

Inspection Output (IOR)

Generated on 2020.April.16 12:44

Inspection Information

| | | | | | |
|-----------------|-----------------------|--------------|---|----------------------|----------------------------|
| Inspection Name | NWN Transmission 8057 | Operator(s) | NORTHWEST NATURAL GAS CO (13840) | Plan Submitted | 11/22/2019 |
| Status | PLANNED | Lead | Scott Rukke | Plan Approval | 12/11/2019 by Joe Subsites |
| Start Year | 2020 | Team Members | David Cullom, Dennis Ritter, Lex Vinsel, Anthony Dorrough, Derek Norwood, Scott Anderson, Darren Tinnerstet | All Activity Start | 04/06/2020 |
| System Type | GT | Observer(s) | Deborah Becker, Rell Koizumi | All Activity End | 04/10/2020 |
| Protocol Set ID | GT.2019.01 | Supervisor | Joe Subsites | Inspection Submitted | -- |
| | | Director | Sean Mayo | Inspection Approval | -- |

Inspection Summary

This is a Transmission Headquarters asset inspection and will include an office records and procedural review along with a field inspection of transmission facilities.

The records review was started on March 18, 2020 and was primarily conducted electronically.

Much of this inspection will be conducted electronically through email and phone conversations due to Covid-19 and orders to stay at home.

This pipeline facility consists primarily of approximately 3.5 miles of 8-inch steel transmission line operating between 20% and 30%.

All records were reviewed electronically due to COVID-19. No in office visits were made.

Some records that were deemed sensitive to NWN were reviewed by Skype on 4/8/2020.

The field portion of the inspection was conducted on 4/15/2020:

Met with NWN at their Camas Gate Station @ 27712 NE 28th St, Camas WA at 8:30 am. Met with Compliance Technician Jaimie Lemke and Cathodic Protection Technician Dave Maynard. After inspecting the Camas Gate Station and taking cathodic protection readings we drove the entire transmission pipeline from the gate station to the end of the pipeline. We stopped at all installed cathodic protection test stations along the route and took CP readings, operated emergency valves and inspected the single bridge crossing.

No regulator stations were tested. Over-pressure protection and regulation is provided by Williams Pipeline West at the Camas Gate Station on the Williams side of the station. All other regulating stations were on the distribution side of the system.

Electronic records review was done by Skype starting on 4/8/2020.

Some records were emailed prior to 4/8/2020 and were reviewed in the office in lieu of meeting in the operators office due to Covid-19 concerns.

The field portion of the inspection was conducted on 4/15/2020.

The exit interview was done by email on 4/16/2020 due to Covid-19 concerns.

All time entered for this inspection under "procedures review" was actually time that would have been spent in the field in the operators office reviewing records. This was done due to Covid-19 concerns.

Compliance contact:

Jaimie Lemke

Jaime.lemke@nwnatural.com

NW Natural – Code Compliance Specialist

503.226.4211 x4316

Samantha Rookstool

samantha.rookstool@nwnatural.com

Off: (503) 226-4211 x4366

Scope (Assets)

