

Inspection Output (IOR)

Generated on 2019.August.06 14:32

Inspection Information

Inspection Name	McChord Pipeline O&M Manual Review	Operator(s)	MCCHORD PIPELINE CO. (31049)	Plan Submitted	01/22/2019
Status	PLANNED	Lead	Scott Anderson	Plan Approval	01/22/2019 by Joe Subits
Start Year	2019	Team Members	Darren Tinnerstet	All Activity Start	06/03/2019
System Type	HL	Supervisor	Joe Subits	All Activity End	07/22/2019
Protocol Set ID	HL.2018.02	Director	Sean Mayo	Inspection Submitted	--
				Inspection Approval	--

Inspection Summary

Inspection Scope and Summary

This inspection consisted of an O&M Manual Review of McChord Pipeline Company

Summary of Significant Findings

No significant findings came as a result of this inspection

Primary Operator contacts and/or participants

Joseph Israel, President, McChord Pipeline Company

Nicholas Peelo, Chief Engineer, McChord Pipeline Company

Operator executive contact and mailing address for any official correspondence

Andrew Troske, Vice President, McChord Pipeline Company

Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Inspected	Total	Required % Complete
1.	O&M Review	McChord Pipeline Company unit		88980	BOT/RT Onshore Offshore GOM Crosses Nav. CO2 Biofuels Reg Rural Gather Rural Low Stress Abandoned	103	103	103		100.0%

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

Plans

McChord Pipeline O&M Manual Review

Page 1 of 17

Report Filters: Results: all

Plan # Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent Notes
1. O&M Review	Baseline Procedures (Form 3)	AR, CR, DC, EP, FS, IM, MO, PD, RPT, SRN, TD, TQ, GENERIC	P	Detail

Plan Implementations

#	Activity Name	SMAR T Act#	Start Date End Date	Focus Directive s	Involved Groups/Subgroup s	Asset s	Qst Type(s)	Planned	Required	Total Inspected	Required % Complete
1	O&M Manual Review	--	06/03/2019 07/22/2019	n/a	all planned questions	all assets	all types	103	103	103	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

This inspection has no Form data entry.

Results (all values, 103 results)

116 (instead of 103) results are listed due to re-presentation of questions in more than one sub-group.

AR.RMP: Repair Methods and Practices

1. Question Result, ID, References Sat, AR.RMP.SAFETY.P, 195.402(c)(14) (195.422(a), 195.452(h)(1))

Question Text *Does the process ensure that repairs are made in a safe manner and are made so as to prevent damage to persons and property?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section E-12.

CR.SCADA: Supervisory Control and Data Acquisition

2. Question Result, ID, References Sat, CR.SCADA.SETPOINT.P, 195.446(c)(2) (195.406(b))

Question Text *Does the process adequately define safety-related points?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-18, 2.2.

CR.LD: Leak Detection

3. Question Result, ID, References Sat, CR.LD.CPM.P, 195.402(a) (195.444, 195.446(b), 195.446(c))

Question Text *If Computational Pipeline Monitoring (CPM) is used, does it comply with guidance in API 1130 requirements in operating, maintaining, testing, record-keeping, and dispatcher training?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-17, 1.

DC.WELDINSP: Construction Weld Inspection

4. Question Result, ID, References **Sat, DC.WELDINS.P.WELDREPAIR.P, 195.202 (195.230(a), 195.230(b), 195.230(c))**
 Question Text *Are welds that are unacceptable required to be removed and/or repaired as specified by 195.230 and does the operator have repair procedures?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 7.5.1.**
5. Question Result, ID, References **Sat, DC.WELDINS.P.WELDNDT.P, 195.234(a) (195.234(b), 195.234(c))**
 Question Text *Are there processes for nondestructive testing and for determining standards of acceptability?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 7.5.**
6. Question Result, ID, References **Sat, DC.WELDINS.P.WELDNDTQUAL.P, 195.202 (195.234(b)(2))**
 Question Text *Does the process require nondestructive testing of welds (for maintenance and construction) be performed by personnel who are trained in procedures established to ensure compliance with 195.228 and in use of the testing equipment?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 7.5 / G-2, 3.**
7. Question Result, ID, References **Sat, DC.WELDINS.P.GIRTHWELDNDT.P, 195.202 (195.234(d), 195.234(e), 195.234(f), 195.234(g), 195.266)**
 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 **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 7.5.5.**

