

# Inspection Output (IOR)

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## Inspection Information

Inspection Name	Air Liquide Standard 2018	Operator(s)	AIR LIQUIDE LARGE INDUSTRIES U.S. LP (842)	Plan Submitted	07/16/2018
Status	PLANNED	Lead	Derek Norwood	Plan Approval	07/23/2018 by Joe Subits
Start Year	2018	Observer(s)	Denise Crawford	All Activity Start	07/23/2018
System Type	GT	Supervisor	Joe Subits	All Activity End	07/27/2018
Protocol Set ID	GT.2017.01	Director	Sean Mayo	Inspection Submitted	--
				Inspection Approval	--

## Inspection Summary

This inspection included records review of leak surveys, cathodic protection surveys, CP isolation testing, rectifier inspections, valve maintenance inspections, report submitting to PHMSA and the UTC, and equipment calibration. This inspection includes four probable violations and one area of concern.

### Probable Violations

- WAC 480-93-200(10)(a)
- WAC 480-93-200(10)(b)
- WAC 480-93-180(2)
- 49 CFR Part 191.29(b)

### Area of Concern

- WAC 480-93-188(5)

## Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Total Inspected	Required % Complete
1.	86234 (1850)	Air Liquide	unit	86234	Compressor Stations Storage Fields Bottle/Pipe - Holders Vault Service Line Offshore GOM OCS Cast or Ductile Iron Copper Pipe Aluminum pipe Plastic pipe AMAOP Abandoned	231	231	231	100.0%

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

## Plans

# Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent	Notes
1. 86234 (1850)	n/a	EP, MO.GOABNORMAL, MO.GOCLASS, MO.GM, MO.GOMAOP, MO.GOODOR, MO.GO, MO.GMOPP, MO.RW, DC.CO, DC.WELDINSP, DC.WELDERQUAL, DC.WELDPROCEDURE, DC.DP, DC.DPCOPP, DC.DPC, DC.MO, DC.MA, DC.PT, DC.PTLOWPRESS, DC.TQ, TD.ATM, TD.CP, TD.COAT, TD.CPMONITOR, TD.CPEXPOSED, TD.ICCG, TD.ICP, TD.SCC, RPT.NR, RPT.RR	R, O		Detail
2. 86234 (1850)	n/a	TQ.PROT9	P, R, O, S		Detail
3. 86234 (1850)	n/a	PD	P, R		Detail

## Plan Implementations

# Activity Name	SMART Act#	Start Date	End Date	Focus Directives	Involved Groups/Subgroups	Assets	Qst Type(s)	Planned	Required	Total Inspected	Required % Complete
1 Records	--	07/24/2018	07/27/2018	n/a	AR, CR, DC, EP, FS, IM, MO, PD, RPT, SRN, TD, GENERIC, TQ.OQ, TQ.QU, TQ.QUIM, TQ.QUOMCONST, TQ.TR	all assets	R	136	136	136	100.0%
2 Field	--	07/24/2018	07/27/2018	n/a	AR, CR, DC, EP, FS, IM, MO, PD, RPT, SRN, TD, GENERIC, TQ.OQ, TQ.QU, TQ.QUIM, TQ.QUOMCONST, TQ.TR	all assets	O	72	72	72	100.0%
3 OQ Protocol 9	--	07/24/2018	07/27/2018	n/a	TQ.PROT9	all assets	all types	5	5	5	100.0%
4 Public Awareness	--	07/23/2018	07/24/2018	n/a	PD	all assets	P, R	37	37	37	100.0%

a. Since questions may be implemented in multiple activities, but answered only once, questions may be represented more than once in this table.

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

## Forms

This inspection has no Form data entry.

## Results (all values, 231 results)

245 (instead of 231) results are listed due to re-presentation of questions in more than one sub-group.

### DC.CO: Construction

- Question Result, ID, References **NA, DC.CO.CASING.R, 192.323(a) (192.323(b), 192.323(c), 192.323(d), 192.303)**

Question Text *Are railroad or highway casings installed as designed and specified, and in accordance with 192.323?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

2. Question Result, ID, References NA, DC.CO.INSPECT.R, 192.305

Question Text *Do records indicate the pipeline is being inspected to ensure it is constructed in accordance with Part 192?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

3. Question Result, ID, References NA, DC.CO.INSPECT.O, 192.305

Question Text *Is the pipeline being inspected to ensure it is constructed in accordance with Part 192?*

Assets Covered 86234 (1850)

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

4. Question Result, ID, References NA, DC.CO.INSPECTVISUAL.R, 192.307

Question Text *Do records indicate that pipe and other components were visually inspected prior to installation?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

5. Question Result, ID, References NA, DC.CO.INSPECTVISUAL.O, 192.307

Question Text *Are pipe lengths and other pipeline components visually inspected to ensure they are not damaged?*

Assets Covered 86234 (1850)

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

6. Question Result, ID, References NA, DC.CO.REPAIR.R, 192.309(a) (192.309(b), 192.309(c), 192.309(d), 192.309(e))

Question Text *Do records demonstrate that repairs to steel pipe are being made in accordance with 192.309?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

7. Question Result, ID, References NA, DC.CO.REPAIR.O, 192.309(a) (192.309(b), 192.309(c), 192.309(d), 192.309(e))

Question Text *Are repairs to steel pipe made in accordance with 192.309?*

Assets Covered 86234 (1850)

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

8. Question Result, ID, References NA, DC.CO.FIELDBEND.R, 192.313(a) (192.313(b), 192.313(c))

Question Text *Do records indicate that field bends are made in accordance with 192.313?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

9. Question Result, ID, References NA, DC.CO.FIELDBEND.O, 192.313(a) (192.313(b), 192.313(c))

Question Text *Are field bends made in accordance with 192.313(a)?*

Assets Covered 86234 (1850)

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

10. Question Result, ID, References NA, DC.CO.WRINKLEBEND.R, 192.315(a) (192.315(b))

Question Text *Do records indicate that wrinkle bends are made in accordance with 192.315?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

11. Question Result, ID, References NA, DC.CO.WRINKLEBEND.O, 192.315(a) (192.315(b))

Question Text *Are wrinkle bends made in accordance with 192.315?*

Assets Covered 86234 (1850)

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

12. Question Result, ID, References NA, DC.CO.HAZARD.R, 192.317(a) (192.317(b), 192.317(c))

Question Text *Do records demonstrate that exposed piping being installed is protected from hazards?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

13. Question Result, ID, References NA, DC.CO.INSTALL.O, 192.319(a) (192.319(b))

Question Text *When pipe is placed in the ditch, is it installed so as to fit the ditch, minimize stresses, and protect the pipe coating from damage?*

Assets Covered 86234 (1850)

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

14. Question Result, ID, References NA, DC.CO.CLEAR.R, 192.325(a) (192.325(b), 192.325(c))

Question Text *Do records indicate pipe is installed with clearances in accordance with 192.325, and (if plastic) installed as to prevent heat damage to the pipe?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

15. Question Result, ID, References NA, DC.CO.CLEAR.O, 192.325(a) (192.325(b), 192.325(c))

Question Text *Is pipe installed with clearances in accordance with 192.325, and (if plastic) installed as to prevent heat damage to the pipe?*

Assets Covered 86234 (1850)

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

16. Question Result, ID, References NA, DC.CO.COVER.R, 192.327(a) (192.327(b), 192.327(c), 192.327(d), 192.327(e))

Question Text *Is onshore piping minimum cover as specified in 192.327?*

Assets Covered 86234 (1850)

Result Notes No pipe installed during this inspection period

17. Question Result, ID, References NA, DC.CO.COVER.O, 192.327(a) (192.327(b), 192.327(c), 192.327(d), 192.327(e))

Question Text *Is onshore piping minimum cover as specified in 192.327?*

Assets Covered 86234 (1850)

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

## DC.WELDINS: Construction Weld Inspection

18. Question Result, ID, References NA, DC.WELDINS.WELDVISUALQUAL.R, 192.241(a) (192.241(b), 192.241(c), 192.807(a), 192.807(b))

Question Text *Do records indicate that individuals who perform visual inspection of welding are qualified by appropriate training and experience, as required by 192.241(a)?*

Assets Covered 86234 (1850)

Result Notes No welding performed during this inspection period

19. Question Result, ID, References NA, DC.WELDINS.WELDVISUALQUAL.O, 192.241(a) (192.241(b), 192.241(c), 192.807(b))

Question Text *Are individuals who perform visual inspection of welding qualified?*

Assets Covered 86234 (1850)

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

20. Question Result, ID, References NA, DC.WELDINS.WELDNDR, 192.243(a) (192.243(b)(1), 192.243(b)(2), 192.243(c), 192.243(a) Ref to .243(a) seems erroneous here and for subsequent O version.)

Question Text *Do records indicate that NDT implementation is adequate?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

21. Question Result, ID, References NA, DC.WELDINSP.WELDNDT.O, 192.243(a) (192.243(b)(1), 192.243(b)(2), 192.243(c), 192.243(a))  
Question Text *Are NDT procedures adequate?*  
Assets Covered 86234 (1850)  
Result Notes No such activity/condition was observed during the inspection.
22. Question Result, ID, References NA, DC.WELDINSP.WELDREPAIR.R, 192.245(a) (192.245(b), 192.245(c))  
Question Text *Do records indicate that unacceptable welds are removed and/or repaired?*  
Assets Covered 86234 (1850)  
Result Notes No such event occurred, or condition existed, in the scope of inspection review.
23. Question Result, ID, References NA, DC.WELDINSP.WELDREPAIR.O, 192.245(a) (192.245(b), 192.245(c))  
Question Text *Are unacceptable welds removed and/or repaired?*  
Assets Covered 86234 (1850)  
Result Notes No such activity/condition was observed during the inspection.