| # | Short Label | Long Label | Asset Type | Asset IDs | Excluded Topics | Planned | Required | Inspected | Total | Required % Complete |
|----|-----------------------|------------------------------------|------------|-----------|-----------------|---------|----------|-----------|-------|---------------------|
| 1. | NWN Transmission 8057 | Northwest Natural Gas-Transmission | unit | 88966 | -- | 129 | 129 | 129 | 129 | 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. | NWN Transmission 8057 | n/a | MO.GOODOR, EP.ERG.PRESSREDUCESD.P, EP.ERG.AUTHORITIES.P, EP.ERG.OUTAGERESTORE.P, EP.ERG.INCIDENTACTIONS.P, EP.ERG.INCIDENTANALYSIS.P, EP.ERG.INCIDENTANALYSIS.R, EP.ERG.POSTEVNTREVIEW.P, EP.ERG.REVIEW.R, EP.ERG.POSTEVNTREVIEW.R, EP.ERG.LIAISON.P, EP.ERG.LIAISON.R, EP.ERG.INCIDENTDATA.P, EP.ERG.NOTICES.P, EP.ERG.NOTICES.R, EP.ERG.COMMSYS.P, EP.ERG.RESPONSE.P, EP.ERG.READINESS.P, TQ.QUIM, TQ.QU.CORROSION.P, TQ.QU.CORROSION.R, TQ.QU.HOTTAPQUAL.P, TQ.QU.HOTTAPQUAL.R, TQ.OO.OOPLAN.P, TQ.OO.OOCONTRACTOR.P, TQ.OO.OOCONTRACTOREQUIV.P, TQ.OO.OTHERENTITY.R, TQ.OO.ABNORMAL.P, TQ.OO.ABNORMAL.R, TQ.OO.ABNORMAL.O, TQ.OO.PERFMONITOR.P, TQ.OO.OOPLAN.O, TQ.OO.MOC.P, TQ.OO.REEVALINTERVAL.P, TQ.OO.CHANGENOTIFY.P, TQ.OO.CHANGERECORD.R, TQ.OO.OOCONTRACTOR.R, TQ.OO.RECORDS.R, TQ.OO.TRAINING.P, TQ.OO.TRAINING.R, TQ.OO.OOPLANCONTRACTOR.P, TQ.PROT9.QUALIFICATIONSTATUS.O, RPT.RR.ANNUALREPORT.R, | P, R, O, S | Detail | |

| # Plan Assets | Focus Directives | Involved Groups/Subgroups | Qst Type(s) | Extent | Notes |
|---------------|------------------|--|-------------|--------|-------|
| | | RPT.RR.INCIDENTREPORTSUPP.P, RPT.RR.SRCR.P, RPT.RR.SRCR.R, RPT.RR.NPMSANNUAL.R, RPT.RR.IMMEDREPORT.P, RPT.RR.IMMEDREPORT.R, RPT.RR.INCIDENTREPORTSUPP.R, RPT.RR.INCIDENTREPORT.R, RPT.RR.INCIDENTREPORT.P, MO.RW.PATROL.P, MO.RW.LEAKAGE30SMYS.R, MO.RW.PATROL.R, MO.RW.ROWMARKER.O, MO.RW.ROWMARKER.P, MO.RW.LEAKAGE.P, MO.RW.LEAKAGE.R, MO.RW.LEAKAGE30SMYS.P, MO.GMOPP.PRESSREGCAP.P, MO.GMOPP.PRESSREGCAP.R, MO.GMOPP.PRESSREGTEST.P, MO.GMOPP.PRESSREGTEST.R, MO.GMOPP.PRESSREGTEST.O, MO.GO.OMHISTORY.R, MO.GO.SRC.P, MO.GO.UPRATE.P, MO.GO.UPRATE.R, MO.GO.PURGE.P, MO.GO.OMEFFECTREVIEW.P, MO.GO.OMEFFECTREVIEW.R, MO.GO.OMHISTORY.P, MO.GM.VALVEINSPECT.R, MO.GM.VALVEINSPECT.O, MO.GM.VAULTINSPECT.P, MO.GM.VAULTINSPECT.R, MO.GM.VALVEINSPECT.P, MO.GOABNORMAL.ABNORMAL.P, MO.GOABNORMAL.ABNORMAL.R, TD.AMAOP, TD.ATM, TD.CPMONITOR.MONITORCRITERIA.P, TD.CPMONITOR.REVCURRENTTEST.R, TD.CPMONITOR.REVCURRENTTEST.O, TD.CPMONITOR.DEFICIENCY.P, TD.CPMONITOR.DEFICIENCY.R, TD.CPMONITOR.TESTSTATION.P, TD.CPMONITOR.TESTSTATION.R, TD.CPMONITOR.CURRENTTEST.R, TD.CPMONITOR.INTFRCURRENT.R, TD.CPMONITOR.INTFRCURRENT.O, TD.CPMONITOR.MONITORCRITERIA.R, TD.CPMONITOR.TEST.P, TD.CPMONITOR.TEST.R, TD.CPMONITOR.CURRENTTEST.P, TD.CPMONITOR.CURRENTTEST.O, TD.CPMONITOR.REVCURRENTTEST.P, TD.CP.ELECISOLATE.P, TD.CP.ELECISOLATE.R, TD.CP.ELECISOLATE.O, TD.CPEXPOSED.EXPOSEINSPECT.P, TD.CPEXPOSED.EXPOSEINSPECT.R, TD.CPEXPOSED.EXTCORRODEEVAL.P, TD.CPEXPOSED.EXTCORRODEEVAL.R, TD.CPEXPOSED.EXTCORRODREPAIR.P, TD.CPEXPOSED.EXTCORRODREPAIR.R, TD.ICP.EXAMINE.P, TD.ICP.EXAMINE.R, TD.ICP.EVALUATE.P, TD.ICP.EVALUATE.R, TD.ICP.REPAIR.P, TD.ICP.REPAIR.R | | | |

