

Inspection Output (IOR)

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Inspection Information

Inspection Name	Solvay Section 114	Operator(s)	SOLVAY CHEMICALS, INC. (32399)	Plan Submitted	03/04/2022
Status	PLANNED	Lead	Scott Rukke	Plan Approval	03/04/2022 by Sean Mayo
Start Year	2022	Team Members	David Cullom, Dennis Ritter, Lex Vinsel, Anthony Dorrrough, Derek Norwood, Scott Anderson, Darren Tinnerstet	All Activity Start	03/04/2022
System Type	GT	Observer(s)	Deborah Becker	All Activity End	03/04/2022
Protocol Set ID	GT.2022.02	Director	Sean Mayo	Inspection Submitted	--
				Inspection Approval	--

Inspection Summary

Inspection Scope and Summary

This is a Solvay Chemicals Pipes Act of 2020 Section 114 inspection.

Assets:

SYSTEM DESCRIPTION

Solvay Pipeline	Designation:	6"	GB-AA11,	per	Solvay	Pipe
Specification						240.01-700
Pipe Material:	6"	Schedule	40	ASTM	A53-B	Seamless
Pipe Length:	~ 500	feet, see	attached	drawing	SK-393	(Attachment F)
Normal Operating Pressure:		60	psig	@		60°F
Maximum Allowable Operating Pressure:			1775	(MAOP):	150	psig
Hoop Stress:						psig
% Specified Minimum Yield Strength (SMYS):						5.1%
Class Location:	1	(per DOT Pipeline Safety Regulations, Section 192.5)				
Pipeline Classification:		Transmission Line	(per WUTC			determination)
Operator ID:	32399					

Facilities visited and Total AFOD

This inspection was conducted remotely.

Summary of Significant Findings

This inspection determined that Solvay's hydrogen pipeline is non jurisdictional to Section 114 requirements.

Primary Operator contacts and/or participants

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Longview, WA 98632

Scope (Assets)

#	Short Label	Long Label	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Inspected	Total	Required % Complete
1.	Solvay Section 114	Solvay Section 114	other	Solvay 32399	Bottle/Pipe - Holders Vault Service Line Gas Storage Field (Aboveground) Offshore GOM OCS Cast or Ductile Iron Copper Pipe Aluminum/Amphoteric Plastic Pipe AMAOP CDA Abandoned	21	21	21	21	100.0%

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

Plans

#	Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent	Notes
1.	Solvay Section 114	--	114.GT	P, R, O, S	Detail	--

Plan Implementations

#	Activity Name	SMART Act#	Start Date	End Date	Focus Directives	Involved Groups/Subgroups	Asset s	Qst Type(s)	Planned	Required	Inspected	Total	Required % Complete
1.	Form review in office	--	03/04/2022	03/04/2022	--	all planned questions	all assets	all types	21	21	21	21	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, 21 results)

55 (instead of 21) results are listed due to re-presentation of questions in more than one sub-group.

114.GT: Section 114 - Gas Transmission

1. Question Result, ID, References **NIC, SRN.114.INSPECTCVRG.S**, (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *What are your assets comprised of?*

Assets Covered **Solvay Section 114**

Result Notes **Solvay does not transport natural gas. They do use natural gas for feedstock but it is transported to Solvay by another operator.**

Solvay only transports hydrogen gas through it's pipeline system.

SOLVAY'S SYSTEM DESCRIPTION

Solvay Pipeline Designation: 6" GB-AA11, per Solvay Pipe Specification 240.01-700
 Pipe Material: 6" Schedule 40 ASTM A53-B Seamless
 Pipe Length: ~ 500 feet, see attached drawing SK-393 (Attachment F)
 Normal Operating Pressure: 60 psig @ 60°F
 Maximum Allowable Operating Pressure (MAOP): 150 psig
 Hoop Stress: 1775 psig
 % Specified Minimum Yield Strength (SMYS): 5.1%
 Class Location: 1 (per DOT Pipeline Safety Regulations, Section 192.5)
 Pipeline Classification: Transmission Line (per WUTC determination)
 Operator ID: 32399