DC.WELDERQUAL: Construction Welder Qualification

8. Question Result, ID, References **Sat, DC.WELDERQUAL.WELDERQUAL.P, 195.222(a) (195.222(b))**
 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 **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 1.**

DC.WELDPROCEDURE: Construction Welding Procedures

9. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELD.P, 195.214(a)**
 Question Text *Does the process require welding to be performed by qualified welders using qualified welding procedures?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 1**
10. Question Result, ID, References **Sat, DC.WELDPROCEDURE.WELDPROCEDURE.P, 195.214(b)**
 Question Text *Are welding procedures and qualifying tests required to be recorded in detail?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section B-3, 1.3.2/8**
11. Question Result, ID, References **Sat, DC.WELDPROCEDURE.ARCBURNGRNDWIRE.P, 195.202 (195.226(a), 195.226(b), 195.226(c))**
 Question Text *Does the process address arc burns and ground wires in accordance with 195.226?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section E-2, 8/8.3 (Arc Burns)**

Maintenance Manual Section B-3, 2.9 (Ground wire)

DC.DN: Design

12. Question Result, ID, References **Sat, DC.DN.DESIGNPRESS.P, 195.106(a) (195.106(b), 195.106(c), 195.106(d), 195.106(e))**
Question Text *Does the process require the internal design pressure of the pipeline be determined in accordance with 195.106?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section E-1.**
13. Question Result, ID, References **Sat, DC.DN.ILIPASS.P, 195.202 (195.120(a))**
Question Text *Does the process require the pipeline be designed and constructed to accommodate the passage of instrumented internal inspection devices?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section E, 11**
14. Question Result, ID, References **Sat, DC.DN.CPMDESIGN.P, 195.134**
Question Text *If Computational Pipeline Monitoring (CPM) is used, does it comply with guidance in API 1130 requirements in design, operating, maintaining, testing, record-keeping, and dispatcher training?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-17, 1**

DC.MO: Maintenance and Operations

15. Question Result, ID, References **Sat, DC.MO.MOVE.P, 195.402(a) (195.424(a), 195.424(b), 195.424(c))**
Question Text *Has a process been developed for pipeline movements in accordance with 195.424?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section E-15, 1**

DC.PT: Pressure Testing

16. 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 **O&M Review**
Result Notes **Maintenance Manual, Section G-3.**
17. 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 **O&M Review**
Result Notes **Maintenance Manual Section G-3, 1.4.**

EP.ERL: Emergency Response Liquids

18. Question Result, ID, References **Sat, EP.ERL.ACCIDENTANALYSIS.P, 195.402(a) (195.402(c)(5), 195.402(c)(6))**
Question Text *Does the O&M plan include processes for analyzing pipeline accidents to determine their causes?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section D-1, 5.1.**
19. 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 **O&M Review**
Result Notes **Administrative Manual Section J-2, 2.2.**

20. 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 **O&M Review**
 Result Notes **Administrative Manual Section C-1**
Operations Manual Section IV, 5.
21. 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 **O&M Review**
 Result Notes **Administrative Manual Section C-2.**
Operations Manual IV, 5.
22. 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 **O&M Review**
 Result Notes **Administrative Manual Section C-2, 4.1.**
23. 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 **O&M Review**
 Result Notes **Operations Manual Section IV, 5.2.5**
Administrative Manual Section C..
24. 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 **O&M Review**
 Result Notes **Operations Manual Section IV.**
Administrative Manual Section C..
25. 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 **O&M Review**
 Result Notes **Operations Manual Section IV, 5.2.5**
Administrative Manual Section C..
26. 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 O&M Review

Result Notes Administrative Manual Section C-2, 4.4.

27. Question Result, ID, References NA, 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 O&M Review

Result Notes McChord Pipeline does not transport HVL's.

28. Question Result, ID, References Sat, EP.ERL.POSTEVNTREVIEW.P, 195.402(a) (195.402(e)(9))

Question Text *Does the emergency plan include processes for providing for a post-accident review of employee activities to determine whether the procedures were effective in each emergency and taking corrective action where deficiencies are found?*

Assets Covered O&M Review

Result Notes Administrative Manual Section, C-2, 5.