Plan Implementations

| # Activity Name | SMART Act# | Start Date | Focus Directives | Involved Groups/Subgroups | Asset Types | Qst Type(s) | Planned | Required | Total Inspected | Required % Complete |
|--|------------|--------------------------|------------------|---------------------------|-------------|-------------|---------|----------|-----------------|---------------------|
| 1. Office Records and Field Inspection | -- | 04/06/2020 04/10/2020 | n/a | all planned questions | all assets | all types | 129 | 129 | 129 | 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 | Skype Records Review | COMPLETED | 04/08/2020 | Office Records and Field Inspection | NWN Transmission 8057 |
| 2. | Attendance List | Field Inspection 04/15/2020 | COMPLETED | 04/15/2020 | Office Records and Field Inspection | NWN Transmission 8057 |

Results (all values, 129 results)

134 (instead of 129) results are listed due to re-presentation of questions in more than one sub-group.

EP.ERG: Emergency Response

1. 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 **NWN Transmission 8057**
Result Notes **Reviewed signature log for 2019. All updates were logged and signed with dates.**

Records were reviewed through Skype.
2. Question Result, ID, References **Sat, EP.ERG.INCIDENTDATA.P, 192.605(b)(4) (191.5(a))**
Question Text *Does the process include the steps necessary for the gathering of data needed for reporting incidents under Part 191 of this chapter in a timely and effective manner?*
Assets Covered **NWN Transmission 8057**
Result Notes **Yes. Standard Practices 615 3.7 and 617 in NWN's O&M manual. "Investigation of Accidents, Incidents, and Material Failures"**

SPW 002 – Reporting Accidents and Incidents SPW 005 – Reporting Safety-Related Conditions
3. Question Result, ID, References **Sat, EP.ERG.NOTICES.P, 192.615(a)(1)**
Question Text *Does the emergency plan include procedures for receiving, identifying, and classifying notices of events which need immediate response?*
Assets Covered **NWN Transmission 8057**
Result Notes **Yes. NWN Emergency Response Plan sections, 1.4, 2, and 3.**
4. 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 **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
5. Question Result, ID, References **Sat, EP.ERG.COMMSYS.P, 192.615(a) (192.615(a)(2))**
Question Text *Does the emergency plan include procedures for establishing and maintaining adequate means of communication with appropriate fire, police, and other public officials?*
Assets Covered **NWN Transmission 8057**
Result Notes **Yes. SPW 615.**