## DC.WELDERQUAL: Construction Welder Qualification

24. Question Result, ID, References NA, DC.WELDERQUAL.WELDERQUAL.R, 192.227(a) (192.227(b))  
Question Text *Do records indicate that welders are qualified in accordance with 192.227(a)?*  
Assets Covered 86234 (1850)  
Result Notes No welding was performed during this inspection period
25. Question Result, ID, References NA, DC.WELDERQUAL.WELDERQUAL.O, 192.227(a) (192.227(b))  
Question Text *Do welders demonstrate adequate skills and knowledge?*  
Assets Covered 86234 (1850)  
Result Notes No such activity/condition was observed during the inspection.
26. Question Result, ID, References NA, DC.WELDERQUAL.WELDERLIMIT229.R, 192.229(a) (192.229(b), 192.229(c), 192.229(d))  
Question Text *Do records demonstrate that welders were in compliance with the limits of 192.229?*  
Assets Covered 86234 (1850)  
Result Notes No welding was performed during this inspection period

## DC.WELDPROCEDURE: Construction Welding Procedures

27. Question Result, ID, References NA, DC.WELDPROCEDURE.WELD.R, 192.225(a) (192.225(b))  
Question Text *Do records indicate weld procedures are being qualified in accordance with 192.225?*  
Assets Covered 86234 (1850)  
Result Notes No welding was performed during this inspection period
28. Question Result, ID, References NA, DC.WELDPROCEDURE.WELD.O, 192.225(a) (192.225(b))  
Question Text *Are weld procedures being qualified in accordance with 192.225?*  
Assets Covered 86234 (1850)  
Result Notes No such activity/condition was observed during the inspection.
29. Question Result, ID, References NA, DC.WELDPROCEDURE.WELDWEATHER.R, 192.231  
Question Text *Do records indicate welding operations are protected from certain weather conditions?*  
Assets Covered 86234 (1850)  
Result Notes No welding was performed during this inspection period

30. Question Result, ID, References **NA, DC.WELDPROCEDURE.WELDWEATHER.O, 192.231**  
 Question Text *Are welding operations are protected from certain weather conditions?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
31. Question Result, ID, References **NA, DC.WELDPROCEDURE.MITERJOINT.R, 192.233(a) (192.233(b), 192.233(c))**  
 Question Text *Do records indicate that certain miter joints are removed?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
32. Question Result, ID, References **NA, DC.WELDPROCEDURE.WELDPREP.R, 192.235**  
 Question Text *Do records indicate welding preparations made in accordance with 192.235?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No welding was performed during this inspection period**
33. Question Result, ID, References **NA, DC.WELDPROCEDURE.WELDPREP.O, 192.235**  
 Question Text *Are welding preparations made in accordance with 192.235?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**

## DC.DP: Design of Pipe

34. Question Result, ID, References **NA, DC.DP.DESIGNPRESS105A.R, 192.105(a) (192.105(b), 192.107(a), 192.107(b), 192.109(a), 192.109(b), 192.111(a), 192.111(b), 192.111(c), 192.111(d), 192.113, 192.115)**  
 Question Text *Do design records and drawings indicate the design pressure of steel pipe is established in accordance with 192.105(a)?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe installed during this inspection period**

## DC.DPCOPP: Design of Pipe - Overpressure Protection

35. Question Result, ID, References **Sat, DC.DPCOPP.OVERPRESSURE.R, 192.195(a) (192.199(a), 192.199(b), 192.199(c), 192.199(d), 192.199(e), 192.199(f), 192.199(g), 192.199(h), 192.201(a), 192.201(b), 192.201(c))**  
 Question Text *Do records indicate that the pipeline has pressure relieving or pressure limiting devices that are required of 192.195(a), and that they meet the requirements of 192.199 and 192.201?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Maximum compressor output is 280 psig, MAOP of pipeline is 300 psig**
36. Question Result, ID, References **NA, DC.DPCOPP.OVERPRESSURE.O, 192.195(a) (192.199(a), 192.199(b), 192.199(c), 192.199(d), 192.199(e), 192.199(f), 192.199(g), 192.199(h), 192.201(a), 192.201(b), 192.201(c))**  
 Question Text *Are required pressure relieving or pressure limiting devices being installed, and do they meet the requirements of 192.199 and 192.201?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
37. Question Result, ID, References **NA, DC.DPCOPP.PRESSLIMIT.R, 192.199(a) (192.199(b), 192.199(c), 192.199(d), 192.199(e), 192.199(f), 192.199(g), 192.199(h))**  
 Question Text *Do records indicate that pressure relieving or pressure limiting devices meet the requirements of 192.199?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
38. Question Result, ID, References **NA, DC.DPCOPP.PRESSLIMIT.O, 192.199(a) (192.199(b), 192.199(c), 192.199(d), 192.199(e), 192.199(f), 192.199(g), 192.199(h))**  
 Question Text *Do pressure relieving or pressure limiting devices meet the requirements of 192.199?*  
 Assets Covered **86234 (1850)**

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

39. Question Result, ID, References NA, DC.DPCOPP.PRESSLIMITCAP.R, 192.201(a) (192.201(b), 192.201(c))  
Question Text *Do records indicate that pressure relief or pressure limiting stations being installed comply with 192.201?*  
Assets Covered 86234 (1850)  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
40. Question Result, ID, References NA, DC.DPCOPP.PRESSLIMITCAP.O, 192.201(a) (192.201(b), 192.201(c))  
Question Text *Do pressure relief or pressure limiting stations comply with the requirements of 192.201?*  
Assets Covered 86234 (1850)  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

## DC.DPC: Design of Pipe Components

41. Question Result, ID, References NA, DC.DPC.METALCOMPONENT.R, 192.144(a) (192.144(b))  
Question Text *Do records indicate that certain metallic components are qualified for use in accordance with 192.144?*  
Assets Covered 86234 (1850)  
Result Notes No such event occurred, or condition existed, in the scope of inspection review.
42. Question Result, ID, References NA, DC.DPC.VALVE.R, 192.145(a) (192.145(b), 192.145(c), 192.145(d))  
Question Text *Do records indicate valves comply with the requirements of 192.145?*  
Assets Covered 86234 (1850)  
Result Notes No valves installed during this inspection period
43. Question Result, ID, References Sat, DC.DPC.VALVE.O, 192.141 (192.145(a), 192.145(b), 192.145(c), 192.145(d))  
Question Text *Do valves comply with the requirements of 192.145?*  
Assets Covered 86234 (1850)
44. Question Result, ID, References NA, DC.DPC.FLANGE.R, 192.147(a) (192.147(b), 192.147(c))  
Question Text *Do records indicate flanges and flange accessories meet the requirements of 192.147?*  
Assets Covered 86234 (1850)  
Result Notes No flanges installed during this inspection period
45. Question Result, ID, References Sat, DC.DPC.FLANGE.O, 192.141 (192.147(a), 192.147(b), 192.147(c))  
Question Text *Do flanges and flange accessories meet the requirements of 192.147?*  
Assets Covered 86234 (1850)
46. Question Result, ID, References NA, DC.DPC.STANDARDFITTING.R, 192.149(a) (192.149(b))  
Question Text *Do records indicate standard fittings are in compliance with 192.149?*  
Assets Covered 86234 (1850)  
Result Notes No fittings installed during this inspection period
47. Question Result, ID, References NA, DC.DPC.STANDARDFITTING.O, 192.149(a) (192.149(b))  
Question Text *Are standard fittings are in compliance with 192.149?*  
Assets Covered 86234 (1850)  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
48. Question Result, ID, References NA, DC.DPC.ILIPASS.R, 192.150(a)  
Question Text *Do records indicate that certain transmission pipeline components are designed and constructed to accommodate the passage of instrumented internal inspection devices?*  
Assets Covered 86234 (1850)

- Result Notes **No components installed during this inspection period**
49. Question Result, ID, References **NA, DC.DPC.ILIPASS.O, 192.141 (192.150(a))**  
 Question Text *Are certain transmission pipeline components designed and constructed to accommodate the passage of instrumented internal inspection devices?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such requirement existed in the scope of inspection review.**
50. Question Result, ID, References **NA, DC.DPC.TAP.R, 192.151 (192.151(a), 192.151(b), 192.151(c).)**  
 Question Text *Do records indicate that tapping fittings and taps comply with the requirements of 192.151?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No tapping was performed during this inspection period**
51. Question Result, ID, References **NA, DC.DPC.TAP.O, 192.141 (192.151(a), 192.151(b), 192.151(c).)**  
 Question Text *Do tapping fittings and taps comply with the requirements of 192.151?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
52. Question Result, ID, References **NA, DC.DPC.WELDFABRICATE.R, 192.153(a) (192.153(b), 192.153(c), 192.153(d))**  
 Question Text *Do records indicate that components fabricated by welding are in accordance with 192.153?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No components were fabricated by welding during this inspection period**
53. Question Result, ID, References **NA, DC.DPC.WELDFABRICATE.O, 192.141 (192.153(a), 192.153(b), 192.153(c), 192.153(d))**  
 Question Text *Are components fabricated by welding in accordance with 192.153?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
54. Question Result, ID, References **NA, DC.DPC.FLEXIBLE.R, 192.159**  
 Question Text *Do records indicate that pipeline flexibility is designed in accordance with 192.159?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe installed during this inspection period**
55. Question Result, ID, References **NA, DC.DPC.SUPPORT.R, 192.161(a) (192.161(b), 192.161(c), 192.161(d), 192.161(e), 192.161(f))**  
 Question Text *Do records indicate piping and associated equipment have sufficient anchors or supports to prevent undue strain on connected equipment, resist longitudinal forces, and prevent or dampen excessive vibration?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe installed during this inspection period**
56. Question Result, ID, References **NA, DC.DPC.SUPPORT.O, 192.141 (192.161(a), 192.161(b), 192.161(c), 192.161(d), 192.161(e), 192.161(f))**  
 Question Text *Are anchors and supports being installed as required by 192.161?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
57. Question Result, ID, References **Sat, DC.DPC.VALVESPACE.R, 192.179(a) (192.179(a)(1), 192.179(a)(2), 192.179(a)(3), 192.179(a)(4), 192.179(b), 192.179(c), 192.179(d))**  
 Question Text *Do records indicate that transmission line valve spacing is in accordance with 192.179(a)?*  
 Assets Covered **86234 (1850)**
58. Question Result, ID, References **NA, DC.DPC.VALVESPACE.O, 192.141 (192.179(a), 192.179(b), 192.179(c), 192.179(d))**  
 Question Text *Are transmission line valves being installed as required of 192.179?*  
 Assets Covered **86234 (1850)**