29. Question Result, ID, References Sat, EP.ERL.COMMSYS.P, 195.408(a) (195.408(b))

Question Text *Does the process address emergency communication system(s)?*

Assets Covered O&M Review

Result Notes Administrative Manual Section C-1

Operations Manual Section II, 2

FS.FG: Facilities General

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

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

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-2 / D-2 Exhibit S1.

31. Question Result, ID, References Sat, FS.FG.IGNITION.P, 195.402(c)(3) (195.438) (also presented in: PD.SN)

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 O&M Review

Result Notes Maintenance Manual Section D-10.

32. 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 O&M Review

Result Notes Maintenance Manual Section D-10.

33. 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 O&M Review

Result Notes Maintenance Manual D-14 / D-1 Exhibit A.

FS.PS: Pump Stations

34. Question Result, ID, References NA, MO.LMOPP.PRESSREGTESTHVL.P, 195.402(c)(3) (195.428(a)) (also presented in: MO.LMOPP)

Question Text *Does the process contain procedures for inspecting and testing each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment on HVL pipelines?*

Assets Covered O&M Review

Result Notes McChord Pipeline does not transmit HVL's.

35. Question Result, ID, References Sat, MO.LMOPP.PRESSREGTEST.P, 195.402(c)(3) (195.428(a)) (also presented in: MO.LMOPP)

Question Text *Does the process adequately detail the inspecting and testing of each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-1, Exhibit A / D-5.

36. Question Result, ID, References Sat, MO.LMOPP.LAUNCHRECVRELIEF.P, 195.402(c)(3) (195.426) (also presented in: MO.LMOPP)

Question Text *Does the process include requirements for relief devices and their proper use for launchers and receivers?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-16, 1.3 / D-16 Exhibit A

FS.VA: Valves

37. Question Result, ID, References Sat, MO.LM.VALVEMAINT.P, 195.402(c)(3) (195.420(a)) (also presented in: MO.LM)

Question Text *Does the process adequately address the maintenance program for each valve that is necessary for safe operation of the pipeline system?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3.

38. Question Result, ID, References Sat, MO.LM.VALVEMAINTBIANN.P, 195.402(c)(3) (195.420(b)) (also presented in: MO.LM)

Question Text *Does the process address inspecting each mainline valve?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3, 1.1 / D-1 Exhibit A

39. Question Result, ID, References Sat, MO.LM.VALVEPROTECT.P, 195.402(c)(3) (195.420(c)) (also presented in: MO.LM)

Question Text *Does the process contain criteria for providing protection for each valve from unauthorized operation and from vandalism?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3, 2.5.

MO.LO: Liquid Pipeline Operations

40. Question Result, ID, References Sat, MO.LO.OMMANUAL.P, 195.402(a) (195.402(c))

Question Text *Does the operator have an O&M manual, and has a procedure to properly maintain all portions of the manual?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section E-1, 1.

41. 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 O&M Review

Result Notes Maintenance Manual Section B-1, 1.2.

42. Question Result, ID, References Sat, MO.LO.OMEFFECTREVIEW.P, 195.402(a) (195.402(c)(13))

Question Text *Does the process address periodically reviewing the work done by the operator's personnel to determine the effectiveness of the procedures used in normal operation and maintenance and taking corrective action where deficiencies are found?*

Assets Covered O&M Review

Result Notes **Operations Manual Section II, 1.3**

43. Question Result, ID, References **Sat, MO.LO.SRCR.P, 195.402(a) (195.402(f), 195.55(a))**

Question Text *Does the procedure include instructions that allow personnel to recognize safety related conditions?*

Assets Covered **O&M Review**

Result Notes **Administrative Manual Section B-1, 1.3.**

44. Question Result, ID, References **Sat, MO.LO.PRESSTESTREQ.P, 195.402(c)(3) (195.302(b), 195.302(c))**

Question Text *Does the procedure require pressure testing for all lines except as allowed by 195.302(b)?*

Assets Covered **O&M Review**

Result Notes **Maintenance Manual Section G-3.**

45. Question Result, ID, References **Sat, MO.LO.OPRECORDS.P, 195.402(a) (195.402(c)(3), 195.404(b))**

Question Text *Does the process include requirements that operating records that relate to 195.402 activities be maintained?*