NWN Emergency Response Plan Section 1.4
6. Question Result, ID, References **Sat, EP.ERG.RESPONSE.P, 192.615(a) (192.615(a)(3), 192.615(a)(11), 192.615(b)(1))**
Question Text *Does the emergency plan include procedures for making a prompt and effective response to a notice of each type of emergency, including gas detected inside or near a building, a fire or explosion near or directly involving a pipeline facility, or a natural disaster?*
Assets Covered **NWN Transmission 8057**
Result Notes **Yes. SPW 615 "Basic Emergency Plan"**
7. Question Result, ID, References **Sat, EP.ERG.READINESS.P, 192.615(a) (192.615(a)(4))**

Question Text *Does the process include procedures for ensuring the availability of personnel, equipment, tools, and materials as needed at the scene of an emergency?*

Assets Covered **NWN Transmission 8057**

Result Notes **Yes. SPW 615 Procedure 3. Refers to the NWN Emergency Plan which covers personnel, equipment and tools.**

8. Question Result, ID, References **Sat, EP.ERG.PRESSREDUCESD.P, 192.615(a) (192.615(a)(6))**

Question Text *Does the emergency plan include procedures for the emergency shutdown or pressure reduction in any section of pipeline system necessary to minimize hazards to life or property?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 615 and 616.**

NWN Emergency Response and Recovery Plan

9. Question Result, ID, References **Sat, EP.ERG.AUTHORITIES.P, 192.615(a) (192.615(a)(8))**

Question Text *Does the emergency plan include procedures for notifying appropriate public officials of gas pipeline emergencies and coordinating with them both planned responses and actual responses during an emergency?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 505 and 615.**

NWN Emergency Response and Recovery Plan

10. Question Result, ID, References **Sat, EP.ERG.OUTAGERESTORE.P, 192.615(a) (192.615(a)(9))**

Question Text *Does the emergency plan include procedures for safely restoring any service outage?*

Assets Covered **NWN Transmission 8057**

Result Notes **Standard Practice 615, Emergency Response Plan HA5, section section 3 and 3.2.**

11. Question Result, ID, References **Sat, EP.ERG.INCIDENTACTIONS.P, 192.615(a) (192.615(a)(10))**

Question Text *Does the process include procedures for beginning action under 192.617, if applicable, as soon after the end of the emergency as possible?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 617 - Investigation of Accidents, Incidents, and Material Failures**

12. Question Result, ID, References **Sat, EP.ERG.INCIDENTANALYSIS.P, 192.617**

Question Text *Does the process include procedures for analyzing accidents and failures, including the selection of samples of the failed facility or equipment for laboratory examination, where appropriate, for the purpose of determining the causes of the failure and minimizing the possibility of recurrence?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 617 - Investigation of Accidents, Incidents, and Material Failures**

13. 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 procedures?*

Assets Covered **NWN Transmission 8057**

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

14. Question Result, ID, References **Sat, EP.ERG.POSTEVTREVIEW.P, 192.615(b)(3)**

Question Text *Does the process include detailed steps for reviewing employee activities to determine whether the procedures were effectively followed in each emergency?*

Assets Covered **NWN Transmission 8057**

Result Notes SPW 617. NWN also has an incident review council.

15. 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 NWN Transmission 8057
Result Notes No such event occurred, or condition existed, in the scope of inspection review. This will be N/A since it is a record after the fact and NWN has not had any incidents on this transmission pipeline.
16. Question Result, ID, References Sat, EP.ERG.LIAISON.P, 192.615(c) (192.615(c)(1), 192.615(c)(2), 192.615(c)(3), 192.615(c)(4), 192.616(c), ADB-05-03)
Question Text *Does the process include steps for establishing and maintaining liaison with appropriate fire, police and other public officials and utility owners?*
Assets Covered NWN Transmission 8057
Result Notes Yes. SPW 619, Emergency Response Plan 1.4 Authorities, and their Public Awareness Plan 4.3.1.3, Liaison with public officials.
17. 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 NWN Transmission 8057
Result Notes **Reviewed log of NWN's training department contacts with local fire officials. Camas, Vancouver, Washougal, 2017, 2018, 2019**

Reviewed log of NWN's training department contacts with local public officials. Camas, Vancouver, Washougal, 2017, 2018, 2019

Records were reviewed through Skype.