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

59. Question Result, ID, References NA, DC.DPC.INSTRUMENTPIPE.R, 192.203(a) (192.203(b))

Question Text *As applicable to the project, do records indicate that instrument, control, and sampling pipe and components are designed in accordance with 192.203?*

Assets Covered 86234 (1850)

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

60. Question Result, ID, References NA, DC.DPC.INSTRUMENTPIPE.O, 192.141 (192.203(a), 192.203(b))

Question Text *As applicable to the project, are instrument, control, and sampling pipe and components installed as designed and in accordance with 192.203?*

Assets Covered 86234 (1850)

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

61. Question Result, ID, References NA, DC.DPC.INTCORRODE.R, 192.476(a) (192.476(b), 192.476(c))

Question Text *Do records demonstrate the transmission line project has features incorporated into its design and construction to reduce the risk of internal corrosion, as required of 192.476?*

Assets Covered 86234 (1850)

Result Notes No pipe installed during this inspection period

62. Question Result, ID, References NA, DC.DPC.INTCORRODE.O, 192.476(a) (192.476(b), 192.476(c))

Question Text *Does the transmission project's design and construction comply with 192.476?*

Assets Covered 86234 (1850)

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

## DC.MO: Maintenance and Operations

63. Question Result, ID, References NA, DC.MO.ICEXAMINE.R, 192.491(c) (192.475(a), 192.475(b), 192.475(c))

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

Assets Covered 86234 (1850)

Result Notes No pipe removed during this inspection period

64. Question Result, ID, References NA, DC.MO.ICEXAMINE.O, 192.475(a) (192.475(b), 192.475(c))

Question Text *Is examination of removed pipe conducted to determine any evidence of internal corrosion?*

Assets Covered 86234 (1850)

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

65. Question Result, ID, References Sat, DC.MO.MAOPLIMIT.R, 192.605(b)(5)

Question Text *Do records indicate that the pressure limitations on the pipeline are not exceeded?*

Assets Covered 86234 (1850)

Result Notes Reviewed pressure logs for the last 30 days, highest pressure seen was ~199 psig

66. Question Result, ID, References NA, DC.MO.MAOPLIMIT.O, 192.605(b)(5)

Question Text *During startup or shut-in, is it assured that the pressure limitations on the pipeline were not exceeded?*

Assets Covered 86234 (1850)

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

67. Question Result, ID, References NA, DC.MO.IGNITION.O, 192.751(a) (192.751(b), 192.751(c))

Question Text *If applicable to the project, were processes followed where there exists the potential for accidental ignition?*

Assets Covered 86234 (1850)

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

68. Question Result, ID, References **NA, DC.MO.HOTTAP.R, 192.627**  
 Question Text *Do records indicate that hot taps are performed in accordance with hot tap procedures?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No hot taps were performed during this inspection period**
69. Question Result, ID, References **NA, DC.MO.HOTTAP.O, 192.627**  
 Question Text *Are hot taps are performed in accordance with hot tap procedures?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
70. Question Result, ID, References **Sat, DC.MO.SAFETY.R, 192.605(b) (192.605(b)(9))**  
 Question Text *Do records indicate that pipeline maintenance construction and testing activities are performed in a safe manner?*  
 Assets Covered **86234 (1850)**
71. Question Result, ID, References **NA, DC.MO.SAFETY.O, 192.605(b) (192.605(b)(9))**  
 Question Text *Are pipeline maintenance construction and testing activities made in a safe manner?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**

## DC.MA: Materials

72. Question Result, ID, References **NA, DC.MA.NEWPIPE.R, 192.55(a) (192.55(b), 192.55(c), 192.55(d), 192.55(e))**  
 Question Text *Do records indicate new steel pipe is qualified in accordance with 192.55(a)?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe installed during this inspection period**
73. Question Result, ID, References **NA, DC.MA.NEWPIPE.O, 192.55(a) (192.55(b), 192.55(c), 192.55(d), 192.55(e))**  
 Question Text *Is new steel pipe observed to be qualified in accordance with 192.55(a)?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
74. Question Result, ID, References **NA, DC.MA.MARKING.R, 192.63(a) (192.63(b), 192.63(c), 192.63(d))**  
 Question Text *Do records indicate that pipe, valves, and fittings were marked as required?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe installed during this inspection period**
75. Question Result, ID, References **Sat, DC.MA.MARKING.O, 192.63(a) (192.63(b), 192.63(c), 192.63(d))**  
 Question Text *Are pipe, valves, and fittings properly marked for identification?*  
 Assets Covered **86234 (1850)**
76. Question Result, ID, References **NA, DC.MA.TRANSPORT.R, 192.65(a)**  
 Question Text *Do records indicate that railroad transportation for certain pipe was in accordance with API RP 5L1?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pipe was transported by railroad during this inspection period**
77. Question Result, ID, References **NA, DC.MA.TRANSPORT.O, 192.65(a)**  
 Question Text *Was/is pipe loaded and handled in accordance with API RP 5L1?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**

## DC.PT: Pressure Testing

78. Question Result, ID, References **NA, DC.PT.PRESSTEST.R, 192.503(a) (192.503(b), 192.503(c), 192.503(d))**  
Question Text *Do records indicate that pressure testing is conducted in accordance with 192.503?*  
Assets Covered **86234 (1850)**  
Result Notes **No pressure testing conducted during this inspection period**
79. Question Result, ID, References **NA, DC.PT.PRESSTEST.O, 192.503(a) (192.503(b), 192.503(c), 192.503(d))**  
Question Text *Is pressure testing conducted in accordance with 192.503?*  
Assets Covered **86234 (1850)**  
Result Notes **No such activity/condition was observed during the inspection.**
80. Question Result, ID, References **NA, DC.PT.PRESSTESTHIGHSTRESS.R, 192.517(a) (192.505(a), 192.505(b), 192.505(c), 192.505(d), 192.505(e))**  
Question Text *Is pressure testing conducted in accordance with 192.505?*  
Assets Covered **86234 (1850)**  
Result Notes **No pressure testing was conducted during this inspection period**
81. Question Result, ID, References **NA, DC.PT.PRESSTESTHIGHSTRESS.O, 192.505(a) (192.505(b), 192.505(c), 192.505(d), 192.505(e))**  
Question Text *Is pressure testing conducted in accordance with 192.505?*  
Assets Covered **86234 (1850)**  
Result Notes **No such activity/condition was observed during the inspection.**
82. Question Result, ID, References **NA, DC.PT.PRESSTESTENVIRON.R, 192.517(a) (192.515(a), 192.515(b))** (also presented in: DC.PTLOWPRESS)  
Question Text *Do records indicate that pressure testing and medium disposal is conducted in accordance with 192.515?*  
Assets Covered **86234 (1850)**  
Result Notes **No pressure testing was conducted during this inspection period**
83. Question Result, ID, References **NA, DC.PT.PRESSTESTENVIRON.O, 192.515(a) (192.515(b))** (also presented in: DC.PTLOWPRESS)  
Question Text *Are pressure testing and medium disposal conducted in accordance with 192.515?*  
Assets Covered **86234 (1850)**  
Result Notes **No such activity/condition was observed during the inspection.**
84. Question Result, ID, References **NA, DC.PT.PRESSTESTRECORD.R, 192.517(a)** (also presented in: DC.PTLOWPRESS)  
Question Text *As applicable to the project, verify that test records are being made and contain information required by 192.517(a).*  
Assets Covered **86234 (1850)**  
Result Notes **No pressure testing was conducted during this inspection period**

## DC.PTLOWPRESS: Pressure Testing - Low Pressure

85. Question Result, ID, References **Sat, DC.PTLOWPRESS.PRESSTESTLOWSTRESS.R, 192.517(a) (192.507(a), 192.507(b), 192.507(c))**  
Question Text *Do records indicate that pressure testing is conducted in accordance with 192.507?*  
Assets Covered **86234 (1850)**
86. Question Result, ID, References **NA, DC.PTLOWPRESS.PRESSTESTLOWSTRESS.O, 192.507(a) (192.507(b), 192.507(c))**  
Question Text *Is pressure testing conducted in accordance with 192.507?*  
Assets Covered **86234 (1850)**  
Result Notes **No such activity/condition was observed during the inspection.**

87. Question Result, ID, References **NA, DC.PTLOWPRESS.PRESSTEST100PSIG.R, 192.517(a) (192.509(a), 192.509(b))**  
 Question Text *Do records indicate that pressure testing is conducted in accordance with 192.509(a)?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pressure testing was conducted during this inspection period**
88. Question Result, ID, References **NA, DC.PTLOWPRESS.PRESSTEST100PSIG.O, 192.509(a) (192.509(b))**  
 Question Text *Is pressure testing conducted in accordance with 192.509(a)?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
89. Question Result, ID, References **NA, DC.PT.PRESSTESTENVIRON.R, 192.517(a) (192.515(a), 192.515(b))** (also presented in: DC.PT)  
 Question Text *Do records indicate that pressure testing and medium disposal is conducted in accordance with 192.515?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pressure testing was conducted during this inspection period**
90. Question Result, ID, References **NA, DC.PT.PRESSTESTENVIRON.O, 192.515(a) (192.515(b))** (also presented in: DC.PT)  
 Question Text *Are pressure testing and medium disposal conducted in accordance with 192.515?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
91. Question Result, ID, References **NA, DC.PT.PRESSTESTRECORD.R, 192.517(a)** (also presented in: DC.PT)  
 Question Text *As applicable to the project, verify that test records are being made and contain information required by 192.517(a).*  
 Assets Covered **86234 (1850)**  
 Result Notes **No pressure testing was conducted during this inspection period**

