

Inspection Output (IOR)

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Inspection Information

Inspection Name	8035 Petrogas RR FV	Operator(s)	PETROGAS WEST, LLC (39663)	Plan Submitted	10/28/2020
Status	STARTED	Lead	Anthony Dorrough	Plan Approval	--
Start Year	2020	Supervisor	Joe Subits	All Activity Start	08/19/2020
System Type	HL	Director	Sean Mayo	All Activity End	08/19/2020
Protocol Set ID	HL.2020.01			Inspection Submitted	--
				Inspection Approval	--

Inspection Summary

Scope and Summary:

This Standard Comprehensive Hazardous Liquid (HL) inspection was completed online via a Microsoft Teams Meeting and covered process and records review questions, as well as related questions that included WAC requirements. The last Standard HL inspection of this unit was performed 12/12-12/13/2018. A verbal exit interview was conducted for this inspection on 8/19/2020.

Dates and Activities:

No other dates or activities needed.

Summary of Significant Findings:

*No apparent violations of federal or state code
No areas of concern identified*

Primary operator contacts/participants in the inspection:

Gary McSpadden/ Operations Manager (360) 333-2531

Gatlin McConnell/ Safety Coordinator (360) 815-0864

Recommended follow up actions for next inspection:

No recommended follow up actions needed.

Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Total Inspected	Required % Complete
1.	Ferndale Storage Terminal	Petrogas West, LLC	unit	--	Pump Stations Offshore Crosses Nav. CO2 Biofuels Reg Rural Gather Rural Low Stress Abandoned GOM	134	134	134	100.0%

1. Percent completion excludes unanswered questions planned as "always observe".

Plans

# Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent Notes
1. Ferndale Storage Terminal	Small System Key Risks, BO Tank Inspection, Core	AR, CR, DC, TDC, EP, FS, IM, MO, PD, RPT, SRN, TD, TQ, GENERIC	R, P	Detail

Plan Implementations

# Activity Name	SMAR T Act#	Start Date	End Date	Focus Directives	Involved Groups/Subgroups	Assets	Qst Type(s)	Planned	Required	Total Inspected	Required % Complete
1. 8035 Petrogas RRFV	--	08/19/20	08/19/20	Small System Key Risks, BO Tank Inspection, Core	AR, CR, DC, TDC, EP, FS, IM, MO, PD, RPT, SRN, TD, TQ, GENERIC	Ferndale Storage Terminal	all types	134	134	134	100.0%

1. Since questions may be implemented in multiple activities, but answered only once, questions may be represented more than once in this table.
2. Percent completion excludes unanswered questions planned as "always observe".

Forms

No.	Entity	Form Name	Status	Date Completed	Activity Name	Asset
1.	Attendance List	New Attendance Form - COPY	COMPLETED	10/28/2020	8035 Petrogas RRFV	--

Results (all values, 167 results)

191 (instead of 167) results are listed due to re-presentation of questions in more than one sub-group.

AR.IA: Integrity Assessments

1. Question Result, ID, NA, AR.IA.ASSESSCHEDULE.R, 195.452(l)(1)(ii) (195.452(b)(5), 195.452(c), 195.452(d), References 195.452(f)(5), 195.452(j)(3), 195.452(j)(5), 195.591)

Question Text *Do the records indicate that assessments are implemented as specified in the assessment plan?*

Assets Covered Ferndale Storage Terminal

Result Notes No such requirement existed in the scope of inspection review. 195.452 – Pipeline integrity management in high consequence areas. The facility is not subject to this rule

AR.II: In-Line Inspection (Smart Pigs)

2. Question Result, ID, NA, AR.II.IIVALIDATE.R, 195.452(l)(1)(ii) (195.452(j)(5)(i), 195.452(f)(4), 195.452(h), 195.452(c)(1), References 195.591)

Question Text *Do the records for validating ILI assessment results indicate that the process was implemented?*

Assets Covered Ferndale Storage Terminal

Result Notes No such requirement existed in the scope of inspection review. 195.452 – Pipeline integrity management in high consequence areas. The facility is not subject to this rule

AR.RCHCA: Repair Criteria (HCA)

3. Question Result, ID, NA, AR.RCHCA.IMSCHEDULE.R, 195.452(l)(1)(ii) (195.452(h)(3), 195.452(h)(4))

Question Text *Do the records indicate that the operator has met the schedule for remediating a condition in accordance with 195.452(h)(4)?*

Assets Covered Ferndale Storage Terminal

Result Notes No such requirement existed in the scope of inspection review. 195.452 – Pipeline integrity management in high consequence areas. The facility is not subject to this rule

AR.RMP: Repair Methods and Practices

4. Question Result, ID, NA, AR.RMP.METHOD.R, 195.404(c)(1) (195.422(a), 195.422(b), 195.452(h)(1), 195.401(b)(1), References 195.401(b)(2))

Question Text *From the review of the results of integrity assessment and remediation projects, were all repairs performed in accordance with procedures and applicable sections of 49 CFR Part 195?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

See 4.17 Records and Maps

MIP-403 Pipe Repair
2.3 Corrosion Control Program
3.9.2.3 Preventive and Mitigative Actions

5. Question Result, ID, NA, AR.RMP.REPAIRQUAL.R, 195.505(b) (195.507(a), 195.505(c), 195.452(h)(1), 195.452(b)(5)) References

Question Text *From the records review of the results of integrity assessment and remediation projects, were personnel performing repairs, other than welding, qualified for the task they performed?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection. No records of work conducted

See OQ Manual- 6.2 Contractors

6. Question Result, ID, NA, AR.RMP.REPLACESTD.R, 195.404(a)(1) (195.422(b),) References

Question Text *Were all replaced line pipe and/or components designed and constructed as required by Part 195?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

*No Repairs

See 4.17 Records and Maps

MIP-403 Pipe Repair

CR.CRMRR: Roles and Responsibilities

7. Question Result, ID, Sat, CR.CRMRR.PRESSLIMITS.O, 195.446(b)(2) References

Question Text *Are controllers aware of the current MOPs of all pipeline segments for which they are responsible, and have they been assigned the responsibility to maintain those pipelines at or below the MOP?*

Assets Covered Ferndale Storage Terminal

CR.SCADA: Supervisory Control and Data Acquisition

8. Question Result, ID, NA, CR.SCADA.POINTVERIFY.R, 195.446(c)(2) References

Question Text *Have required point-to-point verifications been performed?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

*No Such facilities

Not Applicable: See App J Control Room Management Non-Applicability Letter

CR.CRMAM: Alarm Management

9. Question Result, ID, References NA, CR.CRMAM.ALARM.P, 195.446(e)

Question Text *Is the alarm management plan a formal process that specifically identifies critical topical areas included in the program?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

*No Such facilities

Not Applicable: See App J Control Room Management Non-Applicability Letter

10. Question Result, ID, References NA, CR.CRMAM.ALARMSETPOINTS.P, 195.446(e)(3)

Question Text *Is there a formal process to determine the correct alarm setpoint values and alarm descriptions?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

*No Such facilities

Not Applicable: See App J Control Room Management Non-Applicability Letter

DC.CO: Construction

11. Question Result, ID, References Sat, DC.CO.RECORDS.P, 195.202 (195.266(a), 195.266(b), 195.266(c), 195.266(d), 195.266(e), 195.266(f))

Question Text *Does the process require applicable construction records to be maintained for the life of each pipeline?*

Assets Covered Ferndale Storage Terminal

DC.WELDINSP: Construction Weld Inspection

12. Question Result, ID, References Sat, DC.WELDINSP.GIRTHWELDNDT.P, 195.202 (195.234(d), 195.234(e), 195.234(f), 195.234(g), 195.266) (also presented in: TDC.WELDINSP)

Question Text *Does the process require certain girth welds to be nondestructively tested in accordance with 195.234(d), (e), (f), and (g)?*

Assets Covered Ferndale Storage Terminal

Result Notes See 2.1 Facility Design Basis
MIP-407 Welding

4.17 Records and Maps

DC.WELDERQUAL: Construction Welder Qualification

13. Question Result, ID, References Sat, DC.WELDERQUAL.WELDERQUAL.P, 195.222(a) (195.222(b)) (also presented in: TDC.WELDERQUAL)

Question Text *Is each welder required to be qualified in accordance with section 6 of API 1104 or section IX of the ASME Boiler and Pressure Vessel Code?*