Assets Covered **O&M Review**

Result Notes **Maintenance Manual Section B-1, 1.2..**

MO.LOOPER: Liquid Pipeline Startup and Shutdown Operations

46. Question Result, ID, References **Sat, MO.LOOPER.PRESSURELIMIT.P, 195.402(a) (195.402(c)(7))**

Question Text *Does the process include procedures for starting up and shutting down any part of the pipeline system in a manner designed to assure operation within the limits prescribed by 195.406?*

Assets Covered **O&M Review**

Result Notes **Operations Manual Section III.**

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

Question Text *In the case of a pipeline that is not equipped to fail safe, does the process include procedures for monitoring from an attended location pipeline pressure during startup until steady state pressure and flow conditions are reached and during shut-in to assure operation within the limits of 195.406?*

Assets Covered **O&M Review**

Result Notes **McChord Pipeline has a full time monitoring in place and pro-active monitoring 24/7.**

MO.LOMOP: Liquid Pipeline MOP

48. Question Result, ID, References **Sat, MO.LOMOP.MOPDETERMINE.P, 195.402(c)(3) (195.302(c), 195.406(a))**

Question Text *Does the process include procedures for establishing the maximum operating pressure allowed in accordance with 195.406(a)?*

Assets Covered **O&M Review**

Result Notes **Maintenance Manual Section G-3.**

MO.LMOPP: Liquid Pipeline Overpressure Protection

49. Question Result, ID, References **Sat, MO.LMOPP.PRESSREGTEST.P, 195.402(c)(3) (195.428(a))** (also presented in: FS.PS)

Question Text *Does the process adequately detail the inspecting and testing of each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment?*

Assets Covered **O&M Review**

Result Notes **Maintenance Manual Section D-1, Exhibit A / D-5.**

50. Question Result, ID, References **NA, MO.LMOPP.PRESSREGTESTHVL.P, 195.402(c)(3) (195.428(a))** (also presented in: FS.PS)

Question Text *Does the process contain procedures for inspecting and testing each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment on HVL pipelines?*

Assets Covered O&M Review

Result Notes McChord Pipeline does not transmit HVL's.

51. Question Result, ID, References Sat, MO.LMOPP.LAUNCHRECVRELIEF.P, 195.402(c)(3) (195.426) (also presented in: FS.PS)

Question Text *Does the process include requirements for relief devices and their proper use for launchers and receivers?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-16, 1.3 / D-16 Exhibit A

MO.ABNORMAL: Liquid Pipeline Abnormal Operations

52. Question Result, ID, References Sat, MO.ABNORMAL.ABNORMAL.P, 195.402(a) (195.402(d)(1))

Question Text *Does the process include procedures for responding to, investigating, and correcting the cause of the listed abnormal operating conditions?*

Assets Covered O&M Review

Result Notes Operations Manual Section IV

MO.LM: Liquid Pipeline Maintenance

53. Question Result, ID, References Sat, MO.LM.VALVEMAINTEBIANN.P, 195.402(c)(3) (195.420(b)) (also presented in: FS.VA)

Question Text *Does the process address inspecting each mainline valve?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3, 1.1 / D-1 Exhibit A

54. Question Result, ID, References Sat, MO.LM.VALVEMAINTE.P, 195.402(c)(3) (195.420(a)) (also presented in: FS.VA)

Question Text *Does the process adequately address the maintenance program for each valve that is necessary for safe operation of the pipeline system?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3.

MO.ABNORMAL: Liquid Pipeline Abnormal Operations

55. Question Result, ID, References Sat, MO.ABNORMAL.ABNORMALCHECK.P, 195.402(a) (195.402(d)(2))

Question Text *Does the process include procedures for checking variations from normal operation after abnormal operations have ended at sufficient locations in the system to determine continued integrity and safe operations?*

Assets Covered O&M Review

Result Notes Operations Manual Section IV

56. Question Result, ID, References Sat, MO.ABNORMAL.ABNORMALCORRECT.P, 195.402(a) (195.402(d)(3))

Question Text *Does the process include procedures for correcting variations from normal operation of pressure and flow equipment and controls?*

Assets Covered O&M Review

Result Notes Operations Manual Section IV

MO.LM: Liquid Pipeline Maintenance

57. Question Result, ID, References Sat, MO.LM.VALVEPROTECT.P, 195.402(c)(3) (195.420(c)) (also presented in: FS.VA)

Question Text *Does the process contain criteria for providing protection for each valve from unauthorized operation and from vandalism?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-3, 2.5.