## DC.TQ: Training and Qualification

92. Question Result, ID, References **Sat, DC.TQ.ABNORMAL.R, 192.807(a) (192.803)**  
 Question Text *Do records show evaluation of qualified individuals for recognition and reaction to AOCs?*  
 Assets Covered **86234 (1850)**
93. Question Result, ID, References **Sat, DC.TQ.OQCONTRACTOR.R, 192.807(a) (Operators OQ program manual)**  
 Question Text *Are qualification records maintained for contractor personnel?*  
 Assets Covered **86234 (1850)**
94. Question Result, ID, References **Sat, DC.TQ.OQCONTRACTOR.O, 192.805(b) (Operators OQ program manual)**  
 Question Text *Do selected contractor individuals performing covered tasks demonstrate adequate skills and knowledge?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Mike Wendell performed CP readings, casing reads and rectifier inspection. He demonstrated adequate skills and knowledge**
95. Question Result, ID, References **Sat, DC.TQ.RECORDS.R, 192.807(a) (Operators OQ program manual)**  
 Question Text *Are qualification records maintained for operator personnel?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Reviewed OQ records for Larry Chapman and Scott Moon**
96. Question Result, ID, References **Sat, DC.TQ.OQPLANEMPLOYEE.O, 192.805(b) (Operators OQ program manual)**  
 Question Text *Do selected operator individuals performing covered tasks demonstrate adequate skills and knowledge?*  
 Assets Covered **86234 (1850)**

- Result Notes Scott Moon and Larry Chapman performed valve inspection and atmospheric corrosion inspection. They both demonstrated adequate skills and knowledge.
97. Question Result, ID, References NA, DC.TQ.EXCAVATE.R, 192.807(a) (ADB-06-01)  
 Question Text *Do records demonstrate individuals who oversee marking, trenching and backfilling operations are qualified?*  
 Assets Covered 86234 (1850)  
 Result Notes No excavation or backfilling was performed during this inspection period
98. Question Result, ID, References NA, DC.TQ.EXCAVATE.O, 192.805(b) (ADB-06-01)  
 Question Text *Do selected individuals who oversee marking, trenching and backfilling operations demonstrate adequate skills and knowledge?*  
 Assets Covered 86234 (1850)  
 Result Notes No such activity/condition was observed during the inspection.
99. Question Result, ID, References NA, DC.TQ.HOTTAP.R, 192.807(a) (192.627)  
 Question Text *Do records document the qualification of personnel performing hot taps?*  
 Assets Covered 86234 (1850)  
 Result Notes No hot tapping was performed during this inspection period
100. Question Result, ID, References NA, DC.TQ.HOTTAP.O, 192.805(b) (192.627)  
 Question Text *Do personnel performing hot taps demonstrate adequate skills and knowledge?*  
 Assets Covered 86234 (1850)  
 Result Notes No such activity/condition was observed during the inspection.

## EP.ERG: Emergency Response

101. Question Result, ID, References Sat, EP.ERG.REVIEW.R, 192.605(a)  
 Question Text *Have annual reviews been conducted of the emergency plans and procedures as required, and any updates completed as appropriate?*  
 Assets Covered 86234 (1850)  
 Result Notes Provided current version of ERP, revised 11/7/17, ERP revised 2015, 2016, 2017 and 2018.  
  
 Emergency response was under Air Liquide but now exists as Airgas Mechant
102. Question Result, ID, References Sat, EP.ERG.LOCATION.O, 192.615(b)(1)  
 Question Text *Are supervisors provided the applicable portions of the emergency plan and procedures?*  
 Assets Covered 86234 (1850)  
 Result Notes Scott Moon had access to all manuals and records
103. Question Result, ID, References NA, EP.ERG.NOTICES.R, 192.615(a)(1)  
 Question Text *Do records indicate receiving, identifying, classifying and communication of notices of events requiring immediate response in accordance with procedures?*  
 Assets Covered 86234 (1850)  
 Result Notes No events requiring immediate response occurred during this inspection period
104. Question Result, ID, References Sat, EP.ERG.READINESS.O, 192.615(a)(4)  
 Question Text *Are personnel, equipment, tools, and materials needed at the scene of an emergency available as required by its procedures?*  
 Assets Covered 86234 (1850)
105. Question Result, ID, References NA, EP.ERG.INCIDENTANALYSIS.R, 192.605(a) (192.617)

Question Text *Do records indicate actions initiated to analyze accidents and failures, including the collection of appropriate samples for laboratory examination to determine the causes of the failure and minimize the possibility of recurrence, in accordance with its procedures?*

Assets Covered 86234 (1850)

Result Notes No accidents or failures occurred during this inspection period

106. Question Result, ID, References NA, EP.ERG.POSTEVNTREVIEW.R, 192.605(a) (192.615(b)(1), 192.615(b)(3))

Question Text *Do records indicate review of employee activities to determine whether the procedures were effectively followed in each emergency?*

Assets Covered 86234 (1850)

Result Notes No emergencies occurred during this inspection period

107. Question Result, ID, References Sat, EP.ERG.LIAISON.R, 192.605(a) (192.615(c)(1), 192.615(c)(2), 192.615(c)(3), 192.615(c)(4), 192.616(c), ADB-05-03) (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 86234 (1850)

Result Notes Attended meeting in November 2015, December 2016 and February 2018, brochures also sent out annually

## MO.GOABNORMAL: Gas Pipeline Abnormal Operations

108. Question Result, ID, References NA, MO.GOABNORMAL.ABNORMAL.R, 192.605(a) (192.605(c)(1))

Question Text *Did personnel respond to indications of abnormal operations as required by the process?*

Assets Covered 86234 (1850)

Result Notes No abnormal operations have occurred

109. Question Result, ID, References NA, MO.GOABNORMAL.ABNORMALREVIEW.R, 192.605(a) (192.605(c)(4))

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

Assets Covered 86234 (1850)

Result Notes No abnormal operations have occurred

## MO.GOCLASS: Gas Pipeline Class Location

110. Question Result, ID, References NA, MO.GOCLASS.CLASSLOCATEREV.R, 192.605(b)(1) (192.611(a), 192.611(b), 192.611(c), 192.611(d))

Question Text *Was the MAOP in a pipeline segment confirmed or revised within 24 months as required?*

Assets Covered 86234 (1850)

Result Notes No change in class location occurred

111. Question Result, ID, References Sat, MO.GOCLASS.CLASSLOCATEREV.O, 192.611(a)

Question Text *Are current ROW conditions and class locations consistent?*

Assets Covered 86234 (1850)

Result Notes Drove ROW on 07/30/18, conditions were good

112. Question Result, ID, References NA, MO.GOCLASS.CLASSLOCATESTUDY.R, 192.605(b)(1) (192.609(a), 192.609(b), 192.609(c), 192.609(d), 192.609(e), 192.609(f))

Question Text *Do records indicate performance of the required study whenever the population along a pipeline increased or there was an indication that the pipe hoop stress was not commensurate with the present class location?*

Assets Covered 86234 (1850)

Result Notes No population increase along the pipeline ROW

113. Question Result, ID, **Sat, MO.GO.CONTSURVEILLANCE.R, 192.709(c) (192.613(a), 192.613(b), 192.703(b), 192.703(c))** (also References presented in: MO.GO)  
 Question Text *Do records indicate performance of continuing surveillance of facilities as required, and also the reconditioning, phasing out, or MAOP reduction in any pipeline segment that was determined to be in unsatisfactory condition but on which no immediate hazard existed?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Patrolling performed quarterly**
114. Question Result, ID, **NA, MO.GO.CONTSURVEILLANCE.O, 192.613(a) (192.613(b), 192.703(a), 192.703(b), 192.703(c))** (also References presented in: MO.GO)  
 Question Text *Are unsatisfactory conditions being captured and addressed by continuing surveillance of facilities and the pipeline as required by 192.613?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**

## MO.GOMAOP: Gas Pipeline MAOP

115. Question Result, ID, References **Sat, MO.GOMAOP.MAOPDETERMINE.R, 192.709(c) (192.619(a), 192.619(b))**  
 Question Text *Do records indicate determination of the MAOP of pipeline segments in accordance with 192.619 and limiting of the operating pressure as required?*  
 Assets Covered **86234 (1850)**  
 Result Notes **MAOP is 401 psig based on pressure test of 442 psig, lowest rated component was 700 psig**
116. Question Result, ID, References **Sat, MO.GOMAOP.MAOPLIMIT.R, 192.603(b) (192.605(b)(5))**  
 Question Text *Do records indicate operation within MAOP limits, plus the build-up allowed for operation of pressure-limiting and control devices, was assured while starting up and shutting down any part of the pipeline?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Reviewed pressure logs for previous 30 days**

## MO.GM: Gas Pipeline Maintenance

117. Question Result, ID, References **Sat, MO.GM.IGNITION.R, 192.709 (192.751(a), 192.751(b), 192.751(c))**  
 Question Text *Do records indicate personnel followed processes for minimizing the danger of accidental ignition where the presence of gas constituted a hazard of fire or explosion?*  
 Assets Covered **86234 (1850)**
118. Question Result, ID, References **NA, MO.GM.IGNITION.O, 192.751(a) (192.751(b), 192.751(c))**  
 Question Text *Are field activities adequate on a gas transmission line where there exists the potential for accidental ignition?*  
 Assets Covered **86234 (1850)**  
 Result Notes **No such activity/condition was observed during the inspection.**
119. Question Result, ID, References **Sat, MO.GM.RECORDS.R, 192.605(b)(1) (192.243(f), 192.709(a), 192.709(b), 192.709(c))** (also presented in: MO.GMOPP)  
 Question Text *Do records indicate that records are maintained of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Reviewed records for patrolling, leak survey, CP survey**
120. Question Result, ID, References **Sat, MO.GM.VALVEINSPECT.R, 192.709(c) (192.745(a), 192.745(b))**  
 Question Text *Do records indicate proper inspection and partial operation of transmission line valves that may be required during an emergency as required and prompt remedial actions taken if necessary?*  
 Assets Covered **86234 (1850)**  
 Result Notes **Reviewed records for 2015, 2016, 2017 and 2018. All inspections performed in March**

121. Question Result, ID, References **Sat, MO.GM.VALVEINSPECT.O, 192.745(a) (192.745(b))**  
Question Text *Are field inspection and partial operation of transmission line valves adequate?*  
Assets Covered **86234 (1850)**  
Result Notes **Performed by Scott Moon, Valve operated freely, inspected for corrosion and security**

