODIFY.R) (detail)

195.266 (195.205(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tank 102 Seattle DF. Out of service inspection. 6/19/2015

Tank 107 Vancouver DF, Out of service inspection 5/10/2016

Facilities and Storage - Tanks and Storage - Inspection

2. Breakout Tank Inspection

(confirm) Do records document that breakout tanks that are not steel atmospheric or low pressure tanks or HVL steel tanks built according to API 2510 have been inspected at the proper interval and that deficiencies found during inspections have been corrected? (FS.TSAPIINSPECT.BOINSPECTION.R) (confirm)

195.404(c)(3) (195.432(a))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

None

3. Breakout Tank Inspection - In-service

(detail) Does the process describe the interval and method for performing routine in-service inspections of steel atmospheric or low pressure breakout tanks? (FS.TSAPIINSPECT.BOINSRVCINSP.P) (detail)

195.402(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.432 Inspection of Storage Vessels

Monthly, 5 year or as determined by max interval or corrosion rate.

4. Breakout Tank Inspection - In-service

(confirm) Do records document that steel atmospheric or low pressure breakout tanks have received routine in-service inspections at the required intervals and that deficiencies found during inspections have been documented? (FS.TSAPIINSPECT.BOINSRVCINSP.R) (confirm)

195.404(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tanks 102, 103 and 107—checked monthly, 5 year and 20 year (max interval) internal.

5. Breakout Tank Inspection - External

(detail) Does the process describe the interval and method for performing external inspections of breakout tanks that are steel (atmospheric or low pressure) tanks? (FS.TSAPIINSPECT.BOEXTINSP.P) (detail)

195.402(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.432 Inspection of Storage Vessels

Monthly, 5 year or as determined by max interval or corrosion rate.

Tanks 102, 103 and 107—checked monthly, 5 year and 20 year (max interval) internal.

6. Breakout Tank Inspection - External

(confirm) Do records document that steel atmospheric or low pressure breakout tanks have received external inspections at the required intervals and that deficiencies documented during inspections have been corrected within a reasonable time frame? (FS.TSAPIINSPECT.BOEXTINSP.R) (confirm)

195.404(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tanks 102, 103 and 107—checked monthly, 5 year and 20 year (max interval) internal.

7. Breakout Tank Inspection - External UT

(detail) Does the process describe the interval and method for performing external, ultrasonic thickness inspections of breakout tanks that are steel (atmospheric or low pressure) tanks? (FS.TSAPIINSPECT.BOEXTUTINSP.P) (detail)

195.402(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.432 Inspection of Storage Vessels

Monthly, 5 year, 20 year (or as determined by corrosion rate). All three regulated breakout tanks, 102, 103 and 107 are on a 20 year interval not based on corrosion rate.

8. Breakout Tank Inspection - External UT

(confirm) Do records document that steel atmospheric or low pressure breakout tanks have received ultrasonic thickness inspections at the required intervals and that deficiencies found during inspections have been documented? (FS.TSAPIINSPECT.BOEXTUTINSP.R) (confirm)

195.404(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tanks 102, 103 and 107—checked monthly, 5 year and 20 year (max interval) internal. External UT is completed same time as 5 year external. Checked recommended repairs and status.

9. Breakout Tank Inspection - Internal

(detail) Does the process describe the interval and method for performing formal internal inspections of breakout tanks that are steel (atmospheric or low pressure) tanks? (FS.TSAPIINSPECT.BOINTINSP.P) (detail)

195.402(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.432 Inspection of Storage Vessels

Monthly, 5 year or as determined by max interval or corrosion rate.

10. Breakout Tank Inspection - Internal

(confirm) Do records document that steel atmospheric or low pressure breakout tanks have received formal internal inspections at the required intervals and that deficiencies found during inspections have been documented? (FS.TSAPIINSPECT.BOINTINSP.R) (confirm)

195.404(c)(3) (195.432(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tanks 102, 103 and 107—checked monthly, 5 year and 20 year (max interval) internal. External UT is completed same time as 5 year external. Tanks 102 and 103 were due for internal inspection. Reviewed Mistras inspection reports for both tanks and checked recommended repair list to see if completed. All completed as required or rational as to why not completed. No issues found.