MO.ABNORMAL: Liquid Pipeline Abnormal Operations

58. Question Result, ID, References **Sat, MO.ABNORMAL.ABNORMALNOTIFY.P, 195.402(a) (195.402(d)(4))**
Question Text *Does the process include procedures for ensuring operating personnel notify responsible operator personnel where notice of an abnormal operation is received?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section C-2, 2.**
59. Question Result, ID, References **Sat, MO.ABNORMAL.ABNORMALREVIEW.P, 195.402(a) (195.402(d)(5))**
Question Text *Does the process include procedures for periodically reviewing the response of operating personnel to determine the effectiveness of the procedures for controlling abnormal operation and taking corrective action where deficiencies are found?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section C-2.**

MO.LC: Liquid Conversion

60. Question Result, ID, References **NA, MO.LC.CONVERSION.P, 195.5(a) (195.5(b), 195.5(c))**
Question Text *If any pipelines were converted into Part 195 service, was a process developed addressing all the applicable requirements?*
Assets Covered **O&M Review**
Result Notes **McChord pipeline was constructed in 1957 and not converted.**

PD.DP: Damage Prevention

61. Question Result, ID, References **Sat, PD.DP.ONECALL.P, 195.442(a) (195.442(b))**
Question Text *Does the process require participation in qualified one-call systems?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section G-1, 4.A.**
62. Question Result, ID, References **Sat, PD.DP.PROGRAM.P, 195.442(a)**
Question Text *Does the operator have a damage prevention program approved and in place?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section G-1, 4..**
63. Question Result, ID, References **Sat, PD.DP.PUBLICNOTIFY.P, 195.442(a) (195.442(c)(2))**
Question Text *Does the process include public notification requirements?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section G-1, 4.D.1**
64. Question Result, ID, References **Sat, PD.DP.EXCAVATEMARK.P, 195.442(a) (195.442(b), 195.442(c)(4), 195.442(c)(5))**
Question Text *Does the process require marking proposed excavation sites?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section G-1, 4.E.1.**
65. Question Result, ID, References **Sat, PD.DP.EXCAVATE.P, 195.442(a) (195.442(c)(6))**
Question Text *Does the process include inspection of pipelines that could be damaged by excavation activities?*
Assets Covered **O&M Review**
Result Notes **Administrative Manual Section G-1, 4.D.1.**
66. Question Result, ID, References **Sat, PD.DP.TPD.P, 195.442(a) (195.442(b), 195.442(c)(1))**

Question Text *Does the process specify how reports of Third Party Activity and names of associated contractors or excavators are input back into the mail-outs and communications with excavators along the system?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 4.D.

67. Question Result, ID, References Sat, PD.DP.TPDONECALL.P, 195.442(a) (195.442(b), 195.442(c)(3))

Question Text *Does the process specify how reports of TPD are checked against One-Call tickets?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 8.

PD.PA: Public Awareness

68. Question Result, ID, References Sat, PD.PA.ASSETS.P, 195.440(b) (API RP 1162, Section 2.7 Step 4)

Question Text *Does the program clearly identify the specific pipeline systems and facilities to be included in the program, along with the unique attributes and characteristics of each?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 2.

69. Question Result, ID, References Sat, PD.PA.AUDIENCEID.P, 195.440(d) (195.440(e), 195.440(f), API RP 1162 Section 2.2, API RP1162 Section 3)

Question Text *Does the program establish methods to 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?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 4..

70. Question Result, ID, References Sat, PD.PA.MGMTSUPPORT.P, 195.440(a) (API RP 1162 Section 2.5, API RP 1162 Section 7.1)

Question Text *Does the operator's program documentation demonstrate management support?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 1

71. Question Result, ID, References Sat, PD.PA.PROGRAM.P, 195.440(a) (195.440(h))

Question Text *Has the continuing public education (awareness) program been established as required?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1,

72. Question Result, ID, References Sat, PD.PA.MESSAGES.P, 195.440(c) (API RP 1162 Section 3, API RP 1162 Section 4, API RP 1162 Section 5)

Question Text *Does the program define the combination of messages, delivery methods, and delivery frequencies to comprehensively reach all affected stakeholder audiences in all areas where hazardous liquid or carbon dioxide is transported?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 4.B.3