## MO.GOODOR: Gas Pipeline Odorization

122. Question Result, ID, References **NA, MO.GOODOR.ODORIZE.R, 192.709(c) (192.625(a), 192.625(b), 192.625(c), 192.625(d), 192.625(e), 192.625(f))**  
Question Text *Do records indicate appropriate odorization of its combustible gases in accordance with its processes and conduct of the required testing to verify odorant levels met requirements?*  
Assets Covered **86234 (1850)**  
Result Notes **Unodorized hydrogen line**

123. Question Result, ID, References **NA, MO.GOODOR.ODORIZE.O, 192.625(f)**  
Question Text *Is sampling of combustible gases adequate using an instrument capable of determining the percentage of gas in air at which it becomes readily detectable?*  
Assets Covered **86234 (1850)**  
Result Notes **No such requirement existed in the scope of inspection review.**

## MO.GO: Gas Pipeline Operations

124. Question Result, ID, References **Sat, MO.GO.CONTSURVEILLANCE.R, 192.709(c) (192.613(a), 192.613(b), 192.703(b), 192.703(c))** (also presented in: MO.GOCLASS)  
Question Text *Do records indicate performance of continuing surveillance of facilities as required, and also the reconditioning, phasing out, or MAOP reduction in any pipeline segment that was determined to be in unsatisfactory condition but on which no immediate hazard existed?*  
Assets Covered **86234 (1850)**  
Result Notes **Patrolling performed quarterly**

125. Question Result, ID, References **NA, MO.GO.CONTSURVEILLANCE.O, 192.613(a) (192.613(b), 192.703(a), 192.703(b), 192.703(c))** (also presented in: MO.GOCLASS)  
Question Text *Are unsatisfactory conditions being captured and addressed by continuing surveillance of facilities and the pipeline as required by 192.613?*  
Assets Covered **86234 (1850)**  
Result Notes **No such activity/condition was observed during the inspection.**

126. Question Result, ID, References **Sat, MO.GO.OMANNUALREVIEW.R, 192.605(a)**  
Question Text *Has the operator conducted annual reviews of the written procedures or processes in the manual as required?*  
Assets Covered **86234 (1850)**  
Result Notes **Air Liquide manual revised 09/2015, 08/2016, 08/2017 and 09/2017**  
**Airgas O&M Manual revised July 2017**

127. Question Result, ID, References **Sat, MO.GO.OMEFFECTREVIEW.R, 192.605(a) (192.605(b)(8))**  
Question Text *Do records indicate periodic review of the work done by operator personnel to determine the effectiveness, and adequacy of the processes used in normal operations and maintenance and modifying the processes when deficiencies are found?*  
Assets Covered **86234 (1850)**  
Result Notes **Periodic review of employees performing OQ tasks, procedures revised based on employee review**

128. Question Result, ID, References **Sat, MO.GO.OMHISTORY.R, 192.605(a) (192.605(b)(3))**



Question Text *Are construction records, maps and operating history available to appropriate operating personnel?*

Assets Covered 86234 (1850)

Result Notes Boxes available in office with maps, construction drawings and operating history

129. Question Result, ID, References Sat, MO.GO.OMHISTORY.O, 192.605(b)(3)

Question Text *Are construction records, maps and operating history available to appropriate operating personnel?*

Assets Covered 86234 (1850)

Result Notes Operations personnel had access to records, maps and procedures in the main office

130. Question Result, ID, References Sat, MO.GO.OMLOCATION.O, 192.605(a)

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

Assets Covered 86234 (1850)

Result Notes Manuals are at the office

131. Question Result, ID, References NA, MO.GO.UPRATE.R, 192.553(b) (192.553(a), 192.553(c), 192.553(d))

Question Text *Do records indicate the pressure uprating process was implemented per the requirements of 192.553?*

Assets Covered 86234 (1850)

Result Notes No uprates have occurred

## MO.GMOPP: Gas Pipeline Overpressure Protection

132. Question Result, ID, References NA, MO.GMOPP.PRESSREGCAP.R, 192.709(c) (192.743(a), 192.743(b), 192.743(c))

Question Text *Do records indicate testing or review of the capacity of each pressure relief device at each pressure limiting station and pressure regulating station as required and a new or additional device installed if determined to have insufficient capacity?*

Assets Covered 86234 (1850)

Result Notes No overpressure protection, compressor cannot exceed MAOP

133. Question Result, ID, References NA, MO.GMOPP.PRESSREGTEST.R, 192.709(c) (192.739(a), 192.739(b))

Question Text *Do records indicate inspection and testing of pressure limiting, relief devices, and pressure regulating stations as required and at the specified intervals?*

Assets Covered 86234 (1850)

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

134. Question Result, ID, References NA, MO.GMOPP.PRESSREGTEST.O, 192.739(a) (192.739(b), 192.743)

Question Text *Are field or bench tests or inspections of regulating stations, pressure limiting stations or relief devices adequate?*

Assets Covered 86234 (1850)

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

135. Question Result, ID, References Sat, MO.GM.RECORDS.R, 192.605(b)(1) (192.243(f), 192.709(a), 192.709(b), 192.709(c)) (also presented in: MO.GM)

Question Text *Do records indicate that records are maintained of each pipe/"other than pipe" repair, NDT required record, and (as required by subparts L or M) patrol, survey, inspection or test?*

Assets Covered 86234 (1850)

Result Notes Reviewed records for patrolling, leak survey, CP survey

## MO.RW: ROW Markers, Patrols, Leakage Survey and Monitoring

136. Question Result, ID, References Sat, MO.RW.PATROL.P, 192.705(a) (192.705(b), 192.705(c)) (also presented in: PD.RW)

Question Text *Does the process adequately cover the requirements for patrolling the ROW and conditions reported?*

Assets Covered 86234 (1850)

Result Notes P192.705 ROW Inspections

137. Question Result, ID, References Sat, MO.RW.PATROL.R, 192.709(c) (192.705(a), 192.705(b), 192.705(c)) (also presented in: PD.RW)  
Question Text *Do records indicate that ROW surface conditions have been patrolled as required?*  
Assets Covered 86234 (1850)  
Result Notes Reviewed records for 2015, 2016, 2017 and through July 2018. Performed quarterly, 4x per year
138. Question Result, ID, References Sat, MO.RW.ROWMARKER.P, 192.707(a) (192.707(b), 192.707(c), 192.707(d)) (also presented in: PD.RW)  
Question Text *Does the process adequately cover the requirements for placement of ROW markers?*  
Assets Covered 86234 (1850)  
Result Notes P-192.707 Place and Maintain Line Markers
139. Question Result, ID, References Sat, MO.RW.ROWMARKER.O, 192.707(a) (192.707(b), 192.707(c), 192.707(d)) (also presented in: PD.RW)  
Question Text *Are line markers placed and maintained as required?*  
Assets Covered 86234 (1850)
140. Question Result, ID, References Sat, MO.RW.ROWCONDITION.O, 192.705(a) (192.705(c)) (also presented in: PD.RW)  
Question Text *Are the ROW conditions acceptable for the type of patrolling used?*  
Assets Covered 86234 (1850)
141. Question Result, ID, References Concern, MO.RW.LEAKAGE.R, 192.709(c) (192.706, 192.706(a), 192.706(b), 192.935(d))  
Question Text *Do records indicate leakage surveys conducted as required?*  
Assets Covered 86234 (1850)  
Result Issue Summary Airgas' leak survey records do not directly identify which instrument was used for the leak survey, making it difficult to determine equipment calibration and equipment identification. A separate document was provided showing equipment ID and calibration but it was unclear if the date shown was the due date or the calibration date and there was nothing linking that separate document to the leak survey form provided.  
Result Notes Airgas' leak survey records do not directly identify which instrument was used for the leak survey, making it difficult to determine equipment calibration and equipment identification. A separate document was provided showing equipment ID and calibration but it was unclear if the date shown was the due date or the calibration date and there was nothing linking that separate document to the leak survey form provided.
142. Question Result, ID, References NA, MO.RW.LEAKAGE.O, 192.706 (192.706(a), 192.706(b))  
Question Text *Are leakage surveys being implemented as required?*  
Assets Covered 86234 (1850)  
Result Notes No such activity/condition was observed during the inspection.
143. Question Result, ID, References Sat, MO.RW.LEAKAGE30SMYS.R, 192.935(d) (192.935(b)(1)(i), 192.935(b)(1)(iii))  
Question Text *For pipelines operating below 30% SMYS in a Class 3 or 4 locations, but not in an HCA, do records indicate performance of leak surveys?*  
Assets Covered 86234 (1850)

## PD.OC: One-Call Damage Prevention

144. Question Result, ID, References Sat, PD.OC.PDPROGRAM.P, 192.614(a)  
Question Text *Is a damage prevention program approved and in place?*  
Assets Covered 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program
145. Question Result, ID, References Sat, PD.OC.ONECALL.P, 192.614(b)  
Question Text *Does the process require participation in qualified one-call systems?*

Assets Covered 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program

146. Question Result, ID, References Sat, PD.OC.EXCAVATEMARK.P, 192.614(c)(5)  
Question Text *Does the process require marking proposed excavation sites to CGA Best Practices or use more stringent and accurate requirements?*  
Assets Covered 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program Section 2
147. Question Result, ID, References Sat, PD.OC.TPD.P, 192.614(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 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program Section 1  
Public Awareness Program Section 5.6

148. Question Result, ID, References Sat, PD.OC.TPDONECALL.P, 192.614(c)(3)  
Question Text *Does the process specify how reports of TPD are checked against One-Call tickets?*  
Assets Covered 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program Section 3

149. Question Result, ID, References Sat, PD.OC.PDPROGRAM.R, 192.614(c)  
Question Text *Does the damage prevention program meet minimum requirements specified in 192.614(c)?*  
Assets Covered 86234 (1850)  
Result Notes P-192.614 Damage Prevention Program

150. Question Result, ID, References Sat, PD.OC.DPINFOGATHER.P, 192.917(b) (192.935(b)(1)(ii))  
Question Text *Does the process require critical damage prevention information be gathered and recorded during pipeline patrols, leak surveys, and integrity assessments?*  
Assets Covered 86234 (1850)