2. Question Result, ID, References **NA, SRN.114.GASTRANSPORT.S**, (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?*

Assets Covered **Solvay Section 114**

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

3. Question Result, ID, References **NA, SRN.114.DRIVERENGINE.S**, (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do you use natural gas-fueled drivers or engines to compress natural gas?*

Assets Covered **Solvay Section 114**

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

4. Question Result, ID, References **NA, SRN.114.NGUSE.S**, (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?*

Assets Covered **Solvay Section 114**

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

5. Question Result, ID, References **NA, 114.114.COMPRESSOR.P, 49 U.S.C. 60108(a)** (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?*

Assets Covered **Solvay Section 114**

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

6. Question Result, ID, References **NA, 114.114.DRIVERENGINE.P, 49 U.S.C. 60108(a)** (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?*

Assets Covered [Solvay Section 114](#)

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

7. Question Result, ID, References [NA, 114.114.LKRLSID.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.GGBOOST](#))

Question Text *Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system?*

Assets Covered [Solvay Section 114](#)

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

8. Question Result, ID, References [NA, 114.114.LKRLSVENT.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.UNGS](#), [114.GGBOOST](#))

Question Text *Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?*

Assets Covered [Solvay Section 114](#)

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

9. Question Result, ID, References [NA, 114.114.LKRLSUNEXPCTVENT.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.UNGS](#), [114.GGBOOST](#))

Question Text *Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?*

Assets Covered [Solvay Section 114](#)

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

10. Question Result, ID, References [NA, 114.114.LKRLSLKDATA.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.UNGS](#), [114.GGBOOST](#))

Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*

Assets Covered [Solvay Section 114](#)

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

11. Question Result, ID, References [NA, 114.114.LKRLSDETECTLK.P, 49 U.S.C. 60108\(a\)](#)

Question Text *Do procedures include instructions for personnel to detect leaks to help further reduce emission in stations and along the right of way?*

Assets Covered [Solvay Section 114](#)

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

12. Question Result, ID, References [NA, 114.114.LKMITGRPRREPAIR.P, 49 U.S.C. 60108\(a\)](#)

Question Text *Do procedures provide alternatives to cutouts (to reduce emissions)?*

Assets Covered [Solvay Section 114](#)

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

13. Question Result, ID, References [NA, 114.114.TESTESD.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.GGBOOST](#))

Question Text *Do procedures contain measures for ensuring ESD testing minimizes natural gas releases?*

Assets Covered [Solvay Section 114](#)

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

14. Question Result, ID, References [NA, 114.114.TESTRELIEFVLV.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.UNGS](#), [114.GGBOOST](#))

Question Text *Do relief valve testing procedures include measures to minimize natural gas releases?*

Assets Covered [Solvay Section 114](#)

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

15. Question Result, ID, References [NA, 114.114.FLARE.P, 49 U.S.C. 60108\(a\)](#) (also presented in: [114.GGBOOST](#))

Question Text *Do procedures for flaring from pipeline facilities for transporting natural gas include measures for minimization of natural gas emissions?*

Assets Covered Solvay Section 114

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

16. Question Result, ID, References NA, 114.114.GNLDSGNCNFG.P, 49 U.S.C. 60108(a) (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?*

Assets Covered Solvay Section 114

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

17. Question Result, ID, References NA, 114.114.GNLCMPSTATION.P, 49 U.S.C. 60108(a) (also presented in: 114.GGBOOST)

Question Text *Do procedures contain mechanisms for minimizing natural gas emissions from operations and maintenance activities within a compressor station (i.e., beyond compressor/driver-specific procedures)?*

Assets Covered Solvay Section 114

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

18. Question Result, ID, References NA, 114.LEAKPRONE.LKRLS.P, 49 U.S.C. 60108(a) (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?*

Assets Covered Solvay Section 114

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

19. Question Result, ID, References NA, 114.LEAKPRONE.LKRLSLKDATA.P, 49 U.S.C. 60108(a) (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*