73. Question Result, ID, References Sat, PD.PA.SUPPLEMENTAL.P, 195.440(c) (API RP 1162 Section 6.2)

Question Text *Were relevant factors considered to determine the need for supplemental public awareness program enhancements for each stakeholder audience along all pipeline systems, as described in API RP 1162?*

Assets Covered O&M Review

Result Notes Administrative Manual Section G-1, 10

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

Question Text *Does the program require that materials and messages be provided in other languages commonly understood by a significant number and concentration of non-English speaking populations in the operator's areas?*

Assets Covered O&M Review

Result Notes [Administrative Manual Section G-1, 10.](#)

75. Question Result, ID, References [Sat, PD.PA.EVALPLAN.P, 195.440\(i\) \(195.440\(c\), API RP 1162 Section 8, API RP 1162 Appendix E\)](#)

Question Text *Does the program include a process that specifies how program implementation and effectiveness will be periodically evaluated?*

Assets Covered [O&M Review](#)

Result Notes [Administrative Manual Section G-1, 7.](#)

PD.SN: Facilities Signage and Security

76. 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 [O&M Review](#)

Result Notes [Maintenance Manual Section D-10.](#)

77. 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 [O&M Review](#)

Result Notes [Maintenance Manual Section D-10.](#)

78. 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 [O&M Review](#)

Result Notes [Maintenance Manual Section D-2 / D-2 Exhibit S1.](#)

RPT.RR: Regulatory Reporting (Traditional)

79. Question Result, ID, References [Sat, RPT.RR.ACCIDENTREPORT.P, 195.54\(a\) \(195.50\(a\), 195.50\(b\), 195.50\(c\), 195.50\(d\), 195.50\(e\)\)](#)

Question Text *Does the process require preparation and filing of an accident report as soon as practicable but no later than 30 days after discovery of a reportable accident?*

Assets Covered [O&M Review](#)

Result Notes [Administrative Manual Section D-1, 3.1.](#)

80. Question Result, ID, References [Sat, RPT.RR.ACCIDENTREPORTSUPP.P, 195.402\(a\) \(195.402\(c\)\(2\), 195.54\(b\)\)](#)

Question Text *Does the process require preparation and filing of supplemental accident reports?*

Assets Covered [O&M Review](#)

Result Notes [Administrative Manual Section D-1, 3.2.](#)

81. Question Result, ID, References [Sat, RPT.RR.IMMEDREPORT.P, 195.402\(a\) \(195.402\(c\)\(2\), 195.52\(b\), 195.52\(c\), 195.52\(d\)\)](#)

Question Text *Are procedures in place to immediately report accidents to the National Response Center?*

Assets Covered [O&M Review](#)

Result Notes [Administrative Manual Section D-1, 4.2.](#)

82. Question Result, ID, References [Sat, RPT.RR.SRCR.P, 195.402\(a\) \(195.55\(a\), 195.55\(b\), 195.56\(a\), 195.56\(b\)\)](#)

Question Text *Are processes in place to file safety-related condition reports if the conditions of 195.55 are met?*

Assets Covered [O&M Review](#)

Result Notes [Administrative Manual Section D-1, 7.](#)

83. Question Result, ID, References [Sat, RPT.RR.OPID.P, 195.64\(a\) \(195.64\(c\), 195.64\(d\)\)](#)

Question Text *Does the process require the obtaining, and appropriate control, of Operator Identification Numbers (OPIDs), including changes in entity, acquisition/divestiture, and construction/update/uprate?*

Assets Covered O&M Review

Result Notes Admin. Manual, Section D-1.

TD.ATM: Atmospheric Corrosion

84. 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 O&M Review

Result Notes Maintenance Manual Section E-8, 1.

85. 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 O&M Review

Result Notes Maintenance Manual Section G-1.

TD.CP: External Corrosion - Cathodic Protection

86. Question Result, ID, References Sat, TD.CP.MAPRECORD.P, 195.589(a) (195.589(b)) (also presented in: TD.CPMONITOR)

Question Text *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-6, 1.3.

87. Question Result, ID, References Sat, TD.CP.DEFICIENCY.P, 195.402(c)(3) (195.573(e)) (also presented in: TD.CPMONITOR, TD.CPEXPOSED)

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

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-6, 2.8

88. Question Result, ID, References Sat, TQ.QU.CORROSIONSUPERVISE.P, 195.402(c) (195.555, 195.505(h)) (also presented in: TQ.QU)

Question Text *Are supervisors required to maintain a thorough knowledge of corrosion control procedures they are responsible for, and is it verified?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-6, 1.5.