151. Question Result, ID, References Sat, PD.OC.DPINFOGATHER.R, 192.947(b) (192.917(b), 192.935(b)(1)(ii))  
Question Text *Do records demonstrate that critical damage prevention information is being gathered and recorded during pipeline patrols, leakage surveys, and integrity assessments?*  
Assets Covered 86234 (1850)

## PD.PA: Public Awareness

152. Question Result, ID, References Sat, PD.PA.PROGRAM.P, 192.616(a) (192.616(h))  
Question Text *Has the continuing public education (awareness) program been established as required?*  
Assets Covered 86234 (1850)  
Result Notes Public Awareness Program reviewed
153. Question Result, ID, References Sat, PD.PA.MGMTSUPPORT.P, 192.616(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 86234 (1850)  
Result Notes Letter from VP in PA Manual
154. Question Result, ID, References Sat, PD.PA.ASSETS.P, 192.616(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 86234 (1850)

155. Question Result, ID, Sat, PD.PA.AUDIENCEID.P, 192.616(d) (192.616(e), 192.616(f), API RP 1162 Section 2.2, API RP 1162 References 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 86234 (1850)

Result Notes PA Manual Section 5, Table has column labeled "Audience Identification"

156. Question Result, ID, Sat, PD.PA.AUDIENCEID.R, 192.616(d) (192.616(e), 192.616(f), API RP 1162 Section 2.2, API RP 1162 References 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 86234 (1850)

Result Notes Reviewed Excel spreadsheet listing all affected, emergency officials, excavators and public officials

157. Question Result, ID, Sat, PD.PA.MESSAGES.P, 192.616(c) (API RP 1162 Section 3, API RP 1162 Section 4, API RP 1162 References 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 gas is transported?*

Assets Covered 86234 (1850)

Result Notes PA Manual Section 6

158. Question Result, ID, Sat, PD.PA.SUPPLEMENTAL.P, 192.616(c) (API RP 1162 Section 6.2) References

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

Assets Covered 86234 (1850)

Result Notes PA Manual Section 1.4

159. Question Result, ID, Sat, PD.PA.EDUCATE.R, 192.616(d) (192.616(f)) References

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 gas pipeline facility; (3) Physical indications of a possible release; (4) Steps to be taken for public safety in the event of a gas pipeline release; and (5) Procedures to report such an event?*

Assets Covered 86234 (1850)

Result Notes Reviewed documents for Public, Government Officials, Schools, Excavators and Emergency Officials

160. Question Result, ID, Sat, PD.PA.LOCATIONMESSAGE.R, 192.616(e) (192.616(f)) References

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

Assets Covered 86234 (1850)

Result Notes Reviewed documents for Public, Government Officials, Schools, Excavators and Emergency Officials

161. Question Result, ID, Sat, PD.PA.MESSAGEFREQUENCY.R, 192.616(c) (API RP 1162 Table 2-1, API RP 1162 Table 2-2, API RP 1162 Table 2-3) References

Question Text *Did the delivery of materials and messages meet or exceed the baseline delivery frequencies specified in API RP 1162, Table 2-1 through Table 2.3?*

Assets Covered 86234 (1850)

Result Notes PA Manual Section 7

162. Question Result, ID, Sat, EP.ERG.LIAISON.R, 192.605(a) (192.615(c)(1), 192.615(c)(2), 192.615(c)(3), 192.615(c)(4), References 192.616(c), ADB-05-03) (also presented in: EP.ERG)

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

Assets Covered 86234 (1850)

Result Notes Attended meeting in November 2015, December 2016 and February 2018, brochures also sent out annually

163. Question Result, ID, References Sat, PD.PA.LANGUAGE.P, 192.616(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 86234 (1850)

Result Notes English and Spanish for Affected Public

164. Question Result, ID, References Sat, PD.PA.LANGUAGE.R, 192.616(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 86234 (1850)

Result Notes English and Spanish

165. Question Result, ID, References Sat, PD.PA.EVALPLAN.P, 192.616(i) (192.616(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 86234 (1850)

Result Notes PA Manual Section 12

166. Question Result, ID, References Sat, PD.PA.EVALIMPL.R, 192.616(c) (192.616(i), API RP 1162 Section 8.3)

Question Text *Has an audit or review of the operator's program implementation been performed annually since the program was developed?*

Assets Covered 86234 (1850)

Result Notes Annual Review performed by Airgas/Air Liquide

167. Question Result, ID, References Sat, PD.PA.AUDITMETHODS.R, 192.616(c) (192.616(i), API RP 1162 Section 8.3)

Question Text *Was one or more of the three acceptable methods (i.e., internal assessment, 3rd-party contractor review, or regulatory inspections) used to complete the annual audit or review of program implementation?*

Assets Covered 86234 (1850)

Result Notes Internal Assessment

168. Question Result, ID, References Sat, PD.PA.PROGRAMIMPROVE.R, 192.616(c) (API RP 1162 Section 8.3)

Question Text *Were changes made to improve the program and/or the implementation process based on the results and findings of the annual audit(s)?*

Assets Covered 86234 (1850)

Result Notes Changes annotated in change log

169. Question Result, ID, References Sat, PD.PA.EVALEFFECTIVENESS.R, 192.616(c) (API RP 1162 Section 8.4)

Question Text *Have effectiveness evaluation(s) of the program been performed for all stakeholder groups in all notification areas along all systems covered by the program?*

Assets Covered 86234 (1850)

170. Question Result, ID, References Sat, PD.PA.MEASUREOUTREACH.R, 192.616(c) (API RP 1162 Section 8.4.1)

Question Text *In evaluating effectiveness, was actual program outreach for each stakeholder audience tracked?*

Assets Covered 86234 (1850)

Result Notes Reviewed data from Paradigm

171. Question Result, ID, References Sat, PD.PA.MEASUREUNDERSTANDABILITY.R, 192.616(c) (API RP 1162 Section 8.4.2)

Question Text *In evaluating program effectiveness, was the percentage of each stakeholder audience that understood and retained the key information from the messages determined?*

Assets Covered 86234 (1850)

Result Notes Yes, Average score was 80.7%

172. Question Result, ID, References Sat, PD.PA.MEASUREBEHAVIOR.R, 192.616(c) (API RP 1162 Section 8.4.3)

Question Text *In evaluating program effectiveness, was evaluation made of whether appropriate preventive, response, and mitigative behaviors were understood and likely to be exhibited?*

Assets Covered 86234 (1850)

Result Notes Preventive, response and mitigative behavior type questions were asked in mailer questionnaire

173. Question Result, ID, References NA, PD.PA.MEASUREBOTTOM.R, 192.616(c) (API RP 1162 Section 8.4.4)

Question Text *Were bottom-line results of the program measured 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 86234 (1850)

Result Notes No third-party incidents so there is nothing to measure

174. Question Result, ID, References Sat, PD.PA.CHANGES.R, 192.616(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 86234 (1850)

Result Notes No changes necessary based on effectiveness evaluation

## PD.RW: ROW Markers, Patrols, Monitoring

175. Question Result, ID, References Sat, MO.RW.PATROL.P, 192.705(a) (192.705(b), 192.705(c)) (also presented in: MO.RW)

Question Text *Does the process adequately cover the requirements for patrolling the ROW and conditions reported?*

Assets Covered 86234 (1850)

Result Notes P192.705 ROW Inspections

176. Question Result, ID, References Sat, MO.RW.PATROL.R, 192.709(c) (192.705(a), 192.705(b), 192.705(c)) (also presented in: MO.RW)

Question Text *Do records indicate that ROW surface conditions have been patrolled as required?*

Assets Covered 86234 (1850)

Result Notes Reviewed records for 2015, 2016, 2017 and through July 2018. Performed quarterly, 4x per year

177. Question Result, ID, References Sat, MO.RW.ROWMARKER.P, 192.707(a) (192.707(b), 192.707(c), 192.707(d)) (also presented in: MO.RW)

Question Text *Does the process adequately cover the requirements for placement of ROW markers?*

Assets Covered 86234 (1850)

Result Notes P-192.707 Place and Maintain Line Markers

178. Question Result, ID, References Sat, MO.RW.ROWMARKER.O, 192.707(a) (192.707(b), 192.707(c), 192.707(d)) (also presented in: MO.RW)

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

Assets Covered 86234 (1850)

179. Question Result, ID, References Sat, MO.RW.ROWCONDITION.O, 192.705(a) (192.705(c)) (also presented in: MO.RW)

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

Assets Covered 86234 (1850)

## PD.SP: Special Permits

180. Question Result, ID, References NA, PD.SP.REPAIR.P, 190.341(d)(2)

Question Text *If the operator operates a pipeline under a special permit have the processes been modified to incorporate the requirements of the permit for required repairs?*

Assets Covered 86234 (1850)

Result Notes No such requirement existed in the scope of inspection review.

181. Question Result, ID, References NA, PD.SP.BESTPRACTICE.P, 190.341(d)(2)

Question Text *If the operator operates a pipeline under a special permit, do the processes specify implementation of applicable CGA Best Practices?*

Assets Covered 86234 (1850)

Result Notes No such requirement existed in the scope of inspection review.

182. Question Result, ID, References NA, PD.SP.REPAIR.R, 190.341(d)(2)

Question Text *If the operator operates a pipeline under a special permit, do records indicate that required repairs were performed?*

Assets Covered 86234 (1850)

Result Notes Airgas does not operate under a special permit

## RPT.NR: Notices and Reporting

183. Question Result, ID, References NA, RPT.NR.NOTIFYOQ.R, 192.805(i)

Question Text *Do records indicate the Administrator or state agency was notified when the OQ Program was significantly modified?*

Assets Covered 86234 (1850)

Result Notes No significant changes

184. Question Result, ID, References NA, RPT.NR.NOTIFYIMCHANGE.R, 192.947(i) (192.909(b))

Question Text *Do records demonstrate that PHMSA and/or state/local authorities were notified of substantial or significant changes to the Integrity Management Program?*

Assets Covered 86234 (1850)

Result Notes No HCAs so Airgas has no integrity management plan

185. Question Result, ID, References NA, RPT.NR.NOTIFYIMPRESS.R, 192.947(i) (192.933(a)(1))

Question Text *Do records demonstrate that PHMSA and/or state/local authorities were notified with the required information when one of the following occurred: 1) schedule for evaluation and remediation could not be met and safety could not be provided through a temporary reduction in operating pressure, or 2) when a pressure reduction exceeded 365 days?*

Assets Covered 86234 (1850)

Result Notes No such requirement existed in the scope of inspection review.