Assets Covered Solvay Section 114

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

20. Question Result, ID, References NA, 114.LEAKPRONE.LKMITGRPEXAMPLE.P, 49 U.S.C. 60108(a) (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?*

Assets Covered Solvay Section 114

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

21. Question Result, ID, References NA, 114.LEAKPRONE.LKMITGRPROTHER.P, 49 U.S.C. 60108(a) (also presented in: 114.UNGS, 114.GGBOOST)

Question Text *Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?*

Assets Covered Solvay Section 114

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

114.UNGS: Section 114 - Underground Natural Gas Storage

22. Question Result, ID, References NIC, SRN.114.INSPECTCVRG.S, (also presented in: 114.GT, 114.GGBOOST)

Question Text *What are your assets comprised of?*

Assets Covered Solvay Section 114

Result Notes Solvay does not transport natural gas. They do use natural gas for feedstock but it is transported to Solvay by another operator.

Solvay only transports hydrogen gas through it's pipeline system.

SOLVAY'S SYSTEM DESCRIPTION

Solvay Pipeline Designation: 6" GB-AA11, per Solvay Pipe Specification 240.01-700
 Pipe Material: 6" Schedule 40 ASTM A53-B Seamless
 Pipe Length: ~ 500 feet, see attached drawing SK-393 (Attachment F)
 Normal Operating Pressure: 60 psig @ 60°F
 Maximum Allowable Operating Pressure (MAOP): 150 psig
 Hoop Stress: 1775 psig
 % Specified Minimum Yield Strength (SMYS): 5.1%
 Class Location: 1 (per DOT Pipeline Safety Regulations, Section 192.5)
 Pipeline Classification: Transmission Line (per WUTC determination)
 Operator ID: 32399

- 23. Question Result, ID, References **NA, SRN.114.GASTRANSPORT.S**, (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- 24. Question Result, ID, References **NA, SRN.114.DRIVERENGINE.S**, (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do you use natural gas-fueled drivers or engines to compress natural gas?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- 25. Question Result, ID, References **NA, SRN.114.NGUSE.S**, (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
- 26. Question Result, ID, References **NA, 114.114.COMPRESSOR.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
- 27. Question Result, ID, References **NA, 114.114.DRIVERENGINE.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
- 28. Question Result, ID, References **NA, 114.114.LKRLSVENT.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
- 29. Question Result, ID, References **NA, 114.114.LKRLSUNEXPCTVENT.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**

30. Question Result, ID, References **NA, 114.114.LKRLSLKDATA.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
31. Question Result, ID, References **NA, 114.114.TESTRELIEFVLV.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do relief valve testing procedures include measures to minimize natural gas releases?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
32. Question Result, ID, References **NA, 114.114.GNLDSGNCNFG.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
33. Question Result, ID, References **NA, 114.LEAKPRONE.LKRLS.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
34. Question Result, ID, References **NA, 114.LEAKPRONE.LKRLSLKDATA.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
35. Question Result, ID, References **NA, 114.LEAKPRONE.LKMITGRPREXAMPLE.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**
36. Question Result, ID, References **NA, 114.LEAKPRONE.LKMITGRPROTHER.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.GGBOOST)
 Question Text *Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?*
 Assets Covered **Solvay Section 114**
 Result Notes **No such requirement existed in the scope of inspection review.**

114.GGBOOST: Section 114 - Gas Gathering & Boosting

37. Question Result, ID, References **NIC, SRN.114.INSPECTCVRG.S,** (also presented in: 114.GT, 114.UNGS)
 Question Text *What are your assets comprised of?*
 Assets Covered **Solvay Section 114**
 Result Notes **Solvay does not transport natural gas. They do use natural gas for feedstock but it is transported to Solvay by another operator.**

Solvay only transports hydrogen gas through it's pipeline system.