89. Question Result, ID, References NA, TD.CP.NEWOPERATE.P, 195.402(c)(3) (195.563(a), 195.563(c), 195.563(d))

Question Text *Does the process specify when cathodic protection must be operational on constructed, relocated, replaced, or otherwise changed pipelines?*

Assets Covered O&M Review

Result Notes McChord pipeline was constructed in 1957 and not converted..

90. Question Result, ID, References Sat, TD.CP.UNPROTECT.P, 195.402(c)(3) (195.563(e), 195.573(b)(1), 195.573(b)(2))

Question Text *Does the process give sufficient direction for the monitoring of external corrosion on buried pipelines that are not protected by cathodic protection?*

Assets Covered O&M Review

Result Notes McChord pipeline does not have any bare/unprotected pipe.

91. Question Result, ID, References Sat, TD.CP.ISOLATE.P, 195.402(c)(3) (195.575(a), 195.575(b), 195.575(c), 195.575(d))

Question Text *Does the process give adequate guidance for electrically isolating 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?*

TD.CPMONITOR: External Corrosion - Cathodic Protection Monitoring

92. Question Result, ID, References **Sat, TD.CP.MAPRECORD.P, 195.589(a) (195.589(b))** (also presented in: TD.CP)
Question Text *Does the process require maps and/or records of cathodic protection systems that have been installed on pipelines constructed, relocated, replaced, converted to hazardous liquid service, or otherwise changed?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, 1.3.**
93. Question Result, ID, References **Sat, TD.CP.DEFICIENCY.P, 195.402(c)(3) (195.573(e))** (also presented in: TD.CP, TD.CPEXPOSED)
Question Text *Does the process require correction of any identified deficiencies in corrosion control?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, 2.8**
94. Question Result, ID, References **Sat, TD.CPMONITOR.TESTLEADINSTALL.P, 195.402(c) (195.567(b))**
Question Text *Does the process provide adequate instructions for the installation of test leads?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, 2.6.**
95. Question Result, ID, References **Sat, TD.CPMONITOR.TESTLEADMAINT.P, 195.402(c)(3) (195.567(c))**
Question Text *Does the process require that test lead wires must be properly maintained?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, Exhibit 1 / D-1, Exhibit A.**
96. Question Result, ID, References **Sat, TD.CPMONITOR.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 **O&M Review**
Result Notes **Maintenance Manual Section D-6, 2.1.**
97. Question Result, ID, References **Sat, TD.CPMONITOR.TEST.P, 195.402(c)(3) (195.573(a)(1))**
Question Text *Does the process adequately describe how to monitor CP that has been applied to pipelines?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, 3 / D-1, Exhibit A.**
98. Question Result, ID, References **Sat, TD.CPMONITOR.CURRENTTEST.P, 195.402(c)(3) (195.573(c))**
Question Text *Does the process give sufficient details for making electrical checks of rectifiers, interference bonds, diodes, and reverse current switches?*
Assets Covered **O&M Review**
Result Notes **Maintenance Manual Section D-6, 3.4 / 3.5.**
99. 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 **O&M Review**
Result Notes **Maintenance Manual Section D-6, 3.7.**

TD.COAT: External Corrosion - Coatings

100. Question Result, ID, References **NA, TD.COAT.NEWPIPE.P, 195.402(c)(3) (195.557(a), 195.559, 195.401(c))**
 Question Text *Does the process require coatings for pipelines constructed, relocated, replaced, or otherwise changed after the applicable date in 195.401(c) to meet the requirements of 195.559?*
 Assets Covered **O&M Review**
 Result Notes **McChord Pipeline was constructed in 1957 and not converted.**
101. Question Result, ID, References **Sat, TD.COAT.NEWPIPEINSPECT.P, 195.402(c)(3) (195.561(a), 195.561(b))**
 Question Text *Does the process require that the coating be inspected on new pipelines just prior to it being lowered into the pipe trench?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section E-8, 9.**