186. Question Result, ID, References NA, RPT.NR.IMDEVIATERPT.R, 192.947(i) (192.913(b)(1)(vii))

Question Text *Do records demonstrate adequate reporting of integrity management program performance measures if deviating from certain IMP requirements (exceptional performance)?*

Assets Covered 86234 (1850)

Result Notes No such requirement existed in the scope of inspection review.

187. Question Result, ID, References NA, RPT.NR.IMPERFRPT.R, 192.947(i) (192.945(a), 191.17, ASME B31.8S-2004 Appendix A Section 9.8)

Question Text *Do annual reports demonstrate that integrity management performance data were reported?*

Assets Covered 86234 (1850)

Result Notes No such requirement existed in the scope of inspection review.

## RPT.RR: Regulatory Reporting (Traditional)

188. Question Result, ID, References Unsat, RPT.RR.ANNUALREPORT.R, 191.17(a)

Question Text *Have complete and accurate Annual Reports been submitted?*

Assets Covered 86234 (1850)

Result Issue Summary Reports were submitted late to PHMSA and the WUTC for the 2015 Annual Report and there is no record that the report was submitted for 2017.

- 2015 Annual Report submitted to PHMSA on 03/15/2016 and submitted to the WUTC on 07/13/2016
- 2017 Annual Report was submitted to PHMSA on 03/26/2018 and there is no record that it was submitted to the WUTC

Standard Issues C (Documentation/administrative - no significant impact) : WAC 480-93-10(a) : Records indicate requirement not completed at required intervals.

Result Notes Reports were submitted late to PHMSA and the WUTC for the 2015 Annual Report and there is no record that the report was submitted for 2017.

- 2015 Annual Report submitted to PHMSA on 03/15/2016 and submitted to the WUTC on 07/13/2016
- 2017 Annual Report was submitted to PHMSA on 03/26/2018 and there is no record that it was submitted to the WUTC

189. Question Result, ID, References NA, RPT.RR.IMMEDREPORT.R, 191.5(a) (191.7(a))

Question Text *Do records indicate immediate notifications of incidents were made in accordance with 191.5?*

Assets Covered 86234 (1850)

Result Notes No incidents occurred during this inspection period

190. Question Result, ID, References NA, RPT.RR.INCIDENTREPORT.R, 191.15(a)

Question Text *Do records indicate reportable incidents were identified and reports were submitted to DOT on Form 7100.2 within the required timeframe?*

Assets Covered 86234 (1850)

Result Notes No incidents occurred during this inspection period

191. Question Result, ID, References NA, RPT.RR.INCIDENTREPORTSUPP.R, 191.15(c)

Question Text *Do records indicate accurate supplemental incident reports were filed and within the required timeframe?*

Assets Covered 86234 (1850)

Result Notes No incidents occurred during this inspection period

192. Question Result, ID, References NA, RPT.RR.SRCR.R, 191.23(a) (191.23(b), 191.25(a), 191.25(b))

Question Text *Do records indicate safety-related condition reports were filed as required?*

Assets Covered 86234 (1850)

Result Notes No SRCs occurred during this inspection period

193. Question Result, ID, References Unsat, RPT.RR.NPMSANNUAL.R, (191.29(a), 191.29(b))

Question Text *Do records indicate NPMS submissions were completed each year, on or before March 15, representing all in service, idle and retired assets as of December 31 of the previous year (excludes distribution lines and gathering lines) occurred, and that if no modifications occurred, an email was submitted stating that fact?*

Assets Covered 86234 (1850)

Result Issue Summary Airgas was unable to provide a record that they had notified NPMS of no changes to their system by March 15 of each year for 2015, 2016 and 2017

Standard Issues C (Documentation/administrative - no significant impact) : 191.29(b) : No record/documentation.

Result Notes Airgas was unable to provide a record that they had notified NPMS of no changes to their system by March 15 of each year for 2015, 2016 and 2017

194. Question Result, ID, References Sat, RPT.RR.OPID.R, 191.22(a) (191.22(c), 191.22(d))



Question Text *Do records indicate appropriate obtaining, and control of, Operator Identification Numbers (OPIDs), including changes in entity, acquisition/divestiture, and construction/update/uprate?*

Assets Covered 86234 (1850)

Result Notes Received new OPID March 28, 2017 for Airgas Merchant

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## TD.ATM: External Corrosion - Atmospheric

195. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.O, 192.481(b) (192.481(c), 192.479(a), 192.479(b), 192.479(c))

Question Text *Is pipe that is exposed to atmospheric corrosion protected?*

Assets Covered 86234 (1850)

Result Notes Minimal visible surface corrosion, insulating spacers visible at pipe supports

196. Question Result, ID, References Sat, TD.ATM.ATMCORRODE.R, 192.491(c) (192.479(a), 192.479(b), 192.479(c))

Question Text *Do records document the protection of above ground pipe from atmospheric corrosion?*

Assets Covered 86234 (1850)

197. Question Result, ID, References Sat, TD.ATM.ATMCORRODEINSP.R, 192.491(c) (192.481(a), 192.481(b), 192.481(c))

Question Text *Do records document inspection of aboveground pipe for atmospheric corrosion?*

Assets Covered 86234 (1850)

Result Notes Reviewed records for 2015, 2016, 2017 and 2018

## TD.CPMONITOR: External Corrosion - CP Monitoring

198. Question Result, ID, References Sat, TD.CPMONITOR.CURRENTTEST.R, 192.491(c) (192.465(b))

Question Text *Do records document details of electrical checks of sources of rectifiers or other impressed current sources?*

Assets Covered 86234 (1850)

Result Notes Reviewed records for 2015, 2016, 2017 and through June 2018

199. Question Result, ID, References Sat, TD.CPMONITOR.MONITORCRITERIA.O, 192.465(a)

Question Text *Are methods used for taking CP monitoring readings that allow for the application of appropriate CP monitoring criteria?*

Assets Covered 86234 (1850)

Result Notes -1411 mV @ Riser on Airgas end of pipe

-1495 mV @ riser on Emerald end of pipe

200. Question Result, ID, References Sat, TD.CPMONITOR.MONITORCRITERIA.R, 192.491(c) (192.463(a))

Question Text *Do records document that the CP monitoring criteria used was acceptable?*

Assets Covered 86234 (1850)

Result Notes -850 mV, Instant off reading taken at rectifier

201. Question Result, ID, References Sat, TD.CPMONITOR.TEST.R, 192.491(c) (192.465(a))

Question Text *Do records adequately document cathodic protection monitoring tests have occurred as required?*

Assets Covered 86234 (1850)

Result Notes Performed 2 times per year, reviewed records for 2015, 2016, 2017 and 2018

202. Question Result, ID, References Sat, TD.CPMONITOR.CURRENTTEST.O, 192.465(b)

Question Text *Are impressed current sources properly maintained and are they functioning properly?*  
Assets Covered 86234 (1850)  
Result Notes One rectifier on system, 13.99 V, 0.8 A, -2029 mV ON reading and -1031 mV OFF reading, 1C and 4F tap settings

203. Question Result, ID, References NA, TD.CPMONITOR.REVCURRENTTEST.R, 192.491(c) (192.465(c))

Question Text *Do records document details of electrical checks interference bonds, diodes, and reverse current switches?*

Assets Covered 86234 (1850)

Result Notes No bonds

204. Question Result, ID, References NA, TD.CPMONITOR.REVCURRENTTEST.O, 192.465(c)

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

Assets Covered 86234 (1850)

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

205. Question Result, ID, References NA, TD.CPMONITOR.DEFICIENCY.R, 192.491(c) (192.465(d))

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

Assets Covered 86234 (1850)

Result Notes No deficiencies found during surveys

206. Question Result, ID, References Sat, TD.CPMONITOR.TESTSTATION.R, 192.469

Question Text *Do records identify the location of test stations and show a sufficient number of test stations?*

Assets Covered 86234 (1850)

207. Question Result, ID, References Sat, TD.CPMONITOR.TESTSTATION.O, 192.469

Question Text *Do cathodically protected pipelines have a sufficient number of test stations?*

Assets Covered 86234 (1850)

208. Question Result, ID, References Sat, TD.CPMONITOR.TESTLEAD.R, 192.491(c) (192.471(a), 192.471(b), 192.471(c))

Question Text *Do records document that pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I?*

Assets Covered 86234 (1850)

209. Question Result, ID, References Sat, TD.CPMONITOR.TESTLEAD.O, 192.471(a) (192.471(b), 192.471(c))

Question Text *Do pipelines with cathodic protection have electrical test leads installed in accordance with requirements of Subpart I?*

Assets Covered 86234 (1850)

210. Question Result, ID, References Sat, TD.CPMONITOR.INTFRCURRENT.R, 192.491(c) (192.473(a))

Question Text *Do records document an effective program is in place to minimize detrimental effects of interference currents and that detrimental effects of interference currents from CP systems on other underground metallic structures are minimized?*

Assets Covered 86234 (1850)

Result Notes Contractor takes AC read during semi annual surveys, no issues found

211. Question Result, ID, References NA, TD.CPMONITOR.INTFRCURRENT.O, 192.473(a)

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

Assets Covered 86234 (1850)

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

212. Question Result, ID, References **Sat, TD.CP.RECORDS.R, 192.491(a)** (also presented in: TD.CP, TD.CPEXPOSED)  
Question Text *Do records indicate the location of all items listed in 192.491(a)?*  
Assets Covered **86234 (1850)**