Assets Covered Ferndale Storage Terminal

Result Notes See 2.1 Facility Design Basis
MIP-407 Welding
MIP-403 Pipe Repair

4.17 Records and Maps

DC.WELDPROCEDURE: Construction Welding Procedures

14. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELD.P, 195.214(a)** (also presented in: TDC.WELDPROCEDURE)
Question Text *Does the process require welding to be performed by qualified welders using qualified welding procedures?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See MIP-407 Welding; Section 5.5 Selecting Proper Procedure
MIP-403 Pipe Repair**
15. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELDPROCEDURE.P, 195.214(b)** (also presented in: TDC.WELDPROCEDURE)
Question Text *Are welding procedures and qualifying tests required to be recorded in detail?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **MIP-407 Welding; 8.0- Reporting Requirements; 9.0 Document Retention
MIP-403 Pipe Repair**

DC.MO: Maintenance and Operations

16. Question Result, ID, References **Sat, DC.MO.SAFETY.P, 195.402(a)** (195.422(a), 195.402(c)(14))
Question Text *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?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See MIP-403 Pipe Repair; 3.0 Pre-req on Qualified Persons, Personnel and Training Requires; 5.0 Instructions**

Pipeline System Facility Manual 4.11 Protection of personnel in excavated trenches

DC.PT: Pressure Testing

17. Question Result, ID, References **Sat, DC.PT.PRESSTEST.P, 195.402(c)** (195.302(a), 195.304, 195.305, 195.306, 195.310)
Question Text *Does the process have adequate test procedures?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See MIP-301 Pipe Hydrostatic Testing (4.0)**

**MIP-803 Valve Repair (5.3.1) 4.14 Hydrostatic Testing
MIP-604 Hydrostatic Testing of Atmospheric Storage Tanks
PSFM-App D Records Retention**
18. Question Result, ID, References **NA, DC.PT.PRESSTEST.O, 195.302(a)** (195.304, 195.305(a), 195.305(b), 195.306(a), 195.306(b), 195.306(c), 195.306(d), 195.307(a), 195.307(b), 195.307(c), 195.307(d), 195.307(e), 195.308)
Question Text *Is pressure testing being adequately conducted?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**
19. Question Result, ID, References **Sat, DC.PT.PRESSTESTTIEIN.P, 195.402(c)** (195.308)
Question Text *Does the process require testing of pipe associated with tie-ins, either with the section to be tied in or separately?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See PSFM:
1.3 Review of manuals
2.1.5 Pipe data
2.3.3 Corrosion control maps
3.0 Normal Operating Procedures
4.0 Inspection. Maintenance and testing procedures
4.17 Records and maps
App F drawing list
MIP-403 Pipe repair**

TDC.TK650: New Breakout Tanks (API 650 Atmospheric)

20. Question Result, ID, References **Sat, TDC.TK650.BOSPEC.P, 195.132(b)(3) (API Std 650)**
Question Text *Does the process for new aboveground atmospheric breakout tanks require tank design and construction to meet the requirements of 195.132(b)(3)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See 2.1 Facility design basis**
21. Question Result, ID, References **Sat, TDC.TK650.BOSPEC.R, 195.132(b)(3) (API Std 650)**
Question Text *Do the design records and drawings indicate new aboveground atmospheric breakout tanks are designed and constructed to the specifications required by 195.132(b)(3)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See 2.1 Facility design basis**
22. Question Result, ID, References **Sat, TDC.TK650.REPAIRSPEC.P, 195.205(b)(1) (API Std 650, API Std 653)**
Question Text *Are breakout tanks required to be repaired, altered, or reconstructed in compliance with the requirements of 195.205(b)(1)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **MIP-601 Aboveground Storage Tank Inspection**

MIP-603 Aboveground Storage Tank Repair
23. Question Result, ID, References **NA, TDC.TK650.REPAIRSPEC.R, 195.205(b)(1) (API Std 650, API Std 653)**
Question Text *Do records indicate breakout tanks were repaired, altered, or reconstructed in compliance with the requirements of 195.205(b)(1)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

No repairs or alterations

MIP-601 Aboveground Storage Tank Inspection

MIP-603 Aboveground Storage Tank Repair
24. Question Result, ID, References **Sat, TDC.TK650.LEAKTESTING.P, 195.307(c) (195.310(a), API 650, 195.310(b))**
Question Text *Does the process for new aboveground breakout tanks require leak testing of tanks in accordance with 195.307?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See MIP-604 Hydrostatic Testing of Atmospheric Storage Tanks**
MIP-301 Pipe hydrostatic testing
App D records retention
25. Question Result, ID, References **Sat, TDC.TK650.REPAIRLEAKTEST.P, 195.307(d) (195.310(a), 195.310(b), API 653)**
Question Text *Does the process for aboveground atmospheric breakout tanks require leak testing of tanks after repairs, alterations, and reconstruction in accordance with 195.307(d)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See MIP-604 Hydrostatic Testing of Atmospheric Storage Tanks**
MIP-301 Pipe hydrostatic testing
App D records retention

26. Question Result, ID, References **Sat, TDC.TK650.BOCP.P, 195.565 (195.563(d), API Std 651)**
 Question Text *Does the process for new aboveground breakout tanks specify cathodic protection as required by 195.565?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See MIP-501 Cathodic Protection,**
MIP-504 Tank Coating Inspection and Repairs
2.3 Corrosion Control Program
The breakout tanks are exempt from cathodic protection under 563(c)
MIP-502 Internal Corrosion Control
MIP-302 Exposed Pipe Inspection
27. Question Result, ID, References **NA, TDC.TK650.BOCP.O, 195.565 (195.563(d), API Std 651)**
 Question Text *Do field observations confirm new breakout tanks have cathodic protection installed in accordance with 195.565?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
28. Question Result, ID, References **Sat, TDC.TK650.BOIMPOND.P, 195.264(a) (195.264(b), 195.264(c), 195.264(d), 195.264(e))**
 Question Text *Does the process for new aboveground breakout tanks require impoundment(s) to meet the requirements of 195.264 in the event of tank spillage or failure?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See 2.1 Facility design basis**

TDC.WELDPROCEDURE: New Tank Piping - Construction Welding Procedures (Re-Presented)

29. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELDPROCEDURE.P, 195.214(b)** (also presented in: DC.WELDPROCEDURE)
 Question Text *Are welding procedures and qualifying tests required to be recorded in detail?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **MIP-407 Welding; 8.0- Reporting Requirements; 9.0 Document Retention**
MIP-403 Pipe Repair
30. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELD.P, 195.214(a)** (also presented in: DC.WELDPROCEDURE)
 Question Text *Does the process require welding to be performed by qualified welders using qualified welding procedures?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See MIP-407 Welding; Section 5.5 Selecting Proper Procedure**
MIP-403 Pipe Repair

TDC.WELDERQUAL: New Tank Piping - Construction Welder Qualification (Re-Presented)

31. Question Result, ID, References **Sat, DC.WELDERQUAL.WELDERQUAL.P, 195.222(a) (195.222(b))** (also presented in: DC.WELDERQUAL)
 Question Text *Is each welder required to be qualified in accordance with section 6 of API 1104 or section IX of the ASME Boiler and Pressure Vessel Code?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See 2.1 Facility Design Basis**
MIP-407 Welding
MIP-403 Pipe Repair

4.17 Records and Maps

TDC.WELDINS: New Tank Piping - Construction Weld Inspection (Re-Presented)

32. Question Result, ID, **Sat**, DC.WELDINS.GIRTHWELDNDT.P, 195.202 (195.234(d), 195.234(e), 195.234(f), 195.234(g),
References **195.266**) (also presented in: DC.WELDINS)

Question Text *Does the process require certain girth welds to be nondestructively tested in accordance with 195.234(d), (e), (f), and (g)?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See 2.1 Facility Design Basis
MIP-407 Welding**

4.17 Records and Maps

EP.EPO: Emergency Planning OPA

33. Question Result, ID, **NA**, EP.EPO.OPASUBMITTAL.R, 194.101(a) (194.101(b), 194.119(e)) (also presented in: RPT.NR)
References

Question Text *If the operator is required to have a Facility Response Plan, does the current plan submitted and approved by PHMSA cover all the required pipeline assets?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

No such facilities

NA for facility; 49 CFR 194- Response Plans for onshore OIL Pipelines

34. Question Result, ID, **Sat**, EP.EPO.OPALLOCATION.O, 194.111(a) (194.111(b))
References

Question Text *Is the response plan maintained at required locations?*

Assets Covered **Ferndale Storage Terminal**

35. Question Result, ID, **NA**, EP.EPO.OPADRILL.R, 194.107(c)(1)(ix) (National Preparedness for Response Exercise Program
References (PREP) Guidelines, Section 5 (August 2002))

Question Text *Do records indicate the drill program follows the National Preparedness for Response Exercise Program (PREP) guidelines?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