TD.CPEXPOSED: External Corrosion - Exposed Pipe

102. Question Result, ID, References **Sat, TD.CP.DEFICIENCY.P, 195.402(c)(3) (195.573(e))** (also presented in: TD.CP, TD.CPMONITOR)
 Question Text *Does the process require correction of any identified deficiencies in corrosion control?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section D-6, 2.8**
103. Question Result, ID, References **Sat, TD.CPEXPOSED.EXTCORRODEEVAL.P, 195.402(c)(3) (195.587)**
 Question Text *Does the process provide sufficient direction for personnel to evaluate the remaining strength of externally corroded pipe?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section E-2, 10**
104. Question Result, ID, References **Sat, TD.CPEXPOSED.EXTCORRODEREPAIR.P, 195.402(c)(3) (195.585(a), 195.585(b))**
 Question Text *Does the process give sufficient guidance for personnel to repair or replace pipe that is externally corroded to an extent that there is not sufficient remaining strength in the pipe wall?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section E-2, 10**

TD.ICP: Internal Corrosion - Preventive Measures

105. Question Result, ID, References **Sat, TD.ICP.INVESTREMED.P, 195.402(c)(3) (195.579(a))**
 Question Text *Does the process give adequate guidance for investigating and remediating the corrosive effects of hazardous liquids or carbon dioxide being transported?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section D-6, 1.4.**
106. Question Result, ID, References **Sat, TD.ICP.INHIBITOR.P, 195.402(c)(3) (195.579(b)(1), 195.579(b)(2), 195.579(b)(3))**
 Question Text *Does the process give adequate direction for the utilization of corrosion inhibitors?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section D-6, 1.4.**
107. Question Result, ID, References **Sat, TD.ICP.EXAMINE.P, 195.402(c)(3) (195.579(a), 195.579(c))**
 Question Text *Does the process direct personnel to examine removed pipe for evidence of internal corrosion?*
 Assets Covered **O&M Review**
 Result Notes **Maintenance Manual Section G-1, 3.1 / 3.2.**
108. Question Result, ID, References **Sat, TD.ICP.EVALUATE.P, 195.402(c)(3) (195.587)**

Question Text *Does the process give sufficient guidance for personnel to evaluate the remaining strength of pipe that has been internally corroded?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section E-2, 10.

TQ.QU: Qualification of Personnel - Specific Requirements

109. Question Result, ID, References Sat, TQ.QU.CORROSIONSUPERVISE.P, 195.402(c) (195.555, 195.505(h)) (also presented in: TD.CP)

Question Text *Are supervisors required to maintain a thorough knowledge of corrosion control procedures they are responsible for, and is it verified?*

Assets Covered O&M Review

Result Notes Maintenance Manual Section D-6, 1.5.

TQ.TRERP: Training of Personnel - Emergency Response

110. Question Result, ID, References Sat, TQ.TRERP.ERCONDITIONS.P, 195.403(a)(3)

Question Text *Are conditions that are likely to cause emergencies, their consequences, and appropriate corrective action identified in the ER training?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-1, 3.3.

111. Question Result, ID, References Sat, TQ.TRERP.ERFIREPROT.P, 195.403(a)(5)

Question Text *Are the potential causes, types, sizes, and consequences of fire and appropriate use of portable fire extinguishers and other on-site fire control equipment covered in the ER training?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-1, 4.3.3.

112. Question Result, ID, References Sat, TQ.TRERP.ERHAZTRAINING.P, 195.403(a)(2)

Question Text *Are the characteristics and hazards of the hazardous liquids or carbon dioxide transported covered in the ER training?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-1, 1.3 / 4.3.1.

113. Question Result, ID, References Sat, TQ.TRERP.ERRELEASECONTROL.P, 195.403(a)(4)

Question Text *Are the steps necessary to control any accidental release of hazardous liquid to minimize the potential for fire, explosion, toxicity, or environmental damage identified in the ER training?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-1, 3.3. / 4.3.1

114. Question Result, ID, References Sat, TQ.TRERP.ERTRAINING.P, 195.403(a)(1)

Question Text *Does emergency response training cover the emergency procedures established under 195.402?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-1, 1.1.

115. Question Result, ID, References Sat, TQ.TRERP.ERTRAININGREVIEW.P, 195.403(b)

Question Text *Does the process require review of emergency response personnel performance at the required frequency?*

Assets Covered O&M Review

Result Notes Administrative Manual Section B-4, 3.

116. Question Result, ID, References Sat, TQ.TRERP.ERTRAININGSUPERVISE.P, 195.403(c)

Question Text *Does the process require supervisors be trained on emergency response procedures for which they are responsible?*

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.