11. Breakout Tank Inspection - External Visual

(detail) Does the process describe the interval and method for performing visual external inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510? (FS.TSAPIINSPECT.BOEXTINSPAPI2510.P) (detail)

195.402(c)(3) (195.432(c))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.205. I.B

12. Breakout Tank Inspection - External Visual

(confirm) Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 have received visual external inspections at the required intervals and that deficiencies found have been corrected? (FS.TSAPIINSPECT.BOEXTINSPAPI2510.R) (confirm)

195.404(c)(3) (195.432(c))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No 2510 tanks

13. Breakout Tank Inspection -Internal In-service

(detail) Does the process describe the interval and method for performing internal inspections of in-service pressure steel aboveground breakout tanks built to API Standard 2510? (FS.TSAPIINSPECT.BOINTINSPAPI2510.P) (detail)

195.402(c)(3) (195.432(c))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.432 I Pressure Tanks

B.Inspection

14. Breakout Tank Inspection -Internal In-service

(confirm) Do records document that in-service pressure steel aboveground breakout tanks built to API Standard 2510 received internal inspections at the required intervals and that deficiencies found have been corrected?
(FS.TSAPIINSPECT.BOINTINSPAPI2510.R) (confirm)

195.404(c)(3) (195.432(c))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No 2510 tanks.

Facilities and Storage - Facilities General

1. Signage

(detail) Does the process require operator signs to be posted around each pump station and breakout tank area?
(FS.FG.SIGNAGE.P) (detail)

195.402(c)(3) (195.434)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.436 Security of Facilities

II. Signs

2. Signage

(confirm) Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?
(FS.FG.SIGNAGE.O) ([Also presented in ALO.FS #1](#)) (confirm)

195.434

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Vancouver, Seattle laterals

3. Facility Protection

(detail) Does the process require facilities to be protected from vandalism and unauthorized entry? (FS.FG.PROTECTION.P) (detail)

195.402(c)(3) (195.436)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.436 Security of Facilities

I.A Security.

4. Facility Protection

(confirm) Are facilities adequately protected from vandalism and unauthorized entry? (FS.FG.FACPROTECT.O) ([Also presented in ALO.FS #2](#)) (confirm)

195.436

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Renton Station, Seattle DF, Tacoma Junction, Tacoma DF, Vancouver Junction, Vancouver DF, various rectifiers and valve stations—See Form R

5. Smoking/Open Flames

(detail) Does the process prohibit smoking and open flames in each pump station and breakout tank area or where there is the possibility of the leakage of a flammable hazardous liquid or of the presence of flammable vapors? (FS.FG.IGNITION.P) (detail)

195.402(c)(3) (195.438)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.436 Security of Facilities

I.B Smoking and Open Flames

7. Smoking/Open flames

(confirm) Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities? (FS.FG.IGNITION.O) ([Also presented in ALO.FS #3](#)) (confirm)

195.438

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Renton Station, Seattle DF, Tacoma Junction, Tacoma DF, Vancouver Junction, Vancouver DF

8. Firefighting Equipment

(detail) Does the process require firefighting equipment at pump station/breakout tank areas? (FS.FG.FIREPROT.P) (detail)

195.402(c)(3) (195.430(a); 195.430(b); 195.430(c))

Sat+	Sat	Concern	Unsat	NA	NC
X					

Notes:

P195.430 Inspection of Firefighting equipment

I. Firefighting equipment

10. Pump Station Fire Protection

(confirm) Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly? (FS.FG.FIREPROT.O) ([Also presented in ALO.FS #4](#)) (confirm)

195.430(a) (195.430(b); 195.430(c); 195.262(e))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Renton Station, Seattle DF, Tacoma Junction, Tacoma DF, Vancouver Junction, Vancouver DF

Facilities and Storage - Tanks and Storage

3. Testing HVL Breakout Tank Reliefs

(detail) Does the process require inspection and testing of pressure relief valves on HVL pressure breakout tanks at the required frequency? (FS.TS.PRVTTESTHVLBO.P) (detail)

195.402(c)(3) (195.428(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.428(a) Overpressure Safety Devices

II Relief Valves

4. Testing HVL Breakout Tank Reliefs

(confirm) Do records document testing and inspection of relief valves on HVL pressure breakout tanks at the required frequency? (FS.TS.PRVTTESTHVLBO.R) (confirm)

195.404(c)(3) (195.428(b))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

No HVL tanks or pressure relief devices

6. Breakout Tank Overfill Protection

(detail) Does the process require adequate testing and inspection of overfill devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.] (FS.TS.OVERFILLBO.P) (detail)

195.402(c)(3) (195.428(a); 195.428(c); 195.428(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.428(d) Inspection of overpressure safety devices and Overfill protection systems for breakout tanks.

7. Breakout Tank Overfill Protection

(confirm) Do records document the inspection and testing of overfill protection devices on aboveground breakout tanks at the required interval? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.] (FS.TS.OVERFILLBO.R) (confirm)

195.404(c)(3) (195.428(a); 195.428(c); 195.428(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Checked Tanks 102,103,107 for years 2014 and 2015 and 2016.