MO.GOABNORMAL: Gas Pipeline Abnormal Operations

18. Question Result, ID, References Sat, MO.GOABNORMAL.ABNORMAL.P, 192.605(a) (192.605(c)(1))
Question Text *Does the process fully address the responsibilities during and after an abnormal operation?*
Assets Covered NWN Transmission 8057
Result Notes SPW 616.

AOC's are listed in the Field Operations Manual. The AOC's for each covered task were reviewed. No AOC's existed on this pipeline since the last inspection.
19. 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 NWN Transmission 8057
Result Notes No such event occurred, or condition existed, in the scope of inspection review.

Maintenance records reviewed indicate that no AOC's were noted since the last inspection.

MO.GM: Gas Pipeline Maintenance

20. Question Result, ID, References Sat, MO.GM.VALVEINSPECT.P, 192.605(b)(1) (192.745(a), 192.745(b))
Question Text *Are their processes for inspecting and partially operating each transmission line valve that might be required in an emergency at intervals not exceeding 15 months, but at least once each calendar year and for taking prompt remedial action to correct any valve found inoperable?*
Assets Covered NWN Transmission 8057

Result Notes Yes. SPW 405 - valves for transmission and distribution lines.

21. 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 NWN Transmission 8057
Result Notes Reviewed valve O&M records for 2017 - 2020. All completed annually, no issues.
22. 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 NWN Transmission 8057
Result Notes Yes. SPW 749 - Vaults for Valves and Pressure Regulating Equipment.
23. Question Result, ID, References Sat, MO.GM.VAULTINSPECT.P, 192.605(b)(1) (192.749(a), 192.749(b), 192.749(c), 192.749(d))
Question Text *Does the process include inspecting each vault that houses pressure regulating or limiting equipment that is 200 cubic feet or more in volume at intervals not exceeding 15 months, but at least once each calendar year, to determine that it is in good physical condition and adequately ventilated and that remedial actions are taken if needed?*
Assets Covered NWN Transmission 8057
Result Notes Yes. SPW 749 - Vaults for Valves and Pressure Regulating Equipment, Section 3.2.
24. Question Result, ID, References NA, MO.GM.VAULTINSPECT.R, 192.605(b)(1) (192.749(a), 192.749(b), 192.749(c), 192.749(d))
Question Text *Do records indicate proper inspection of each vault to determine whether it is in good physical condition and adequately ventilated as required and any necessary action taken to remediate deficiencies?*
Assets Covered NWN Transmission 8057
Result Notes No such relevant facilities/equipment existed in the scope of inspection review. No vaults over 200cf.

MO.GOODOR: Gas Pipeline Odorization

25. Question Result, ID, References Sat, MO.GOODOR.ODORIZE.P, 192.605(b)(1) (192.625(a), 192.625(b), 192.625(c), 192.625(d), 192.625(e), 192.625(f))
Question Text *Does the process ensure appropriate odorant levels are contained in its combustible gases in accordance with 192.625?*
Assets Covered NWN Transmission 8057
Result Notes SPW 625
26. Question Result, ID, References Sat, 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 NWN Transmission 8057
27. Question Result, ID, References Sat, 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 NWN Transmission 8057
Result Notes Reviewed odorization records for 2017 to 2020.

MO.GO: Gas Pipeline Operations

28. Question Result, ID, References Sat, MO.GO.PURGE.P, 192.605(b)(1) (192.629(a), 192.629(b))
Question Text *Does the process include requirements for purging of pipelines in accordance with 192.629?*
Assets Covered NWN Transmission 8057

Result Notes SPW 727 for purging out of service.

SPW 303 - Requirements for Shutdown, Tie-In, and Startup Procedures.

and, in NWN's on-line FOM, under *Guidelines for Purging Steel Mains*.