No such facilities

NA for facility; 49 CFR 194- Response Plans for onshore OIL Pipelines

EP.ERL: Emergency Response Liquids

36. Question Result, ID, **Sat**, EP.ERL.REVIEW.P, 195.402(a)
References

Question Text *Does the O&M plan include a requirement to review the emergency manual at intervals not exceeding 15 months, but at least once each calendar year, and make appropriate changes as necessary to ensure it is effective?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See 1.3 Review of manuals**

37. Question Result, ID, **Sat**, EP.ERL.REVIEW.R, 195.402(a)
References

Question Text *Has the operator conducted annual reviews of the emergency plans and procedures as required and made appropriate changes?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See 1.3 Review of manuals**

38. Question Result, ID, References **Sat, EP.ERL.LOCATION.O, 195.402(a)**
 Question Text *Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?*
 Assets Covered **Ferndale Storage Terminal**
39. Question Result, ID, References **Sat, EP.ERL.LIAISON.P, 195.402(a) (195.402(c)(12), 195.440(c), API RP 1162 Section 4.4)**
 Question Text *Does the O&M plan include processes for establishing and maintaining liaison with appropriate fire, police and other public officials and utility owners?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See 1.3 Review of manuals**
- 6.4 Public liaison requirements**
4.3.2 Public awareness
40. Question Result, ID, References **Sat, EP.ERL.LIAISON.R, 195.402(a) (195.402(c)(12), 195.440(c), API RP 1162 Section 4.4) (also presented in: PD.PA)**
 Question Text *Do records indicate that liaison has been established and maintained with appropriate fire, police, public officials, and utility owners?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **1.3 Review of manuals**
- 6.4 Public liaison requirements**
4.3.2 Public awareness
41. Question Result, ID, References **Sat, EP.ERL.NOTICES.P, 195.402(a) (195.402(e)(1))**
 Question Text *Does the emergency plan include processes for receiving, identifying, and classifying notices of events which need immediate response and providing notice to operator personnel or to fire, police or other appropriate officials, as appropriate, for corrective action?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See:**
- 1.3 Review of manuals**
- 6.0 Emergency Response Procedures**
- 6.1 Emergency Response Plan**
- 6.2 Receiving, Identifying, and Classifying Notices of Emergency Events**
- 6.7 Personnel, Equipment, Tools, and Materials Availability**
- Emergency Response Plan**
42. Question Result, ID, References **Sat, EP.ERL.NOTICES.R, 195.402(a) (195.402(e)(1))**
 Question Text *Do records indicate receiving, identifying, classifying and communicating notices of events requiring immediate response in accordance with procedures?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See:**
- 1.3 Review of manuals**
- 6.0 Emergency Response Procedures**
- 6.1 Emergency Response Plan**
- 6.2 Receiving, Identifying, and Classifying Notices of Emergency Events**

6.7 Personnel, Equipment, Tools, and Materials Availability

Emergency Response Plan

43. Question Result, ID, References Sat, EP.ERL.RESPONSE.P, 195.402(a) (195.402(c)(4), 195.402(c)(6), 195.402(e)(2), 195.402(e)(10))

Question Text *Does the emergency plan include processes for making a prompt and effective response to a notice of each type of emergency, fire, explosion, accidental release of a hazardous liquid, operational failure, or natural disaster affecting the pipeline?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

1.3 Review of manuals

6.0 Emergency Response Procedures

6.1 Emergency Response Plan

6.2 Receiving, Identifying, and Classifying Notices of Emergency Events

6.7 Personnel, Equipment, Tools, and Materials Availability

Emergency Response Plan

44. Question Result, ID, References Sat, EP.ERL.READINESS.P, 195.402(a) (195.402(e)(3))

Question Text *Does the emergency plan include processes to ensure the availability of personnel, equipment, instruments, tools, and materials as needed at the scene of an emergency?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

1.3 Review of manuals

6.0 Emergency Response Procedures

6.1 Emergency Response Plan

6.2 Receiving, Identifying, and Classifying Notices of Emergency Events

6.7 Personnel, Equipment, Tools, and Materials Availability

Emergency Response Plan

45. Question Result, ID, References Sat, EP.ERL.RELEASEREDUCE.P, 195.402(a) (195.402(e)(4))

Question Text *Does the emergency plan include processes for taking necessary action; such as an emergency shutdown or pressure reduction, to minimize the volume released from any section of a pipeline system in the event of a failure?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

1.3 Review of manuals

6.5 Emergency shutdown

46. Question Result, ID, References Sat, EP.ERL.HAZREDUCE.P, 195.402(a) (195.402(c)(11), 195.402(e)(5))

Question Text *Does the emergency plan include processes for controlling the release of liquid at an accident scene to minimize the hazards, including possible ignition in the cases of flammable HVLs?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

- 1.3 Review of manuals
- 4.12 Prevention of Accidental Ignition
- 2.6 Fire control System
- 6.3 Reduce Hazard Potential
- 6.4 Public Official Liaison
- Emergency Response Plan

47. Question Result, ID, References Sat, EP.ERL.PUBLICHAZ.P, 195.402(a) (195.402(e)(6))

Question Text *Does the emergency plan include procedures for minimizing public exposure to injury and probability of accidental ignition by assisting with evacuation, assisting with halting traffic on roads and railroads, or taking other appropriate action?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

- 1.3 Review of manuals
- 6.3 Reduce Hazard Potential
- 6.4 Public Official Liaison
- Emergency Response Plan

48. Question Result, ID, References Sat, EP.ERL.AUTHORITIES.P, 195.402(a) (195.402(e)(7))

Question Text *Does the emergency plan include processes for notifying fire, police, and other appropriate public officials of hazardous liquid emergencies and coordinating with them preplanned and actual responses during an emergency, including additional precautions necessary for an emergency involving HVLs?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

- 1.3 Review of manuals
- 6.3 Reduce Hazard Potential
- 6.4 Public Official Liaison
- Emergency Response Plan

49. Question Result, ID, References Sat, EP.ERL.HVLMEASURE.P, 195.402(a) (195.402(e)(8))

Question Text *Does the emergency plan include processes for determining the extent and coverage of vapor cloud and hazardous areas of HVLs by using appropriate instruments?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

- 1.3 Review of manuals
- 6.3 Reduce Hazard Potential
- 6.4 Public Official Liaison
- Emergency Response Plan

50. Question Result, ID, References **NA, EP.ERL.HVLMEASURE.R, 195.402(a) (195.402(e)(8))**
Question Text *In the case of an HVL release, do records indicate the operator utilized appropriate instruments to address vapor clouds in accordance with its procedures?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**

*****No such events*****

1.3 Review of manuals

2.6 Fire Control System

6.8 Gas Releases

Emergency Response Plan

EP.ETR: Emergency Training of Personnel

51. Question Result, ID, References **Sat, EP.ETR.TRAINING.P, 195.403(a)**
Question Text *Has a continuing training program to instruct emergency response personnel been established and conducted?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See 8.0 Operator Training and Testing**

52. Question Result, ID, References **Sat, EP.ETR.TRAINING.R, 195.403(a)**
Question Text *Do records indicate the operator provided training to its emergency response personnel as required?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See 8.0 Operator Training and Testing**

FS.TSAPIINSPECT: Tanks and Storage - Inspection

53. Question Result, ID, References **Sat, FS.TSAPIINSPECT.BOINSPECTION.R, 195.404(c)(3) (195.432(a))**
Question Text *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?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**

4.17 Records and maps

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

54. Question Result, ID, References **Sat, FS.TSAPIINSPECT.BOINSRVCSINSP.P, 195.402(c)(3) (195.432(b))**
Question Text *Does the process describe the interval and method for performing routine in-service inspections of steel atmospheric or low pressure breakout tanks?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

55. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOINSRVCINSP.R, 195.404(c)(3) (195.432(b))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and maps

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

56. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTINSP.P, 195.402(c)(3) (195.432(b))

Question Text *Does the process describe the interval and method for performing external inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-601 Aboveground Storage Tank

Inspection

4.16 Tank Inspections

57. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTINSP.R, 195.404(c)(3) (195.432(b))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and Maps

MIP-601 Aboveground Storage Tank

Inspection

4.16 Tank Inspections

58. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTUTINSP.P, 195.402(c)(3) (195.432(b))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-601 Aboveground Storage Tank

Inspection

4.16 Tank Inspections

59. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTUTINSP.R, 195.404(c)(3) (195.432(b))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes ****No Deficiencies****

4.17 Records and Maps

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

60. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOINTINSP.P, 195.402(c)(3) (195.432(b))

Question Text *Does the process describe the interval and method for performing formal internal inspections of breakout tanks that are steel (atmospheric or low pressure) tanks?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

[3.0 Normal Operating Procedures](#)

[4.0 Inspection, Maintenance, and Testing Procedures](#)