8. Breakout Tank Overfill Protection

(confirm) Do selected overfill protection systems on aboveground breakout tanks that were constructed or significantly altered after October 2, 2000 function properly and are they in good mechanical condition? [Note: This question applies to both non-HVL and HVL pressure breakout tanks.] (FS.TS.OVERFILLBO.O) ([Also presented in ALO.FS #8](#)) (confirm)

195.428(c)

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

None altered or reconstructed

10. Protection Against Ignitions During O&M of Breakout Tanks

(detail) Does the process describe how the operator protects against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks? (FS.TS.IGNITIONBO.P) (detail)

195.402(c)(3) (195.405(a))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.405(a) Protection against ignitions

I Protections against ignitions.

11. Protection Against Ignitions During O&M of Breakout Tanks

(detail) Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks? (FS.TS.IGNITIONBO.R) (detail)

195.404(c) (195.405(a))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

1. Verify that protection is provided against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks.
2. If an operator believes it is not necessary to follow all or certain provisions of API Recommended Practice 2003 for the safety of a particular breakout tank then the operator must document why in the procedures.

Tank 103 monthly inspection 8/2/2016
Question 120-Tank grounding cables in satisfactory condition? OK
This is standard for all monthly tank inspections.

Tank 102 monthly inspection 6/20/16 OK

Tank 107 monthly inspection 3/25/2016 OK

13. Floating Roof Access/Egress Hazards

(detail) Does the process associated with access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance or repair activities of in-service tanks indicate that the operator has reviewed and considered the potentially hazardous conditions, safety practices and procedures in API Publication 2026? (FS.TS.FLOATINGROOF.P) (detail)

195.402(c)(3) (195.405(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.405(b) Safe Access/Ingress Involving Floating roofs

Section II Procedures and Specifications

14. Floating Roof Access/Egress Hazards

(detail) Do records indicate access/egress onto floating roofs of in-service aboveground breakout tanks to perform inspection, service, maintenance, or repair activities of in-service tanks is performed consistent with API Publication 2026?
(FS.TS.FLOATINGROOF.R) (detail)

195.404(c) (195.405(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Tank 103 monthly inspection 8/2/2016
Question 180-Are confined space entry signs attached to the roof hatch and tank manways? OK
This is standard for all monthly tank inspections.

Tank 102 monthly inspection 6/20/16 OK

Tank 107 monthly inspection 3/25/2016 OK

16. Breakout Tank Impoundments

(detail) If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment?
(FS.TS.IMPOUNDBO.R) (detail)

195.404(c) (195.264(b))

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

Tanks were in service prior to Oct 2, 2002.

17. Breakout Tank Impoundments

(detail) If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?
(FS.TS.IMPOUNDBO.O) (detail)

195.264(b)

Sat+	Sat	Concern	Unsat	NA	NC
				X	

Notes:

Tanks were in service prior to Oct 2, 2002. However all tanks meet the impoundment requirement of 110% of single largest tank in impoundment and 25 year-24 hr rainfall event.

Tanks impoundment volumes are:

- Tank 102 7150 bbls
- Tank 103 2847 bbls
- Tank 107 6689 bbls

18. Breakout Tank Venting

(detail) Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate? (FS.TS.VENTBO.R) (detail)

195.404(c) (195.264(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Reviewed Mistras 2/19/15 (5 year) and 6/19/15 (out of service) inspections of Tank 102. Replaced unnecessary pressure roof vent with goose neck.

All tanks are atmospheric and installed prior to Oct 2, 2000.

21. Breakout Tank Pressure Testing

(detail) Have aboveground breakout tanks been pressure tested to their corresponding API or ASME Standard or Specification and do pressure test records contain the required information? (FS.TS.PRESSTESTBO.R) (detail)

195.310(a) (195.310(b); 195.307)

Sat+	Sat	Concern	Unsat	NA	NC
					X

Notes:

All tanks are atmospheric and installed prior to Oct 2, 2000 (1967) . They have not been reconstructed or had a major repair requiring new hydrotest. OPL does not have the original hydro test records therefore they were not checked.