SOLVAY'S SYSTEM DESCRIPTION

Solvay Pipeline Designation: 6" GB-AA11, per Solvay Pipe Specification 240.01-700
Pipe Material: 6" Schedule 40 ASTM A53-B Seamless
Pipe Length: ~ 500 feet, see attached drawing SK-393 (Attachment F)
Normal Operating Pressure: 60 psig @ 60°F
Maximum Allowable Operating Pressure (MAOP): 150 psig
Hoop Stress: 1775 psig
% Specified Minimum Yield Strength (SMYS): 5.1%
Class Location: 1 (per DOT Pipeline Safety Regulations, Section 192.5)
Pipeline Classification: Transmission Line (per WUTC determination)
Operator ID: 32399

38. Question Result, ID, References **NA, SRN.114.GASTRANSPORT.S**, (also presented in: 114.GT, 114.UNGS)
Question Text *Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?*
Assets Covered **Solvay Section 114**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
39. Question Result, ID, References **NA, SRN.114.DRIVERENGINE.S**, (also presented in: 114.GT, 114.UNGS)
Question Text *Do you use natural gas-fueled drivers or engines to compress natural gas?*
Assets Covered **Solvay Section 114**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
40. Question Result, ID, References **NA, SRN.114.NGUSE.S**, (also presented in: 114.GT, 114.UNGS)
Question Text *Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?*
Assets Covered **Solvay Section 114**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
41. Question Result, ID, References **NA, 114.114.COMPRESSOR.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.UNGS)
Question Text *Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?*
Assets Covered **Solvay Section 114**
Result Notes **No such requirement existed in the scope of inspection review.**
42. Question Result, ID, References **NA, 114.114.DRIVERENGINE.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.UNGS)
Question Text *Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?*
Assets Covered **Solvay Section 114**
Result Notes **No such requirement existed in the scope of inspection review.**
43. Question Result, ID, References **NA, 114.114.LKRLSID.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT)
Question Text *Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system?*
Assets Covered **Solvay Section 114**
Result Notes **No such requirement existed in the scope of inspection review.**
44. Question Result, ID, References **NA, 114.114.LKRLSVENT.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.UNGS)
Question Text *Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?*

Assets Covered Solvay Section 114

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

45. Question Result, ID, References NA, 114.114.LKRLSUNEXPCTVENT.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)
Question Text *Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
46. Question Result, ID, References NA, 114.114.LKRLSLKDATA.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)
Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
47. Question Result, ID, References NA, 114.114.TESTESD.P, 49 U.S.C. 60108(a) (also presented in: 114.GT)
Question Text *Do procedures contain measures for ensuring ESD testing minimizes natural gas releases?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
48. Question Result, ID, References NA, 114.114.TESTRELIEFVLV.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)
Question Text *Do relief valve testing procedures include measures to minimize natural gas releases?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
49. Question Result, ID, References NA, 114.114.FLARE.P, 49 U.S.C. 60108(a) (also presented in: 114.GT)
Question Text *Do procedures for flaring from pipeline facilities for transporting natural gas include measures for minimization of natural gas emissions?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
50. Question Result, ID, References NA, 114.114.GNLDSGNCNFG.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)
Question Text *Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
51. Question Result, ID, References NA, 114.114.GNLCMPSTATION.P, 49 U.S.C. 60108(a) (also presented in: 114.GT)
Question Text *Do procedures contain mechanisms for minimizing natural gas emissions from operations and maintenance activities within a compressor station (i.e., beyond compressor/driver-specific procedures)?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
52. Question Result, ID, References NA, 114.LEAKPRONE.LKRLS.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)
Question Text *What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?*
Assets Covered Solvay Section 114
Result Notes No such requirement existed in the scope of inspection review.
53. Question Result, ID, References NA, 114.LEAKPRONE.LKRLSLKDATA.P, 49 U.S.C. 60108(a) (also presented in: 114.GT, 114.UNGS)

Question Text *Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?*

Assets Covered **Solvay Section 114**

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

54. Question Result, ID, References **NA, 114.LEAKPRONE.LKMITGRPREXAMPLE.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.UNGS)

Question Text *Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?*

Assets Covered **Solvay Section 114**

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

55. Question Result, ID, References **NA, 114.LEAKPRONE.LKMITGRPROTHER.P, 49 U.S.C. 60108(a)** (also presented in: 114.GT, 114.UNGS)

Question Text *Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?*

Assets Covered **Solvay Section 114**

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

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.