## TD.CP: External Corrosion - Cathodic Protection

213. Question Result, ID, References **Sat, TD.CP.POST1971.R, 192.491(c) (192.455(a), 192.457(a), 192.452(a), 192.452(b))**  
Question Text *Do records document that each buried or submerged pipeline installed after July 31, 1971, has been protected against external corrosion with a cathodic protection system within 1 year after completion of construction, conversion to service, or becoming jurisdictional onshore gathering?*  
Assets Covered **86234 (1850)**
214. Question Result, ID, References **NA, TD.CP.PRE1971.R, 192.491(c) (192.457(b))**  
Question Text *Do records document that pipelines installed before August 1, 1971 (except for cast and ductile iron lines) which are 1) bare or ineffectively coated transmission lines or 2) bare or coated pipes in compressor, regulator or meter stations have been cathodically protected in areas where active corrosion was found?*  
Assets Covered **86234 (1850)**  
Result Notes **No pipe installed prior to August 1, 1971**
215. Question Result, ID, References **NA, TD.CP.PRE1971.O, 192.457(b)**  
Question Text *Are bare or coated pipes in compressor, regulator or meter stations installed before August 1, 1971 (except for cast and ductile iron lines) cathodically protected in areas where active corrosion was found in accordance with Subpart I or Part 192?*  
Assets Covered **86234 (1850)**  
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
216. Question Result, ID, References **NA, TD.CP.AMPHOTERIC.R, 192.491(c) (192.463(b))**  
Question Text *Do records document adequate cathodic protection of amphoteric metals (aluminum) that are included in a steel pipeline?*  
Assets Covered **86234 (1850)**  
Result Notes **No amphoteric metals in their system**
217. Question Result, ID, References **NA, TD.CP.UNPROTECT.R, 192.491(c) (192.465(e))**  
Question Text *Do records adequately document the re-evaluation of non-cathodically protected buried pipelines for areas of active corrosion?*  
Assets Covered **86234 (1850)**  
Result Notes **Pipeline is cathodically protected**
218. Question Result, ID, References **Sat, TD.CP.ELECISOLATE.R, 192.491(c) (192.467(a), 192.467(b), 192.467(c), 192.467(d), 192.467(e))**  
Question Text *Do records adequately document 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 **86234 (1850)**  
Result Notes **CP testing records included isolation testing across flanges**
219. Question Result, ID, References **Sat, TD.CP.ELECISOLATE.O, 192.467(a) (192.467(b), 192.467(c), 192.467(d), 192.467(e))**  
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 **86234 (1850)**  
Result Notes **Isolation testing at flanges and at casings are performed during CP surveys**
220. Question Result, ID, References **NA, TD.CP.FAULTCURRENT.R, 192.491(c) (192.467(f))**

Question Text *Do records adequately document the installation and inspection of fault current and lightning protection?*

Assets Covered 86234 (1850)

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

221. Question Result, ID, References NA, TD.CP.FAULTCURRENT.O, 192.467(f)

Question Text *Are fault current and lightning protection for the pipeline installed and inspected?*

Assets Covered 86234 (1850)

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

222. Question Result, ID, References Sat, TD.CP.RECORDS.R, 192.491(a) (also presented in: TD.CPMONITOR, TD.CPEXPOSED)

Question Text *Do records indicate the location of all items listed in 192.491(a)?*

Assets Covered 86234 (1850)

## TD.COAT: External Corrosion - Coatings

223. Question Result, ID, References Sat, TD.COAT.NEWPIPE.R, 192.491(c) (192.455(a)(1), 192.461(a), 192.461(b), 192.483(a))

Question Text *Do records document that each buried or submerged pipeline installed after July 31, 1971 has been externally coated with a suitable coating material?*

Assets Covered 86234 (1850)

Result Notes FBE coated when installed

224. Question Result, ID, References NA, TD.COAT.NEWPIPENOCOAT.R, 192.491(c) (192.455(b))

Question Text *If a buried or submerged pipeline installed after July 31, 1971 was not installed with an external protective coating do records provide adequate documentation why such a coating was not necessary to protect the pipe from external corrosion?*

Assets Covered 86234 (1850)

Result Notes Pipeline has an external protective coating

225. Question Result, ID, References Sat, TD.COAT.NEWPIPEINSTALL.R, 192.491(c) (192.461(c), 192.461(d), 192.461(e), 192.483(a))

Question Text *Do records document that acceptable external protective coating materials have been used and the application and inspection was done in accordance with the written procedures?*

Assets Covered 86234 (1850)

226. Question Result, ID, References NA, TD.COAT.COATAPPLY.O, 192.461(a) (192.461(c), 192.461(d), 192.461(e), 192.319(b), 192.483(a))

Question Text *Is protective coating adequately applied?*

Assets Covered 86234 (1850)

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

## TD.CPEXPOSED: External Corrosion - Exposed Pipe

227. Question Result, ID, References NA, TD.CPEXPOSED.EXPOSEINSPECT.R, 192.491(c) (192.459)

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

Assets Covered 86234 (1850)

Result Notes No pipe exposed during this inspection period

228. Question Result, ID, References NA, TD.CPEXPOSED.EXPOSEINSPECT.O, 192.459

Question Text *Is exposed buried piping examined for corrosion and deteriorated coating?*

Assets Covered 86234 (1850)

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

229. Question Result, ID, References NA, TD.CPEXPOSED.EXTCORRODEEVAL.R, 192.491(c) (192.485(a), 192.485(b), 192.485(c))

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

Assets Covered 86234 (1850)

Result Notes No know externally corroded pipe

230. Question Result, ID, References NA, TD.CPEXPOSED.EXTCORRODREPAIR.R, 192.491(c) (192.485(a), 192.485(b), 192.485(c))

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 86234 (1850)

Result Notes No evidence of externally corroded pipe

231. Question Result, ID, References Sat, TD.CP.RECORDS.R, 192.491(a) (also presented in: TD.CPMONITOR, TD.CP)

Question Text *Do records indicate the location of all items listed in 192.491(a)?*

Assets Covered 86234 (1850)

## TD.ICP: Internal Corrosion - Preventive Measures

232. Question Result, ID, References NA, TD.ICP.EXAMINE.R, 192.491(c) (192.475(a), 192.475(b))

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

Assets Covered 86234 (1850)

Result Notes No pipe removed during this inspection period

233. Question Result, ID, References NA, TD.ICP.EXAMINE.O, 192.475(a) (192.475(b))

Question Text *Is removed pipe examined for evidence of internal corrosion?*

Assets Covered 86234 (1850)

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

234. Question Result, ID, References NA, TD.ICP.EVALUATE.R, 192.491(c) (192.485(c))

Question Text *Do records document adequate evaluation of internally corroded pipe?*

Assets Covered 86234 (1850)

Result Notes No evidence of internal corrosion

235. Question Result, ID, References NA, TD.ICP.REPAIR.R, 192.485(a) (192.485(b))

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

Assets Covered 86234 (1850)

Result Notes No evidence of internal corrosion

## TD.ICCG: Internal Corrosion - Corrosive Gas

236. Question Result, ID, References NA, TD.ICCG.CORRGAS.R, 192.491(c) (192.475(a))

Question Text *Do the records demonstrate that the corrosive effect of the gas in the pipeline has been investigated and if determined to be corrosive, steps be taken to minimize internal corrosion?*

Assets Covered 86234 (1850)

Result Notes Transporting a non-corrosive gas

237. Question Result, ID, References NA, TD.ICCG.CORRGASACTION.R, 192.491(c) (192.477)

Question Text *Do records document the actions taken when corrosive gas is being transported by pipeline?*

Assets Covered 86234 (1850)

Result Notes Transporting a non-corrosive gas

238. Question Result, ID, References NA, TD.ICCG.CORRGASACTION.O, 192.477

Question Text *Are adequate actions taken when corrosive gas is being transported by pipeline?*

Assets Covered 86234 (1850)

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

## TD.SCC: Stress Corrosion Cracking

239. Question Result, ID, References NA, TD.SCC.SCCIM.R, 192.947(d) (192.917(a)(1))

Question Text *Do integrity management program records document results of studies to identify and evaluate stress corrosion cracking threats to each covered pipeline segment?*

Assets Covered 86234 (1850)

Result Notes Not susceptible to SCC

240. Question Result, ID, References NA, TD.SCC.SCCREPAIR.R, 192.709(a) (192.703(b))

Question Text *Do records document that the operator has properly remediated any occurrences of SCC?*

Assets Covered 86234 (1850)

Result Notes Not susceptible to SCC

## TQ.PROT9: OQ Protocol 9

241. Question Result, ID, References NA, TQ.PROT9.CORRECTION.O, 192.801(a) (192.809(a))

Question Text *Have potential issues identified by the OQ plan inspection process been corrected at the operational level?*

Assets Covered 86234 (1850)

Result Notes No such event occurred, or condition existed, in the scope of inspection review.

242. Question Result, ID, References Sat, TQ.PROT9.TASKPERFORMANCE.O, 192.801(a) (192.809(a))

Question Text *Verify the qualified individuals performed the observed covered tasks in accordance with the operator's processes or operator approved contractor processes.*

Assets Covered 86234 (1850)

Result Notes Reviewed OQs for Mike Wendel, Scott Moon and Larry Chapman

243. Question Result, ID, References Sat, TQ.PROT9.QUALIFICATIONSTATUS.O, 192.801(a) (192.809(a))

Question Text *Verify the individuals performing the observed covered tasks are currently qualified to perform the covered tasks.*

Assets Covered 86234 (1850)

Result Notes Reviewed OQs for Mike Wendel, Scott Moon and Larry Chapman

244. Question Result, ID, References Sat, TQ.PROT9.AOCRECOG.O, 192.801(a) (192.809(a))

Question Text *Verify the individuals performing covered tasks are cognizant of the AOCs that are applicable to the tasks observed.*

Assets Covered 86234 (1850)

245. Question Result, ID, References Sat, TQ.PROT9.VERIFYQUAL.O, 192.801(a) (192.809(a))

Question Text *Observe in the field (job site, local office, etc.) that the foreman/supervisor/manager has verified the qualification of the individual performing the task, that the qualification records are current, and ensure the personal identification of all individuals performing covered tasks are checked, prior to task performance.*

Assets Covered 86234 (1850)

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Report Parameters: Results: all

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.