29. Question Result, ID, References Sat, MO.GO.OMEFFECTREVIEW.P, 192.605(a) (192.605(b)(8))

Question Text *Does the process include requirements for periodically reviewing 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 NWN Transmission 8057

Result Notes **NWN's QA program accomplishes this through "Representative Sampling". They attempt to do 10 inspections per year per employee. Different types of work sampling such as replacements, reinforcement, O&M, Transmission etc., are inspected and reviewed.**

Reviewed a sampling of actual inspection records.

These records were reviewed through Skype.

30. 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 NWN Transmission 8057

Result Notes **NWN's QA program accomplishes this through "Representative Sampling". They attempt to do 10 inspections per year per employee. Different types of work sampling such as replacements, reinforcement, O&M, Transmission etc., are inspected and reviewed.**

Reviewed a sampling of actual inspection records.

These records were reviewed through Skype.

31. Question Result, ID, References Sat, MO.GO.OMHISTORY.P, 192.605(a) (192.605(b)(3))

Question Text *Does the process include requirements for making construction records, maps and operating history available to appropriate operating personnel?*

Assets Covered NWN Transmission 8057

Result Notes SPW 607 - Pipeline Records and Information.

32. 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 NWN Transmission 8057

Result Notes **Records are available through Mapframe software. Mapframe is available on laptops with each crew.**

Reviewed Mapframe on Skype.

33. Question Result, ID, References Sat, MO.GO.SRC.P, 192.605(a) (192.605(d), 191.23(a))

Question Text *Does the process include instructions enabling personnel who perform operation and maintenance activities to recognize conditions that may potentially be safety-related conditions?*

Assets Covered NWN Transmission 8057

Result Notes SPW 005 - Continuing Surveillance and Response to Unsatisfactory Conditions

34. Question Result, ID, References **Sat, MO.GO.UPRATE.P, 192.13(c) (192.553(a), 192.553(b), 192.553(c), 192.553(d))**
Question Text *Is the pressure uprating process consistent with the requirements of 192.553?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 555 - Uprating of Maximum Allowable Operating Pressure (MAOP)**

There have been no uprates on this transmission pipeline.

35. 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 **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No uprates.**

MO.GMOPP: Gas Pipeline Overpressure Protection

36. Question Result, ID, References **Sat, MO.GMOPP.PRESSREGCAP.P, 192.605(b)(1) (192.743(a), 192.743(b), 192.743(c))**
Question Text *Does the process include procedures for ensuring that the capacity of each pressure relief device at pressure limiting stations and pressure regulating stations is sufficient?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 743 - District and Primary Service Regulators**

37. Question Result, ID, References **Sat, 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?*
Assets Covered **NWN Transmission 8057**

38. Question Result, ID, References **Sat, MO.GMOPP.PRESSREGTEST.P, 192.605(b)(1) (192.739(a), 192.739(b))**
Question Text *Does the process include procedures for inspecting and testing each pressure limiting station, relief device, and pressure regulating station and their equipment?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 743 - District and Primary Service Regulators**

39. Question Result, ID, References **Sat, 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?*
Assets Covered **NWN Transmission 8057**

40. 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 **NWN Transmission 8057**
Result Notes **No such activity/condition was observed during the inspection.**

Williams Pipeline Northwest provides NWN with regulation and over-pressure protection at the gate station. No other transmission regulator station exist. There are 4 other regulator stations providing service to distribution systems off the transmission pipeline. Those will be inspected as part of the unit distribution system inspections.