Inspection Results (IRR)

Generated on 2022.March.04 15:44

- Solvay Section 114 (55)

Inspection Results Report (ALL Results) - Scp_PK Solvay Section 114

Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
1.	Solvay Section 114	NIC (3)	114.GT	1.	SRN.114.INSPECTCVRG.S		What are your assets comprised of?
2.	Solvay Section 114	NA (3)	114.GT	2.	SRN.114.GASTRANSPORT.S		Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?
3.	Solvay Section 114	NA (3)	114.GT	3.	SRN.114.DRIVERENGINE.S		Do you use natural gas-fueled drivers or engines to compress natural gas?
4.	Solvay Section 114	NA (3)	114.GT	4.	SRN.114.NGUSE.S		Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?
5.	Solvay Section 114	NA (3)	114.GT	5.	114.114.COMPRESSOR.P	49 U.S.C. 60108(a)	Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?
6.	Solvay Section 114	NA (3)	114.GT	6.	114.114.DRIVERENGINE.P	49 U.S.C. 60108(a)	Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?
7.	Solvay Section 114	NA (2)	114.GT	7.	114.114.LKRLSID.P	49 U.S.C. 60108(a)	Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system?
8.	Solvay Section 114	NA (3)	114.GT	8.	114.114.LKRLSVENT.P	49 U.S.C. 60108(a)	Do procedures identify measures for minimizing natural gas release volumes associated

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
							with non-emergency venting and blowdowns from operations and maintenance?
9.	Solvay Section 114	NA	(3)	114.GT	9. 114.114.LKRLSUNEXPCTVENT.P	49 U.S.C. 60108(a)	Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?
10.	Solvay Section 114	NA	(3)	114.GT	10. 114.114.LKRLSLKDATA.P	49 U.S.C. 60108(a)	Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
11.	Solvay Section 114	NA		114.GT	11. 114.114.LKRLSDETECTLK.P	49 U.S.C. 60108(a)	Do procedures include instructions for personnel to detect leaks to help further reduce emission in stations and along the right of way?
12.	Solvay Section 114	NA		114.GT	12. 114.114.LKMITGRPRREPAIR.P	49 U.S.C. 60108(a)	Do procedures provide alternatives to cutouts (to reduce emissions)?
13.	Solvay Section 114	NA	(2)	114.GT	13. 114.114.TESTESD.P	49 U.S.C. 60108(a)	Do procedures contain measures for ensuring ESD testing minimizes natural gas releases?
14.	Solvay Section 114	NA	(3)	114.GT	14. 114.114.TESTRELIEFVLV.P	49 U.S.C. 60108(a)	Do relief valve testing procedures include measures to minimize natural gas releases?
15.	Solvay Section 114	NA	(2)	114.GT	15. 114.114.FLARE.P	49 U.S.C. 60108(a)	Do procedures for flaring from pipeline facilities for transporting natural gas include measures for minimization of natural gas emissions?
16.	Solvay Section 114	NA	(3)	114.GT	16. 114.114.GNLDSGNCNFG.P	49 U.S.C. 60108(a)	Do operation and maintenance

