

# Inspection Output (IOR)

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## Report Filters

Assets All, and including items not linked to any asset.

Results All

## Inspection Information

Inspection Name	8993 Cardinal Section 114	Operator(s)	CARDINAL FG (32176)	Plan Submitted	01/14/2025
Status	LOCKED	Lead	Anthony Dorrough	Plan Approval	01/15/2025 by Dennis Ritter
Start Year	2025	Team Members	David Cullom, Derek Norwood, Scott Anderson, Tom Green, Jason Hoxit	All Activity Start	04/16/2025
System Type	GT	Supervisor	Dennis Ritter	All Activity End	04/17/2025
Protocol Set ID	WA.GT.2024.02	Director	Scott Rukke	Inspection Submitted	04/25/2025
				Inspection Approval	06/26/2025 by Scott Rukke

## Inspection Summary

### Inspection Scope and Summary

The Cardinal Pipeline is comprised of 6 inch diameter (NPS-6), API 5L, X-52 ERW steel pipe with a nominal wall thickness of 0.280 inches. The Cardinal Pipeline is entirely located in Lewis County Washington beginning at the Williams Northwest Pipeline Interconnection at the Chehalis Compressor Station and ending at the Cardinal Glass Facility property line. The overall length of the Pipeline is approximately 3.25 miles. Per PHMSA guidelines the WUTC jurisdictional boundary is considered the Cardinal property line. The Cardinal Pipeline contains no mainline valves beyond those at the Williams interconnection and the Cardinal delivery point.

### Facilities visited and Total AFOD=1

Wed Apr 23 Online Via MS Teams & Exit Interview

### Summary of Significant Findings

There were no significant findings.

### Primary Operator contacts and/or participants

Micah Young/Mechanical Engineer/Cardinal FG myoung@cardinalcorp.com (360) 242-4296

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Tom Green/Pipeline Safety Engineer/UTC (observer) thomas.green@utc.wa.gov (360) 827-0483

### Operator executive contact and mailing address for any official correspondence

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## Scope (Assets)

#	Short Name	Long Name	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Total Inspected	Required % Complete
1.	8993 Cardinal Section 114	<No Long Name>	unit	--	Compressor Stations Bottle/Pipe - Holders Vault Service Line Gas Storage Field (Aboveground) Offshore GOM	21	21	21	100.0%

8993 Cardinal Section 114

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# Short Name	Long Name	Asset Type	Asset IDs	Excluded Topics	Planned	Required	Inspected	Total	Required % Complete
				OCS Cast or Ductile Iron Copper Pipe Aluminum/Amphoteric Plastic Pipe AMAOP CDA Abandoned					

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

## Plans

# Plan Assets	Focus Directives	Involved Groups/Subgroups	Qst Type(s)	Extent	Notes
1. 8993 Cardinal Section 114	--	114.GGBOOST, 114.GT	P, R, O, S	Detail	--

## Plan Implementations

# Activity Name	SMART Act#	Start Date	End Date	Focus Directives	Involved Groups/Subgroups	Asset Types	Qst Type(s)	Planned	Required	Inspected	Total	Required % Complete
1 8993 Cardinal Section 114	--	04/16/2025	04/17/2025	--	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

No.	Entity	Form Name	Status	Date Completed	Activity Name	Asset
1.	Attendance List	8993 Cardinal Section 114	COMPLETED	04/25/2025	8993 Cardinal Section 114	8993 Cardinal Section 114

## 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 **8993 Cardinal Section 114**

Result Notes **3.00 miles per. classification study**

**6.625 inches OD**

**.280 inches Inside Wall**

**Grade X52**

2. Question Result, ID, References **NIC, 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 **8993 Cardinal Section 114**  
 Result Notes **No change since last audit (natural gas)**
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 **8993 Cardinal 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 **8993 Cardinal Section 114**  
 Result Notes **No such activity/condition was observed during the inspection.**
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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**  
 Result Notes **No such activity/condition was observed during the inspection.**
7. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.15 - Emissions Prevention**
8. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.14 - Leak Detection**
9. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention**

10. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
 Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention
11. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
 Located in OM - Section 7.7 - Leak Detection
12. Question Result, ID, References **Sat, 114.114.LKMITGRPRREPAIR.P, 49 U.S.C. 60108(a)**  
 Question Text *Do procedures provide alternatives to cutouts (to reduce emissions)?*  
 Assets Covered **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
 Located in OM - Section 5.15 - Alternatives to Cutouts - Permanent Repairs to Leaks (192.717)
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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**  
 Result Notes **No such activity/condition was observed during the inspection.**
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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 8993 Cardinal Section 114

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

19. Question Result, ID, **Sat, 114.LEAKPRONE.LKRLSLKDATA.P, 49 U.S.C. 60108(a)** (also presented in: 114.UNGS, References 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 8993 Cardinal Section 114

Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)

Located in OM - Section 7.14 - under Leak Data Collection & Analysis

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

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

Assets Covered 8993 Cardinal Section 114

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

21. Question Result, ID, **NA, 114.LEAKPRONE.LKMITGRPROTHER.P, 49 U.S.C. 60108(a)** (also presented in: 114.UNGS, References 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 8993 Cardinal Section 114

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

## **114.UNGS: Section 114 - Underground Natural Gas Storage**

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

Question Text *What are your assets comprised of?*

Assets Covered 8993 Cardinal Section 114

Result Notes 3.00 miles per. classification study

6.625 inches OD

.280 inches Inside Wall

Grade X52

23. Question Result, ID, **NIC, SRN.114.GASTRANSPORT.S,** (also presented in: 114.GT, 114.GGBOOST)  
References

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

Assets Covered 8993 Cardinal Section 114

Result Notes No change since last audit (natural gas)

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

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

Assets Covered 8993 Cardinal Section 114

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

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

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

Assets Covered 8993 Cardinal Section 114

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

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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114  
Result Notes No such activity/condition was observed during the inspection.

28. Question Result, ID, References Sat, 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 8993 Cardinal Section 114  
Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)

Located in OM - Section 7.14 - Leak Detection

29. Question Result, ID, References Sat, 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 8993 Cardinal Section 114  
Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)

Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention

30. Question Result, ID, References Sat, 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 8993 Cardinal Section 114  
Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)

Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention

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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114

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

34. Question Result, ID, References Sat, 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 8993 Cardinal Section 114

Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)

Located in OM - Section 7.14 - under Leak Data Collection & Analysis

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 8993 Cardinal Section 114

Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114

Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114

Result Notes 3.00 miles per. classification study

6.625 inches OD

.280 inches Inside Wall

Grade X52

38. Question Result, ID, References NIC, 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 8993 Cardinal Section 114

Result Notes No change since last audit (natural gas)

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 8993 Cardinal 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 8993 Cardinal Section 114

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

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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**  
 Result Notes **No such activity/condition was observed during the inspection.**
43. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.15 - Emissions Prevention**
44. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.14 - Leak Detection**
45. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention**
46. Question Result, ID, References **Sat, 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 **8993 Cardinal Section 114**  
 Result Notes **OM last revised - July 18, 2024 (staff reviewed revision log)**  
  
**Located in OM - Section 7.14 - Leak Detection & Section 7.15 - Emissions Prevention**
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 **8993 Cardinal Section 114**  
 Result Notes **No such relevant facilities/equipment 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 **8993 Cardinal Section 114**

Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114  
Result Notes No such activity/condition was observed during the inspection.
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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
51. Question Result, ID, References NA, 114.114.GNLCPSTATION.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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.
53. Question Result, ID, References Sat, 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 8993 Cardinal Section 114  
Result Notes OM last revised - July 18, 2024 (staff reviewed revision log)
- Located in OM - Section 7.14 - under Leak Data Collection & Analysis
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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment 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 8993 Cardinal Section 114  
Result Notes No such relevant facilities/equipment existed in the scope of inspection review.

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

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