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

41. 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 **NWN Transmission 8057**

Result Notes **SPW 703 - Patrolling Transmission and Distribution Lines**

42. 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 **NWN Transmission 8057**
Result Notes **Reviewed bridge patrols, quarterly patrols and semi annual patrols for 2017, 2018 and 2019.**
43. 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 **NWN Transmission 8057**
Result Notes **Drove the entire pipeline from the Camas gate station to the end and the pipeline right of way was well marked.**
44. 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 **NWN Transmission 8057**
Result Notes **SPW 705 - Pipeline Markers**
45. Question Result, ID, References **Sat, MO.RW.LEAKAGE.P, 192.706 (192.706(a), 192.706(b), 192.935(d))**
Question Text *Does the process require leakage surveys to be conducted?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 707 - Leakage Survey Program**
46. Question Result, ID, References **Sat, 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 **NWN Transmission 8057**
Result Notes **Records were reviewed for 2017, 2018 and 2019**
47. Question Result, ID, References **Sat, MO.RW.LEAKAGE30SMYS.P, 192.935(d)(3) (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, is there a process for performing leak surveys?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 703 - Leakage Survey Program**
48. 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 **NWN Transmission 8057**

PD.PA: Public Awareness

49. 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: 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 **NWN Transmission 8057**
Result Notes **Reviewed log of NWN's training department contacts with local fire officials. Camas, Vancouver, Washougal, 2017, 2018, 2019**

Reviewed log of NWN's training department contacts with local public officials. Camas, Vancouver, Washougal, 2017, 2018, 2019

Records were reviewed through Skype.

PD.RW: ROW Markers, Patrols, Monitoring

50. 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 **NWN Transmission 8057**
Result Notes **SPW 703 - Patrolling Transmission and Distribution Lines**
51. 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 **NWN Transmission 8057**
Result Notes **Reviewed bridge patrols, quarterly patrols and semi annual patrols for 2017, 2018 and 2019.**
52. 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 **NWN Transmission 8057**
Result Notes **Drove the entire pipeline from the Camas gate station to the end and the pipeline right of way was well marked.**
53. 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 **NWN Transmission 8057**
Result Notes **SPW 705 - Pipeline Markers**

RPT.RR: Regulatory Reporting (Traditional)

54. Question Result, ID, References **Sat, RPT.RR.ANNUALREPORT.R, 191.17(a)**
Question Text *Have complete and accurate Annual Reports been submitted?*
Assets Covered **NWN Transmission 8057**
Result Notes **Annual reports for 2016, 2017 and 2018 were reviewed. NWN had 3.4 miles of transmission line until 2017 when they added 0.1 miles.**
55. Question Result, ID, References **Sat, RPT.RR.IMMEDREPORT.P, 191.5(b) (191.7)**
Question Text *Is there a process to immediately report incidents to the National Response Center?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 002 - Reporting Accidents and Incidents**
56. 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 **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
57. Question Result, ID, References **NA, RPT.RR.INCIDENTREPORTSUPP.R, 191.15(d)**
Question Text *Do records indicate accurate supplemental incident reports were filed and within the required timeframe?*
Assets Covered **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
58. 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 **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**

59. Question Result, ID, References **Sat, RPT.RR.INCIDENTREPORT.P, 191.15(a)**
 Question Text *Does the process require preparation and filing of an incident report as soon as practicable but no later than 30 days after discovery of a reportable incident?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **SPW 002 - Reporting Accidents and Incidents**
60. Question Result, ID, References **Sat, RPT.RR.INCIDENTREPORTSUPP.P, 191.15(d)**
 Question Text *Does the process require preparation and filing of supplemental incident reports?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **SPW 002 - Reporting Accidents and Incidents**
61. Question Result, ID, References **Sat, RPT.RR.SRCR.P, 192.605(a) (191.23(a), 191.23(b), 191.25(a), 191.25(b))**
 Question Text *Do processes require reporting of safety-related conditions?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **SPW 002 - Reporting Accidents and Incidents**
62. 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 **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
63. Question Result, ID, References **Sat, 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 **NWN Transmission 8057**
 Result Notes **NPMS submissions were made on 2/9/2017, 1/31/2018 and 2/6/2019. Records were reviewed by Skype.**