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
							procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?
17.	Solvay Section 114	NA	(2)	114.GT	17. 114.114.GNLCMPSTATION.P	49 U.S.C. 60108(a)	Do procedures contain mechanisms for minimizing natural gas emissions from operations and maintenance activities within a compressor station (i.e., beyond compressor/driver-specific procedures)?
18.	Solvay Section 114	NA	(3)	114.GT	18. 114.LEAKPRONE.LKRLS.P	49 U.S.C. 60108(a)	What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?
19.	Solvay Section 114	NA	(3)	114.GT	19. 114.LEAKPRONE.LKRLSLKDATA.P	49 U.S.C. 60108(a)	Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
20.	Solvay Section 114	NA	(3)	114.GT	20. 114.LEAKPRONE.LKMITGRPREXAMPLE.P	49 U.S.C. 60108(a)	Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?
21.	Solvay Section 114	NA	(3)	114.GT	21. 114.LEAKPRONE.LKMITGRPROTHER.P	49 U.S.C. 60108(a)	Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
							identified in Section 114?
22.	Solvay Section 114	NIC	(3)	114.UNGS	1. SRN.114.INSPECTCVRG.S		What are your assets comprised of?
23.	Solvay Section 114	NA	(3)	114.UNGS	2. SRN.114.GASTRANSPORT.S		Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?
24.	Solvay Section 114	NA	(3)	114.UNGS	3. SRN.114.DRIVERENGINE.S		Do you use natural gas-fueled drivers or engines to compress natural gas?
25.	Solvay Section 114	NA	(3)	114.UNGS	4. SRN.114.NGUSE.S		Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?
26.	Solvay Section 114	NA	(3)	114.UNGS	5. 114.114.COMPRESSOR.P	49 U.S.C. 60108(a)	Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?
27.	Solvay Section 114	NA	(3)	114.UNGS	6. 114.114.DRIVERENGINE.P	49 U.S.C. 60108(a)	Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?
28.	Solvay Section 114	NA	(3)	114.UNGS	7. 114.114.LKRLSVENT.P	49 U.S.C. 60108(a)	Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?
29.	Solvay Section 114	NA	(3)	114.UNGS	8. 114.114.LKRLSUNEXPCTVENT.P	49 U.S.C. 60108(a)	Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
30.	Solvay Section 114	NA	(3)	114.UNGS	9.	114.114.LKRLSLKDATA.P	49 U.S.C. 60108(a) Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
31.	Solvay Section 114	NA	(3)	114.UNGS	13.	114.114.TESTRELIEFVLV.P	49 U.S.C. 60108(a) Do relief valve testing procedures include measures to minimize natural gas releases?
32.	Solvay Section 114	NA	(3)	114.UNGS	14.	114.114.GNLDSGNCNFG.P	49 U.S.C. 60108(a) Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?
33.	Solvay Section 114	NA	(3)	114.UNGS	15.	114.LEAKPRONE.LKRLS.P	49 U.S.C. 60108(a) What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?
34.	Solvay Section 114	NA	(3)	114.UNGS	16.	114.LEAKPRONE.LKRLSLKDATA.P	49 U.S.C. 60108(a) Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
35.	Solvay Section 114	NA	(3)	114.UNGS	17.	114.LEAKPRONE.LKMITGRPREXAMPLE.P	49 U.S.C. 60108(a) Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
							with known leak issues?
36.	Solvay Section 114	NA	(3)	114.UNGS	18.	114.LEAKPRONE.LKMITGRPROTHER.P	49 U.S.C. 60108(a) Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?
37.	Solvay Section 114	NIC	(3)	114.GGBOOST	1.	SRN.114.INSPECTCVRG.S	What are your assets comprised of?
38.	Solvay Section 114	NA	(3)	114.GGBOOST	2.	SRN.114.GASTRANSPORT.S	Do you transport natural gas as a specific commodity (i.e., not a byproduct or constituent of another substance)?
39.	Solvay Section 114	NA	(3)	114.GGBOOST	3.	SRN.114.DRIVERENGINE.S	Do you use natural gas-fueled drivers or engines to compress natural gas?
40.	Solvay Section 114	NA	(3)	114.GGBOOST	4.	SRN.114.NGUSE.S	Do you use natural gas for fuel or power appurtenances or instrument gas on regulated facilities?
41.	Solvay Section 114	NA	(3)	114.GGBOOST	5.	114.114.COMPRESSOR.P	49 U.S.C. 60108(a) Do the maintenance and operations procedures for compressors include provisions to minimize fugitive natural gas losses?
42.	Solvay Section 114	NA	(3)	114.GGBOOST	6.	114.114.DRIVERENGINE.P	49 U.S.C. 60108(a) Do maintenance procedures include measures for monitoring and correcting incomplete combustion of natural gas in driver or engine exhausts and taking corrective action if identified?
43.	Solvay Section 114	NA	(2)	114.GGBOOST	7.	114.114.LKRLSID.P	49 U.S.C. 60108(a) Do procedures provide a methodology for identifying sources of fugitive natural gas emissions in the system?