Maintenance and Operations - Liquid Pipeline Operations

4. Normal Maintenance and Operations - History

(detail) Does the process include procedures for making construction records, maps, and operating history available as necessary for safe operation and maintenance? (MO.LO.OMHISTORY.P) (detail)

195.402(a) (195.402(c)(1); 195.404(a); 195.404(a)(1); 195.404(a)(2); 195.404(a)(3); 195.404(a)(4); 195.404(c)(1); 195.404(c)(2); 195.404(c)(3))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.404 Maps and Records

Section A&B

5. Normal Maintenance and Operations - History

(detail) Do records indicate current maps and records of its pipeline systems are maintained and made available as necessary? (MO.LO.OMHISTORY.R) (detail)

195.404(a) (195.404(b); 195.404(c); 195.9; 195.402(c)(1))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Looked at line drawings and XMAP, P&ID dwgs

Time-Dependent Threats - External Corrosion - Atmospheric

1. Atmospheric Corrosion Coating

(detail) Does the process give adequate instruction for the protection of pipeline against atmospheric corrosion? (TD.ATM.ATMCORRODECOAT.P) (detail)

195.402(c)(3) (195.581(a); 195.581(b); 195.581(c))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551 Corrosion Control

Section XV Atmos Corrosion and Coating Materials

3. Atmospheric Corrosion Monitoring

(detail) Does the process give adequate instruction for the inspection of aboveground pipeline segments exposed to the atmosphere? (TD.ATM.ATMCORRODEINSP.P) (detail)

195.402(c)(3) (195.583(a); 195.583(b); 195.583(c))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551 Corrosion Control

Section XVI Monitoring Atmospheric Corrosion

4. Atmospheric Corrosion Monitoring

(confirm) Do records document inspection of aboveground pipe exposed to atmospheric corrosion? (TD.ATM.ATMCORRODEINSP.R) (confirm)

195.589(c) (195.583(a); 195.583(b); 195.583(c))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Looked at Tank 102, 103 and Tank 107, Seattle DF, Tacoma Junction, Tacoma DF, Vancouver Junction , Vancouver DF

5. Atmospheric Corrosion Monitoring

(confirm) *Is aboveground pipe that is exposed to atmospheric corrosion protected?* (TD.ATM.ATMCORRODEINSP.O) ([Also presented in ALO.TD #7](#)) (confirm)

195.583(c) (195.581(a))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Looked at Tank 102 and Tank 107, Seattle DF, Tacoma Junction, Tacoma DF, Vancouver Junction , Vancouver DF

Time-Dependent Threats - External Corrosion - Breakout Tank Cathodic Protection

1. Cathodic Protection for Breakout Tanks

(detail) *Does the process describe when cathodic protection must be installed on breakout tanks?* (TD.CPBO.BO651.P) (detail)

195.402(c)(3) (195.565, 195.563(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551 Corrosion Control

Section VI Cathodic Protection on Breakout tanks

2. Cathodic Protection for Breakout Tanks

(detail) *Does the process adequately detail when and how cathodic protection systems will be inspected on breakout tanks?* (TD.CPBO.BO.P) (detail)

195.402(c)(3) (195.573(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P195.551 Corrosion Control

Section VII Monitoring of Cathodic Protection and Corrosion on Breakout tanks

3. Cathodic Protection for Breakout Tanks

(detail) *Do records document adequate cathodic protection system inspections on breakout tanks?* (TD.CPBO.BO.R) (detail)

195.589(c) (195.573(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Looked at all tank records

4. Cathodic Protection for Breakout Tanks

(confirm) Are cathodic protection monitoring tests performed correctly on breakout tank bottoms? (TD.CPBO.BO.O) ([Also presented in ALO.TD #4](#)) (confirm)

195.573(d)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

Looked at all tank records

Time-Dependent Threats - External Corrosion - Cathodic Protection

8. Cathodic Protection System Maps and Records

(confirm) Do maps and or records document cathodic protection system appurtenances that have been installed on pipelines that have been constructed, relocated, replaced, or otherwise changed or been converted to hazardous liquid service? (TD.CP.MAPRECORD.R) (confirm)

195.589(a) (195.589(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

P&ID dwgs show tanks

Time-Dependent Threats - External Corrosion - Cathodic Protection Monitoring

7. Cathodic Protection Monitoring Criteria

(detail) Does the process require that CP monitoring criteria be used that is acceptable? (TD.CP.MONITOR.MONITORCRITERIA.P) (detail)

195.402(c)(3) (195.571)

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

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Section X Criteria used to determine the adequacy of cathodic protection

17. Interference Currents

(detail) Does the process give sufficient guidance and detail for identifying and testing areas of potential stray current, and minimizing the detrimental effects of stray currents? (TD.CPMONITOR.INTFRCURRENT.P) (detail)

195.402(c)(3) (195.577(a); 195.577(b))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

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Section XIII Interference currents

Time-Dependent Threats - Internal Corrosion - Preventive Measures

16. Internal Corrosion Lining of Breakout Tanks

(confirm) Do records document the adequate installation of breakout tank bottom linings? (TD.ICP.BOLINING.R) (confirm)

195.589(c) (195.579(d))

Sat+	Sat	Concern	Unsat	NA	NC
	X				

Notes:

All three tanks have epoxy coating

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