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[MIP-601 Aboveground Storage Tank Inspection](#)

[4.16 Tank Inspections](#)

61. Question Result, ID, References [Sat, FS.TSAPIINSPECT.BOINTINSP.R, 195.404\(c\)\(3\) \(195.432\(b\)\)](#)

Question Text *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?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[4.17 Records and Maps](#)

[MIP-601 Aboveground Storage Tank Inspection](#)

[4.16 Tank Inspections](#)

62. Question Result, ID, References [Sat, FS.TSAPIINSPECT.BOEXTINSPAPI2510.P, 195.402\(c\)\(3\) \(195.432\(c\)\)](#)

Question Text *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?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

[3.0 Normal Operating Procedures](#)

[4.0 Inspection, Maintenance, and Testing Procedures](#)

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MIP-403 Pipe Repair

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MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

63. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOEXTINSPAPI2510.R, 195.404(c)(3) (195.432(c))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and Maps

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

64. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOINTINSPAPI2510.P, 195.402(c)(3) (195.432(c))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

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MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

65. Question Result, ID, References Sat, FS.TSAPIINSPECT.BOINTINSPAPI2510.R, 195.404(c)(3) (195.432(c))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and Maps

MIP-601 Aboveground Storage Tank Inspection

4.16 Tank Inspections

66. Question Result, ID, [Sat, FS.TS.BOINSPECTION.O, 195.432\(a\) \(195.432\(b\), 195.432\(c\), 195.401\(b\)\)](#) (also presented in: References [FS.TS](#))
Question Text *Is the condition of steel atmospheric or low pressure tanks acceptable?*
Assets Covered [Ferndale Storage Terminal](#)

FS.FG: Facilities General

67. Question Result, ID, [Sat, FS.FG.FACPROTECT.O, 195.436](#) (also presented in: PD.SN)
References
Question Text *Are facilities adequately protected from vandalism and unauthorized entry?*
Assets Covered [Ferndale Storage Terminal](#)

68. Question Result, ID, [Sat, FS.FG.IGNITION.O, 195.438](#) (also presented in: PD.SN)
References
Question Text *Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?*
Assets Covered [Ferndale Storage Terminal](#)

69. Question Result, ID, [Sat, FS.FG.SIGNAGE.O, 195.434](#) (also presented in: PD.SN)
References
Question Text *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?*
Assets Covered [Ferndale Storage Terminal](#)

70. Question Result, ID, [Sat, FS.FG.SIGNAGE.P, 195.402\(c\)\(3\) \(195.434\)](#) (also presented in: PD.SN)
References
Question Text *Does the process require operator signs to be posted around each pump station and breakout tank area?*
Assets Covered [Ferndale Storage Terminal](#)
Result Notes [See:](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

[3.0 Normal Operating Procedures](#)

[4.0 Inspection, Maintenance, and Testing Procedures](#)

[4.17 Records and maps](#)

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[MIP-403 Pipe Repair](#)

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[4.2 Line Markers, Signs and Security](#)

[MIP-202 ROW Inspection and Maintenance](#)

71. Question Result, ID, [Sat, FS.FG.IGNITION.P, 195.402\(c\)\(3\) \(195.438\)](#) (also presented in: PD.SN)
References
Question Text *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 the presence of flammable vapors?*
Assets Covered [Ferndale Storage Terminal](#)
Result Notes [See:](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

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4.12 Prevention of Accidental Ignition

72. Question Result, ID, References Sat, FS.FG.PROTECTION.P, 195.402(c)(3) (195.436) (also presented in: PD.SN)

Question Text *Does the process require facilities to be protected from vandalism and unauthorized entry?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

4.12 Prevention of Accidental Ignition

73. Question Result, ID, References Sat, FS.FG.FIREPROT.P, 195.402(c)(3) (195.430(a), 195.430(b), 195.430(c))

Question Text *Does the process require firefighting equipment at pump station/breakout tank areas?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

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4.12 Prevention of Accidental Ignition

74. Question Result, ID, References **Sat, FS.FG.FIREPROT.R, 195.404(c)(3) (195.430(a), 195.430(b), 195.430(c))**

Question Text *Are records of inspections of firefighting equipment adequate?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

4.17 Records and Maps

2.6 Fire control system

75. Question Result, ID, References **Sat, FS.FG.FIREPROT.O, 195.430(a) (195.430(b), 195.430(c), 195.262(e))**

Question Text *Has adequate fire protection equipment been installed at pump station/breakout tank areas and is it maintained properly?*

Assets Covered **Ferndale Storage Terminal**

FS.PS: Pump Stations

76. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTEST.R, 195.404(c) (195.428(a))** (also presented in: MO.LMOPP)

Question Text *Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

77. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTESTHVL.R, 195.404(c) (195.428(a))** (also presented in: MO.LMOPP)

Question Text *Do records indicate inspection and testing of each overpressure safety device on HVL pipelines at intervals not to exceed 7.5 months, but at least twice each calendar year?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

78. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTEST.O, 195.428(a)** (also presented in: MO.LMOPP)

Question Text *Are inspections of overpressure safety devices adequate (including HVL lines)?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

79. Question Result, ID, References **NA, MO.LMOPP.LAUNCHRECVRELIEF.O, 195.426** (also presented in: MO.LMOPP)

Question Text *Are launchers and receivers equipped with relief devices?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

FS.TS: Tanks and Storage

80. Question Result, ID, References **Sat, FS.TS.PRVTSTHVLBO.P, 195.402(c)(3) (195.428(b))**

Question Text *Does the process require inspection and testing of pressure relief valves on HVL pressure breakout tanks at the required frequency?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and

Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

2.1.6.1 Overpressure Protection

4.13 Overpressure Safety Devices and Overfill Protection Systems

81. Question Result, ID, References Sat, FS.TS.PRVTSTHVLBO.R, 195.404(c)(3) (195.428(b))

Question Text *Do records document testing and inspection of relief valves on HVL pressure breakout tanks at the required frequency?*

Assets Covered Ferndale Storage Terminal

Result Notes 4.17 Records and Maps

2.1.6.1 Overpressure Protection

4.13 Overpressure Safety Devices and Overfill Protection Systems

82. Question Result, ID, References NA, FS.TS.PRVTSTHVLBO.O, 195.428(a)

Question Text *Do pressure control devices installed on HVL pressure breakout tanks appear to be in satisfactory mechanical condition and to be functioning properly?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

83. Question Result, ID, References Sat, FS.TS.OVERFILLBO.P, 195.402(c)(3) (195.428(a), 195.428(c), 195.428(d))

Question Text *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.]*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and

Testing Procedures

4.17 Records and maps

App F Drawing List

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2.1.6.1 Overpressure Protection

4.13 Overpressure Safety Devices and Overfill Protection Systems

84. Question Result, ID, References Sat, FS.TS.OVERFILLBO.R, 195.404(c)(3) (195.428(a), 195.428(c), 195.428(d))

Question Text *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.]*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and Maps

2.1.6.1 Overpressure Protection

4.13 Overpressure Safety Devices and Overfill Protection Systems

85. Question Result, ID, References Sat, FS.TS.OVERFILLBO.O, 195.428(c)

Question Text *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.]*

Assets Covered Ferndale Storage Terminal

86. Question Result, ID, References Sat, FS.TS.BOINSPECTION.O, 195.432(a) (195.432(b), 195.432(c), 195.401(b)) (also presented in: FS.TSAPIINSPECT)

Question Text *Is the condition of steel atmospheric or low pressure tanks acceptable?*

Assets Covered Ferndale Storage Terminal

87. Question Result, ID, References Sat, FS.TS.IGNITIONBO.P, 195.402(c)(3) (195.405(a))

Question Text *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?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and

Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

4.12 Prevention of Accidental Ignition

88. Question Result, ID, References **Sat, FS.TS.IGNITIONBO.R, 195.404(c) (195.405(a))**
 Question Text *Do records indicate protection against ignitions arising out of static electricity, lightning, and stray currents during operation and maintenance activities of aboveground breakout tanks?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **See:**
- 4.17 Records and Maps**
- 4.12 Prevention of Accidental Ignition**
89. Question Result, ID, References **NA, FS.TS.FLOATINGROOF.P, 195.402(c)(3) (195.405(b))**
 Question Text *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?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- ***FIXED DOME TANKS*****
90. Question Result, ID, References **NA, FS.TS.FLOATINGROOF.R, 195.404(c) (195.405(b))**
 Question Text *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?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- ***FIXED DOME TANKS*****
91. Question Result, ID, References **NA, FS.TS.IMPOUNDBO.R, 195.404(c) (195.264(b))**
 Question Text *If a breakout tank first went into service after October 2, 2000 do records indicate it has an adequate impoundment?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- Tanks were built in 1974 and 1994**
- **No such facilites*****
92. Question Result, ID, References **NA, FS.TS.IMPOUNDBO.O, 195.264(b)**
 Question Text *If a breakout tank first went into service after October 2, 2000 does it have an adequate impoundment?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
93. Question Result, ID, References **NA, FS.TS.VENTBO.R, 195.404(c) (195.264(d))**
 Question Text *Do records indicate that normal/emergency relief venting and pressure/vacuum-relieving devices installed on aboveground breakout tanks after October 2, 2000 are adequate?*
 Assets Covered **Ferndale Storage Terminal**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- Tanks were built in 1974 and 1994**
- **No such facilites*****