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Row	Assets	Result (Note 1)	Sub-Group	Qs	Question ID	References	Question Text
44.	Solvay Section 114	NA	(3)	114.GGBOOST	8. 114.114.LKRLSVENT.P	49 U.S.C. 60108(a)	Do procedures identify measures for minimizing natural gas release volumes associated with non-emergency venting and blowdowns from operations and maintenance?
45.	Solvay Section 114	NA	(3)	114.GGBOOST	9. 114.114.LKRLSUNEXPCTVENT.P	49 U.S.C. 60108(a)	Do procedures provide for investigation of any unanticipated vented releases of natural gas, and if so, what are the associated actions?
46.	Solvay Section 114	NA	(3)	114.GGBOOST	10. 114.114.LKRLSLKDATA.P	49 U.S.C. 60108(a)	Do procedures include a methodology to collect, retain and analyze detailed information from detected natural gas leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
47.	Solvay Section 114	NA	(2)	114.GGBOOST	11. 114.114.TESTESD.P	49 U.S.C. 60108(a)	Do procedures contain measures for ensuring ESD testing minimizes natural gas releases?
48.	Solvay Section 114	NA	(3)	114.GGBOOST	12. 114.114.TESTRELIEFVLV.P	49 U.S.C. 60108(a)	Do relief valve testing procedures include measures to minimize natural gas releases?
49.	Solvay Section 114	NA	(2)	114.GGBOOST	13. 114.114.FLARE.P	49 U.S.C. 60108(a)	Do procedures for flaring from pipeline facilities for transporting natural gas include measures for minimization of natural gas emissions?
50.	Solvay Section 114	NA	(3)	114.GGBOOST	14. 114.114.GNLDSGNCNFG.P	49 U.S.C. 60108(a)	Do operation and maintenance procedures contain mechanisms for identifying potential design/configuration changes for reducing natural gas releases?

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Row	Assets	Result (Note 1)	Qs Sub-Group	Question ID	References	Question Text
51.	Solvay Section 114	NA	(2)	114.GGBOOST	15. 114.114.GNLCMPSTATION.P	49 U.S.C. 60108(a) Do procedures contain mechanisms for minimizing natural gas emissions from operations and maintenance activities within a compressor station (i.e., beyond compressor/driver-specific procedures)?
52.	Solvay Section 114	NA	(3)	114.GGBOOST	16. 114.LEAKPRONE.LKRLS.P	49 U.S.C. 60108(a) What procedures are in place to monitor for and identify pipe segments that are leak-prone, and what criteria (e.g., frequency of leak or failure events) are specified for determining a pipeline segment is leak-prone?
53.	Solvay Section 114	NA	(3)	114.GGBOOST	17. 114.LEAKPRONE.LKRLSLKDATA.P	49 U.S.C. 60108(a) Do procedures include a methodology to collect, retain and analyze detailed information from detected leaks, including those eliminated by lubrication, adjustment, tightening or otherwise below thresholds for regulatory reporting?
54.	Solvay Section 114	NA	(3)	114.GGBOOST	18. 114.LEAKPRONE.LKMITGRPREXAMPLE.P	49 U.S.C. 60108(a) Do procedures identify cast iron, unprotected steel, wrought iron, and vintage plastic pipe with known leak issues?
55.	Solvay Section 114	NA	(3)	114.GGBOOST	19. 114.LEAKPRONE.LKMITGRPROTHER.P	49 U.S.C. 60108(a) Do procedures clearly define a process to address replacement or remediation of pipe segments with known leak issues beyond those specifically identified in Section 114?

1. Result is repeated (N) times in this report due to re-presentation of the question in multiple sub-groups.

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.