94. Question Result, ID, References **Sat, FS.TS.PRESSTESTBO.R, 195.310(a) (195.310(b), 195.307)**
Question Text *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?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**

MIP-301 Pipe Hydrostatic Testing,

MIP-604 Hydrostatic Testing of

Atmospheric Storage Tanks,

App D Records Retention

FS.VA: Valves

95. Question Result, ID, References **Sat, MO.LM.VALVEMAJNT.R, 195.404(c) (195.420(a), 195.420(b))** (also presented in: MO.LM)
Question Text *Do records indicate each mainline valve was inspected as required?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**

4.17 Records and Maps

4.10 Transmission Line Valve and Vault Inspection

MIP-802 Valve and Vault Inspections,

MIP-803 Valve Repair

IM.HC: High Consequence Areas

96. Question Result, ID, References **NA, IM.HC.HCALOCATION.P, 195.452(f)(1) (195.452(a), 195.452(d)(3), 195.452(b)(2))**
Question Text *Does the process require the identification of HCA-affecting pipe segments include steps to identify, document, and maintain up-to-date geographic locations and boundaries of HCAs using the NPMS and other information sources as necessary?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

The facility is not subject to this rule

97. Question Result, ID, References **NA, IM.HC.HCALOCATION.R, 195.452(l)(1)(ii) (195.452(f)(1), 195.452(a), 195.452(b)(2), 195.452(d)(3), 195.452(j)(1))**
Question Text *Do records indicate that locations and boundaries of HCA-affecting pipe segments are correctly identified and maintained up-to-date?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

The facility is not subject to this rule

98. Question Result, ID, References **NA, IM.HC.HCALOCATION.O, 195.452(b)(5) (195.452(a), 195.452(b)(2), 195.452(f)(1))**
Question Text *Are locations and boundaries of pipe segments that can affect HCAs correctly identified and maintained up-to-date in accordance with the program?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

IM.PM: Preventive and Mitigative Measures

99. Question Result, ID, References **NA, IM.PM.PMMPREVENTIVE.R, 195.452(l)(1)(ii) (195.452(f)(6), 195.452(i)(1), 195.452(i)(2))**

Question Text *Do the records indicate that preventive actions have been considered and implemented?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

The facility is not subject to this rule.

****No such facilities*****

MO.LO: Liquid Pipeline Operations

100. Question Result, ID, References **Sat, MO.LO.OMMANUALREVIEW.R, 195.402(a)**

Question Text *Do records indicate annual reviews of the written procedures in the manual were conducted as required?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See 1.3 Review of Manuals**

101. Question Result, ID, References **Sat, MO.LO.OMHISTORY.P, 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))**

Question Text *Does the process address making construction records, maps, and operating history available as necessary for safe operation and maintenance?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

1.3 Review of Manuals

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

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MIP-403 Pipe Repair

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4.17 Records and Maps

102. Question Result, ID, References **Sat, MO.LO.OMLOCATION.O, 195.402(a)**

Question Text *Are appropriate parts of the manual kept at locations where operations and maintenance activities are conducted?*

Assets Covered **Ferndale Storage Terminal**

103. Question Result, ID, References **Sat, MO.LO.OMHISTORY.R, 195.404(a) (195.404(c), 195.9, 195.402(c)(1))**

Question Text *Do records indicate current maps and records of the pipeline system are maintained and made available as necessary?*

Assets Covered **Ferndale Storage Terminal**

Result Notes See:

4.17 Records and Maps

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

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104. Question Result, ID, References Sat, MO.LO.OMHISTORY.O, 195.404(a) (195.404(c), 195.9, 195.402(c)(1))

Question Text *Are current maps and records of its pipeline systems available to appropriate operating personnel?*

Assets Covered Ferndale Storage Terminal

105. Question Result, ID, References Sat, MO.LO.OMEFFECTREVIEW.R, 195.402(a) (195.402(c)(13), 195.404(a))

Question Text *Do records indicate periodic review of the work done by operator personnel to determine the effectiveness of the procedures used in normal operation and maintenance and corrective action taken where deficiencies are found?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

1.3 Review of Manuals

8.6 Review of Personnel Response

3.2 Controlling

4.17 Records and Maps

*No Deficiencies**

106. Question Result, ID, References Sat, MO.LO.OPRECORDS.R, 195.404(b) (195.402(c)(3))

Question Text *Does the operator maintain operating records as required?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.17 Records and Maps

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

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MO.LOOPER: Liquid Pipeline Startup and Shutdown Operations

107. Question Result, ID, References **Sat, MO.LOOPER.PRESSURELIMIT.R, 195.404(b) (195.402(c)(7))**

Question Text *Do records indicate the operator assured that pressure limitations on the pipeline were not exceeded during startups or shut-ins?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

4.17 Records and Maps

4.8 Planned Shutdown Procedures,

4.9 Planned Startup Procedures

108. Question Result, ID, References **NA, MO.LOOPER.FAILSAFE.R, 195.402(a) (195.402(c)(8))**

Question Text *Do records indicate pressures and flow conditions were monitored as required on pipelines that are not equipped to fail safe?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

109. Question Result, ID, References **Sat, MO.LOOPER.FAILSAFE.O, 195.402(a) (195.402(c)(8))**

Question Text *Does the operator have the ability to monitor the pipeline pressure and flow conditions from an attended location on a pipeline that is not designed to fail safe?*

Assets Covered **Ferndale Storage Terminal**

MO.LMOPP: Liquid Pipeline Overpressure Protection

110. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTEST.R, 195.404(c) (195.428(a))** (also presented in: FS.PS)

Question Text *Do records indicate inspection and testing of each overpressure safety device on its non-HVL pipelines at intervals not to exceed 15 months, but at least once each calendar year?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

MO.LOMOP: Liquid Pipeline MOP

111. Question Result, ID, References **Sat, MO.LOMOP.MOPDETERMINE.R, 195.402(c)(3) (195.406(a), 195.406(b), 195.302(b), 195.302(c))**

Question Text *Do records indicate the maximum operating pressure was established in accordance with 195.406?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

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2.1.6 Maximum Operating Pressure, Appendix C

MIP-301 Pipe Hydrostatic Testing (4.0)

MIP-803 Valve Repair (5.3.1) 4.14

Hydrostatic Testing

MO.LMOPP: Liquid Pipeline Overpressure Protection

112. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTESTHVL.R, 195.404(c) (195.428(a))** (also presented in: FS.PS)
Question Text *Do records indicate inspection and testing of each overpressure safety device on HVL pipelines at intervals not to exceed 7.5 months, but at least twice each calendar year?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
113. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTEST.O, 195.428(a)** (also presented in: FS.PS)
Question Text *Are inspections of overpressure safety devices adequate (including HVL lines)?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
114. Question Result, ID, References **NA, MO.LMOPP.LAUNCHRECVRELIEF.O, 195.426** (also presented in: FS.PS)
Question Text *Are launchers and receivers equipped with relief devices?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

MO.RW: ROW Markers, Patrols, Monitoring and Analysis

115. Question Result, ID, References **Sat, MO.RW.PATROL.R, 195.412(a) (195.412(b))** (also presented in: PD.RW)
Question Text *Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**
- 4.1 Right-of-Way Inspection
- MIP-202 ROW Inspection and Maintenance
116. Question Result, ID, References **Sat, MO.RW.ROWCONDITION.O, 195.412(a)** (also presented in: PD.RW)
Question Text *Are the ROW conditions acceptable for the type of patrolling used?*
Assets Covered **Ferndale Storage Terminal**

MO.ABNORMAL: Liquid Pipeline Abnormal Operations

117. Question Result, ID, References **NA, MO.ABNORMAL.ABNORMAL.R, 195.404(b) (195.402(d)(1))**

Question Text *Do records indicate operator's personnel responded to indications of abnormal operations as required by the written procedures?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

*****No Such Conditions***** If conditions existed, facility would cease operations

See:

4.17 Records and Maps

5.5 Unintended Valve Closure

5.6 Change in Pressure

5.7 Loss of Communications

5.8 Abnormal operations

MO.RW: ROW Markers, Patrols, Monitoring and Analysis

118. Question Result, ID, References **Sat, MO.RW.ROWMARKER.O, 195.410(a) (195.410(b), 195.410(c))** (also presented in: PD.RW)

Question Text *Are line markers placed and maintained as required?*

Assets Covered **Ferndale Storage Terminal**

MO.LM: Liquid Pipeline Maintenance

119. Question Result, ID, References **Sat, MO.LM.VALVEMAIN.T.R, 195.404(c) (195.420(a), 195.420(b))** (also presented in: FS.VA)

Question Text *Do records indicate each mainline valve was inspected as required?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

4.17 Records and Maps

4.10 Transmission Line Valve and Vault Inspection

MIP-802 Valve and Vault Inspections,

MIP-803 Valve Repair

MO.ABNORMAL: Liquid Pipeline Abnormal Operations

120. Question Result, ID, References **NA, MO.ABNORMAL.ABNORMALREVIEW.R, 195.404(b) (195.402(d)(5))**

Question Text *Do records indicate post-event reviews of actions taken by operator personnel to determine the effectiveness of the abnormal operation procedures and whether corrective actions were taken deficiencies were found?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

*****No Such Conditions***** If conditions existed, facility would cease operations

See:

4.17 Records and Maps

5.5 Unintended Valve Closure

5.6 Change in Pressure

5.7 Loss of Communications

5.8 Abnormal operations

PD.DP: Damage Prevention

121. Question Result, ID, References [Sat, PD.DP.ONECALL.O, 195.442\(c\)\(3\)](#)

Question Text *Observe operator's process for a "One Call" Ticket.*

Assets Covered [Ferndale Storage Terminal](#)

122. Question Result, ID, References [Sat, PD.DP.PROGRAM.R, 195.442\(a\)](#)

Question Text *Do records indicate the damage prevention program is being carried out as written?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[4.3.1 Damage Prevention](#)

[7.7 Pipeline Damage Reports](#)

PD.PA: Public Awareness

123. Question Result, ID, References [Sat, PD.PA.AUDIENCEID.R, 195.440\(d\) \(195.440\(e\), 195.440\(f\), API RP 1162 Section 2.2, API RP 1162 Section 3\)](#)

Question Text *Do records identify the individual stakeholders in the four affected stakeholder audience groups: (1) affected public, (2) emergency officials, (3) local public officials, and (4) excavators, as well as affected municipalities, school districts, businesses, and residents to which it sends public awareness materials and messages?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See 4.3.2 Public Awareness](#)

124. Question Result, ID, References [Sat, PD.PA.EDUCATE.R, 195.440\(d\) \(195.440\(f\)\)](#)

Question Text *Did delivered messages specifically include provisions to educate the public, emergency officials, local public officials, and excavators on: (1) Use of a one-call notification system prior to excavation and other damage prevention activities; (2) Possible hazards associated with unintended releases from a hazardous liquid or carbon dioxide pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a hazardous liquid or carbon dioxide pipeline release; and (5) Procedures to report such an event?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See 4.3.2 Public Awareness](#)

125. Question Result, ID, References [Sat, PD.PA.LOCATIONMESSAGE.R, 195.440\(e\) \(195.440\(f\)\)](#)

Question Text *Were messages developed and delivered to advise affected municipalities, school districts, businesses, and residents of pipeline facility location?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See 4.3.2 Public Awareness](#)

126. Question Result, ID, References [Sat, EP.ERL.LIAISON.R, 195.402\(a\) \(195.402\(c\)\(12\), 195.440\(c\), API RP 1162 Section 4.4\)](#) (also presented in: [EP.ERL](#))

Question Text *Do records indicate that liaison has been established and maintained with appropriate fire, police, public officials, and utility owners?*

Assets Covered Ferndale Storage Terminal

Result Notes 1.3 Review of manuals

6.4 Public liaison requirements

4.3.2 Public awareness

127. Question Result, ID, References Sat, PD.PA.LANGUAGE.R, 195.440(g) (API RP 1162 Section 2.3.1)

Question Text *Were materials and messages developed and delivered in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?*

Assets Covered Ferndale Storage Terminal

Result Notes See 4.3.2 Public Awareness

128. Question Result, ID, References Sat, PD.PA.EVALIMPL.R, 195.440(c) (195.440(i), API RP 1162 Section 8.3)

Question Text *Has an audit or review of the public awareness program implementation been performed annually since the program was developed?*

Assets Covered Ferndale Storage Terminal

Result Notes See 4.3.2 Public Awareness

129. Question Result, ID, References Sat, PD.PA.MEASUREBOTTOM.R, 195.440(c) (API RP 1162 Section 8.4.4)

Question Text *Did the operator attempt to measure bottom-line results of the program by tracking third-party incidents and consequences including: (1) near misses, (2) excavation damages resulting in pipeline failures, (3) excavation damages that do not result in pipeline failures?*

Assets Covered Ferndale Storage Terminal

Result Notes See 4.3.2 Public Awareness

130. Question Result, ID, References Sat, PD.PA.CHANGES.R, 195.440(c) (API RP 1162 Section 2.7 (Step 12), API RP 1162 Section 8.5)

Question Text *Were needed changes and/or modifications to the program identified and documented based on the results and findings of the program effectiveness evaluations?*

Assets Covered Ferndale Storage Terminal

Result Notes See 4.3.2 Public Awareness

PD.RW: ROW Markers, Patrols, Monitoring

131. Question Result, ID, References Sat, MO.RW.PATROL.R, 195.412(a) (195.412(b)) (also presented in: MO.RW)

Question Text *Do records indicate ROW surface conditions and crossings under navigable waterways were inspected, and reporting and appropriate mitigation performed?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

4.1 Right-of-Way Inspection

MIP-202 ROW Inspection and Maintenance

132. Question Result, ID, References Sat, MO.RW.ROWCONDITION.O, 195.412(a) (also presented in: MO.RW)

Question Text *Are the ROW conditions acceptable for the type of patrolling used?*

Assets Covered Ferndale Storage Terminal

133. Question Result, ID, References Sat, MO.RW.ROWMARKER.O, 195.410(a) (195.410(b), 195.410(c)) (also presented in: MO.RW)

Question Text *Are line markers placed and maintained as required?*

Assets Covered Ferndale Storage Terminal

134. Question Result, ID, References Sat, PD.RW.INFORMATION.R, 195.404(c) (195.402(c)(3), 195.452(f)(3), 195.452(g))

Question Text *Do records show damage prevention information being gathered and recorded during pipeline patrols and surveillance and then analyzed is available for review?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[4.17 Records and Maps](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

[3.0 Normal Operating Procedures](#)

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[195.452 - The facility is not subject to this rule.](#)

PD.SN: Facilities Signage and Security

135. Question Result, ID, References [Sat, FS.FG.FACPROTECT.O, 195.436](#) (also presented in: [FS.FG](#))

Question Text *Are facilities adequately protected from vandalism and unauthorized entry?*

Assets Covered [Ferndale Storage Terminal](#)

136. Question Result, ID, References [Sat, FS.FG.IGNITION.O, 195.438](#) (also presented in: [FS.FG](#))

Question Text *Is there signage that prohibits smoking and open flames around pump stations, launchers and receivers, breakout tank areas, or other applicable facilities?*

Assets Covered [Ferndale Storage Terminal](#)

137. Question Result, ID, References [Sat, FS.FG.SIGNAGE.O, 195.434](#) (also presented in: [FS.FG](#))

Question Text *Are there operator signs around each pumping station, breakout tank area, and other applicable facilities?*

Assets Covered [Ferndale Storage Terminal](#)

138. Question Result, ID, References [Sat, FS.FG.IGNITION.P, 195.402\(c\)\(3\) \(195.438\)](#) (also presented in: [FS.FG](#))

Question Text *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 the presence of flammable vapors?*

Assets Covered [Ferndale Storage Terminal](#)

Result Notes [See:](#)

[2.1.5 Pipe Data](#)

[2.3.3 Corrosion Control Maps](#)

[3.0 Normal Operating Procedures](#)

[4.0 Inspection, Maintenance, and Testing Procedures](#)

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

4.12 Prevention of Accidental Ignition

139. Question Result, ID, References Sat, FS.FG.PROTECTION.P, 195.402(c)(3) (195.436) (also presented in: FS.FG)

Question Text *Does the process require facilities to be protected from vandalism and unauthorized entry?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

4.12 Prevention of Accidental Ignition

140. Question Result, ID, References Sat, FS.FG.SIGNAGE.P, 195.402(c)(3) (195.434) (also presented in: FS.FG)

Question Text *Does the process require operator signs to be posted around each pump station and breakout tank area?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

4.2 Line Markers, Signs and Security

MIP-202 ROW Inspection and Maintenance

RPT.NR: Notices and Reporting

141. Question Result, ID, References **NA, EP.EPO.OPASUBMITTAL.R, 194.101(a) (194.101(b), 194.119(e))** (also presented in: EP.EPO)
Question Text *If the operator is required to have a Facility Response Plan, does the current plan submitted and approved by PHMSA cover all the required pipeline assets?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

No such facilities
NA for facility; 49 CFR 194- Response Plans for onshore OIL Pipelines

RPT.RR: Regulatory Reporting (Traditional)

142. Question Result, ID, References **Sat, RPT.RR.ANNUALREPORT.R, 195.49**
Question Text *Do the records indicate that complete and accurate Annual Reports have been submitted?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See 7.8 Annual Reports**

143. Question Result, ID, References **NA, RPT.RR.ACCIDENTREPORT.R, 195.54(a) (195.50(a), 195.50(b), 195.50(c), 195.50(d), 195.50(e))**
Question Text *Do records indicate the original accident reports were filed as required?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

*****No Accident Reports*****

7.0 Notifications and Reporting

ERP

144. Question Result, ID, References **NA, RPT.RR.ACCIDENTREPORTSUPP.R, 195.54(b)**
Question Text *Do records indicate accurate supplemental accident reports were filed and within the required timeframe?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

*****No Accident Reports*****

7.0 Notifications and Reporting

ERP

145. Question Result, ID, References **NA, RPT.RR.SRCR.R, 195.56(a) (195.55(a), 195.55(b), 195.56(b))**
Question Text *Do records indicate safety-related condition reports were filed as required?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

*****No Safety Related Conditions*****

MIP-102 Safety-related Conditions

7.6 Safety-related Conditions

146. Question Result, ID, References **Sat, RPT.RR.NPMSANNUAL.R, 195.61(a) (195.61(b))**
Question Text *Do records indicate: NPMS submissions are completed each year, on or before June 15, representing all in service, idle and retired assets as of December 31 of the previous year, and if no modifications occurred an email to that effect was submitted?*
Assets Covered **Ferndale Storage Terminal**

TD.ATM: Atmospheric Corrosion

147. Question Result, ID, References Sat, TD.ATM.ATMCORRODECOAT.P, 195.402(c)(3) (195.581(a), 195.581(b), 195.581(c))

Question Text *Does the process give adequate instruction for the protection of pipeline against atmospheric corrosion?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

2.3.4 Atmospheric Corrosion Monitoring

148. Question Result, ID, References Sat, TD.ATM.ATMCORRODECOAT.R, 195.589(c) (195.581(a), 195.581(b), 195.581(c))

Question Text *Do records document adequate protection of pipeline against atmospheric corrosion?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

Reviewed Operator Routine Duties (ORD)

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

2.3.4 Atmospheric Corrosion Monitoring

149. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.P, 195.402(c)(3) (195.583(a), 195.583(b), 195.583(c))

Question Text *Does the process give adequate instruction for the inspection of aboveground pipeline segments exposed to the atmosphere?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

2.3.4 Atmospheric Corrosion Monitoring

150. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.R, 195.589(c) (195.583(a), 195.583(b), 195.583(c))
Question Text *Do records document inspection of aboveground pipe exposed to atmospheric corrosion?*
Assets Covered Ferndale Storage Terminal

151. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.O, 195.583(c) (195.581(a))
Question Text *Is aboveground pipe that is exposed to atmospheric corrosion protected?*
Assets Covered Ferndale Storage Terminal

TD.CPBO: External Corrosion - Breakout Tank Cathodic Protection

152. Question Result, ID, References Sat, TD.CPBO.BO651.P, 195.402(c)(3) (195.565, 195.563(d))
Question Text *Does the process describe when cathodic protection must be installed on breakout tanks?*
Assets Covered Ferndale Storage Terminal
Result Notes ***Reviewed Operator Routine Duties (ORD)***

See:

2.3.3 Records and Maps

2.3.4 Atmospheric Corrosion Monitoring

153. Question Result, ID, References Sat, TD.CPBO.BO.P, 195.402(c)(3) (195.573(d))
Question Text *Does the process adequately detail when and how cathodic protection systems will be inspected on breakout tanks?*
Assets Covered Ferndale Storage Terminal
Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

154. Question Result, ID, References Sat, TD.CPBO.BO.R, 195.589(c) (195.573(d))

Question Text *Do records adequately document when and how cathodic protection systems were inspected on breakout tanks?*

Assets Covered Ferndale Storage Terminal

Result Notes ***PHILIPS Binder***

See:

2.3.3 Records and Maps
MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

155. Question Result, ID, References Sat, TD.CPBO.BO.O, 195.573(d)

Question Text *Are cathodic protection monitoring tests performed correctly on breakout tank bottoms?*

Assets Covered Ferndale Storage Terminal

156. Question Result, ID, References Sat, TD.CPBO.DEFICIENCYBO.P, 195.402(c)(3) (195.573(e))

Question Text *Does the process require correction of any identified deficiencies in corrosion control for breakout tanks?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

157. Question Result, ID, References Sat, TD.CPBO.DEFICIENCYBO.R, 195.589(c) (195.573(e))

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in breakout tank corrosion control?*

Assets Covered Ferndale Storage Terminal

Result Notes *** No identified corrosion control deficiencies on breakout tanks)

See:

2.3.3 Records and Maps
MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

TD.CP: External Corrosion - Cathodic Protection

158. Question Result, ID, References NA, TD.CP.UNPROTECT.R, 195.589(c) (195.573(b)(1), 195.573(b)(2))

Question Text *Do records document the adequate re-evaluation of buried pipelines with no cathodic protection for areas of active corrosion?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

No buried pipelines with no cathodic protection

2.3.3 Records and Maps
MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

159. Question Result, ID, References Sat, TD.CP.ISOLATE.R, 195.589(c) (195.575(a), 195.575(b), 195.575(c), 195.575(d))

Question Text *Do records document adequate electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.13)

2.3 Corrosion Control Program

160. Question Result, ID, References Sat, TD.CP.ISOLATE.O, 195.575(a) (195.575(b), 195.575(c), 195.575(d))

Question Text *Are measures performed to ensure electrical isolation of each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?*

Assets Covered Ferndale Storage Terminal

161. Question Result, ID, References NA, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e)) (also presented in: TD.CPMONITOR, TD.CPEXPOSED)

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

No deficiencies

See:

2.3.3 Records and Maps
MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

162. Question Result, ID, References **NA, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b))** (also presented in: TD.CP.MONITOR)
- Question Text *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?*
- Assets Covered **Ferndale Storage Terminal**
- Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

See 2.3.3 Records and Maps

TD.CP.MONITOR: External Corrosion - Cathodic Protection Monitoring

163. Question Result, ID, References **Sat, TD.CP.MONITOR.TESTLEADINSTALL.R, 195.589(c) (195.567(b))**
- Question Text *Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart H?*
- Assets Covered **Ferndale Storage Terminal**
- Result Notes ****Phillip's binder***

See:
2.3.3 Records and Maps

MIP-302 Exposed Pipe Inspection

164. Question Result, ID, References **Sat, TD.CP.MONITOR.TESTLEADMAINT.O, 195.567(c)**
- Question Text *Are CP test lead wires properly maintained?*
- Assets Covered **Ferndale Storage Terminal**
165. Question Result, ID, References **Sat, TD.CP.MONITOR.MONITORCRITERIA.P, 195.402(c)(3) (195.571)**
- Question Text *Does the process require that CP monitoring criteria be used that is acceptable?*
- Assets Covered **Ferndale Storage Terminal**
166. Question Result, ID, References **Sat, TD.CP.MONITOR.MONITORCRITERIA.R, 195.589(c) (195.571)**
- Question Text *Do records document that CP monitoring criteria used was acceptable?*
- Assets Covered **Ferndale Storage Terminal**
- Result Notes **See:**

2.3.3 Records and Maps

MIP-501 Cathodic Protection (2.2 and 2.4),

MIP-502 Internal Corrosion Control
MIP-302 Exposed Pipe Inspection,

2.3 Corrosion Control Program

2.1.1 Codes and Standards

167. Question Result, ID, References **Sat, TD.CP.MONITOR.MONITOR.O, 195.571**
- Question Text *Do the methods for taking CP monitoring readings allow for the application of appropriate CP monitoring criteria?*
- Assets Covered **Ferndale Storage Terminal**
168. Question Result, ID, References **Sat, TD.CP.MONITOR.TEST.R, 195.589(c) (195.573(a)(1))**

Question Text *Do records adequately document required tests have been done on pipe that is cathodically protected?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

169. Question Result, ID, References NA, TD.CPMONITOR.CIS.R, 195.589(c) (195.573(a)(2))

Question Text *Do records document, when circumstances dictated a need for close interval surveys, dates of completed surveys, data from completed surveys and analysis of completed surveys?*

Assets Covered Ferndale Storage Terminal

Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

170. Question Result, ID, References Sat, TD.CPMONITOR.CURRENTTEST.R, 195.589(c) (195.573(c))

Question Text *Do records document adequate electrical checks of rectifiers, interference bonds, diodes, and reverse current switches and at the required intervals?*

Assets Covered Ferndale Storage Terminal

Result Notes **Phillip's binder**

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

171. Question Result, ID, References Sat, TD.CPMONITOR.CURRENTTEST.O, 195.573(c)

Question Text *Are rectifiers, interference bonds, diodes, and reverse current switches properly maintained and are they functioning properly?*

Assets Covered Ferndale Storage Terminal

172. Question Result, ID, References Sat, TD.CPMONITOR.INTFRCURRENT.P, 195.402(c)(3) (195.577(a), 195.577(b))

Question Text *Does the operator have a process in place to minimize detrimental effects of interference currents on its pipeline system and do the procedures for designing and installing cathodic protection systems provide for the minimization of detrimental effects of interference currents on existing adjacent metallic structures?*

Assets Covered Ferndale Storage Terminal

Result Notes See:

2.1.5 Pipe Data

2.3.3 Corrosion Control Maps

3.0 Normal Operating Procedures

4.0 Inspection, Maintenance, and Testing Procedures

4.17 Records and maps

App F Drawing List

MIP-403 Pipe Repair

ERP

MIP-501 Cathodic Protection (5.5 Stray Current Interference)

2.3 Corrosion Control Program

173. Question Result, ID, References **Sat, TD.CP.MONITOR.INTFRCURRENT.R, 195.589(c) (195.577(a))**

Question Text *Do records document that the operator has an effective program in place to minimize the detrimental effects of interference currents on their pipeline system, and is minimizing detrimental effects of interference currents from their CP systems on other underground metallic structures?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **See:**

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.5 Stray Current Interference)

2.3 Corrosion Control Program

174. Question Result, ID, References **NA, TD.CP.MONITOR.INTFRCURRENT.O, 195.577(a)**

Question Text *Are areas of potential stray current identified, and if found, the detrimental effects of stray currents minimized?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

175. Question Result, ID, References **NA, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e))** (also presented in: TD.CP, TD.CPEXPOSED)

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

****No deficiencies****

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

176. Question Result, ID, References **NA, TD.CP.MAPRECORD.R, 195.589(a) (195.589(b))** (also presented in: TD.CP)

Question Text *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?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

See 2.3.3 Records and Maps

TD.CPEXPOSED: External Corrosion - Exposed Pipe

177. Question Result, ID, References **NA, TD.CPEXPOSED.EXPOSEINSPECT.R, 195.589(c) (195.569)**

Question Text *Do records document that exposed buried piping was adequately examined for corrosion and deteriorated coating?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-302 Exposed Pipe Inspection

2.3 Corrosion Control Program

178. Question Result, ID, References **NA, TD.CPEXPOSED.EXTCORRODEEVAL.R, 195.589(c) (195.587)**

Question Text *Do records adequately document the evaluation of externally corroded pipe?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

See:

2.3.3 Records and Maps

MIP-302 Exposed Pipe Inspection

MIP-403 Pipe Repair (5.1)

179. Question Result, ID, References **NA, TD.CPEXPOSED.EXTCORRODEREPAIR.R, 195.589(c) (195.585(a), 195.585(b))**

Question Text *Do records document the repair or replacement of pipe that has been externally corroded to an extent that there is not sufficient remaining pipe wall strength?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**

See:

2.3.3 Records and Maps

MIP-302 Exposed Pipe Inspection

MIP-403 Pipe Repair (5.1)

180. Question Result, ID, References **NA, TD.CP.DEFICIENCY.R, 195.589(c) (195.573(e))** (also presented in: TD.CP, TD.CPMONITOR)

Question Text *Do records document adequate operator actions taken to correct any identified deficiencies in corrosion control?*

Assets Covered **Ferndale Storage Terminal**

Result Notes **No such activity/condition was observed during the inspection.**

****No deficiencies****

See:

2.3.3 Records and Maps
MIP-501 Cathodic Protection (5.4.1, 5.6.2, 5.12.3)

2.3 Corrosion Control Program

TD.ICP: Internal Corrosion - Preventive Measures

181. Question Result, ID, References NA, TD.ICP.INVESTREMED.R, 195.589(c) (195.579(a))

Question Text *Do records document investigation and remediation of the corrosive effects of hazardous liquids or carbon dioxide being transported?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

182. Question Result, ID, References NA, TD.ICP.INHIBITOR.R, 195.589(c) (195.579(b)(1), 195.579(b)(2), 195.579(b)(3))

Question Text *Do records document that corrosion inhibitors have been used in sufficient quantity?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

183. Question Result, ID, References NA, TD.ICP.EXAMINE.R, 195.589(c) (195.579(c), 195.579(a))

Question Text *Do records document examination of removed pipe for evidence of internal corrosion?*

Assets Covered Ferndale Storage Terminal

Result Notes No such activity/condition was observed during the inspection.

See:

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

184. Question Result, ID, References **NA, TD.ICP.EVALUATE.R, 195.589(c) (195.587)**
Question Text *Do records document adequate evaluation of internally corroded pipe?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **No such activity/condition was observed during the inspection.**

See:

2.3.3 Records and Maps

MIP-302 Exposed Pipe Inspection

MIP-403 Pipe Repair (5.1)

185. Question Result, ID, References **Sat, TD.ICP.BOLINING.R, 195.589(c) (195.579(d))**
Question Text *Do records document the adequate installation of breakout tank bottom linings?*
Assets Covered **Ferndale Storage Terminal**
Result Notes **See:**

2.3.3 Records and Maps

MIP-501 Cathodic Protection

MIP-502 Internal Corrosion Control

MIP-302 Exposed Pipe Inspection

2.3.5 Corrosion Control Program: Internal Corrosion

TQ.PROT9: OQ Protocol 9

186. Question Result, ID, References **Sat, TQ.PROT9.TASKPERFORMANCE.O, 195.501(a) (195.509(a))**
Question Text *Verify the qualified individuals performed the observed covered tasks in accordance with the operator's procedures or operator approved contractor procedures.*
Assets Covered **Ferndale Storage Terminal**
187. Question Result, ID, References **Sat, TQ.PROT9.QUALIFICATIONSTATUS.O, 195.501(a) (195.509(a))**
Question Text *Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.*
Assets Covered **Ferndale Storage Terminal**
188. Question Result, ID, References **Sat, TQ.PROT9.AOCRECOG.O, 195.501(a) (195.509(a))**
Question Text *Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed.*
Assets Covered **Ferndale Storage Terminal**
189. Question Result, ID, References **Sat, TQ.PROT9.VERIFYQUAL.O, 195.501(a) (195.509(a))**
Question Text *Verify the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.*
Assets Covered **Ferndale Storage Terminal**

TQ.OQ: Operator Qualification

190. Question Result, ID, References Sat, TQ.OQ.OQCONTRACTOR.R, 195.507(a) (195.507(b))

Question Text *Are adequate records containing the required elements maintained for contractor personnel?*

Assets Covered Ferndale Storage Terminal

Result Notes ****Phillip's binder****

OQ Manual

8.1 Operator Qualification Program

191. Question Result, ID, References Sat, TQ.OQ.RECORDS.R, 195.507(a) (195.507(b))

Question Text *Do records document the evaluation and qualifications of individuals performing covered tasks, and can the qualification of individuals performing covered tasks be verified?*

Assets Covered Ferndale Storage Terminal

Result Notes ****Philip's binder****

OQ Manual

8.1 Operator Qualification Program

Report Parameters: Results: all

Except as required to be disclosed by law, any inspection documentation, including completed protocol forms, summary reports, executive summary reports, and enforcement documentation are for internal use only by federal or state pipeline safety regulators. Some inspection documentation may contain information which the operator considers to be confidential. In addition, supplemental inspection guidance and related documents in the file library are also for internal use only by federal or state pipeline safety regulators (with the exception of documents published in the federal register, such as advisory bulletins). Do not distribute or otherwise disclose such material outside of the state or federal pipeline regulatory organizations. Requests for such information from other government organizations (including, but not limited to, NTSB, GAO, IG, or Congressional Staff) should be referred to PHMSA Headquarters Management.