TD.AMAOP: Alternative MAOP

64. Question Result, ID, References **NA, TD.AMAOP.AMAOP.P, 192.605(b)(2) (192.620(d)(5))**
 Question Text *Is there a process for controlling internal corrosion on pipelines that may operate under the Alternative Maximum Operating Pressure rule?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
65. Question Result, ID, References **NA, TD.AMAOP.AMAOP.R, 192.709(c) (192.620(d)(5))**
 Question Text *Do records document that the operator is following a process for controlling internal corrosion on pipelines they may operate under the Alternative Maximum Operating Pressure rule?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
66. Question Result, ID, References **NA, TD.AMAOP.AMAOP.O, 192.620(d)(5)**
 Question Text *Is the process being followed for controlling internal corrosion on pipelines operated under the Alternative Maximum Operating Pressure rule?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review.**
67. Question Result, ID, References **NA, TD.AMAOP.AMAOPINTFCURRENT.P, 192.605(b)(2) (192.620(d)(6))**

Question Text *Does the process include (prior to operating an existing pipeline segment at an alternate maximum allowable operating pressure, or within six months after placing a new pipeline segment in service at an alternate maximum allowable operating pressure) required instructions for addressing any interference currents on the pipeline segment?*

Assets Covered **NWN Transmission 8057**

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

68. Question Result, ID, References **NA, TD.AMAOP.AMAOPINTFRCURRENT.R, 192.709(c) (192.620(d)(6))**

Question Text *Do records document that actions taken (prior to operating an existing pipeline segment at an alternate maximum allowable operating pressure, or within six months after placing a new pipeline segment in service at an alternate maximum allowable operating pressure) have been adequate in addressing any interference currents on the pipeline segment?*

Assets Covered **NWN Transmission 8057**

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

69. Question Result, ID, References **NA, TD.AMAOP.AMAOPINDIRECT.P, 192.605(b)(2) (192.620(d)(7))**

Question Text *Does the process require that within six months after placing the cathodic protection of a new pipeline segment in operation, or within six months after an existing pipeline segment under Part 192 has been certified under the Alternative Maximum Operating Pressure rule, that adequacy be assessed of the indirect method such as close-interval survey, and the integrity of the coating using direct current voltage gradient (DCVG) or alternating current voltage gradient (ACVG)?*

Assets Covered **NWN Transmission 8057**

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

70. Question Result, ID, References **NA, TD.AMAOP.AMAOPINDIRECT.R, 192.709(c) (192.620(d)(7))**

Question Text *Do records document that within six months after placing the cathodic protection of a new pipeline segment in operation, or within six months after an existing pipeline segment under Part 192 has been certified under the Alternative Maximum Operating Pressure rule, that adequacy was assessed of the indirect method such as close-interval survey, and the integrity of the coating using direct current voltage gradient (DCVG) or alternating current voltage gradient (ACVG)?*

Assets Covered **NWN Transmission 8057**

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

71. Question Result, ID, References **NA, TD.AMAOP.AMAOPTESTREAD.P, 192.605(b)(2) (192.620(d)(8))**

Question Text *Does the process for a pipeline segment operating at an alternate maximum allowable operating pressure require: *Completion of remedial action within six months of a failed reading at a test station during annual monitoring; *Or notification of each responsible pipeline safety party demonstrating that the integrity of the pipeline is not compromised; *And after completion of the remedial action to address a failed reading, confirm restoration of adequate corrosion control by a close interval survey on either side of the affected test station to the next test station?*

Assets Covered **NWN Transmission 8057**

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

72. Question Result, ID, References **NA, TD.AMAOP.AMAOPTESTREAD.R, 192.709(c) (192.620(d)(8))**

Question Text *Do records document that for a pipeline segment operating at an alternate maximum allowable operating pressure the following; *Completion of remedial action within six months of a failed reading at a test station during annual monitoring; *Or notification of each responsible pipeline safety party demonstrating that the integrity of the pipeline is not compromised and; *And after completion of the remedial action to address a failed reading, confirm restoration of adequate corrosion control by a close interval survey on either side of the affected test station to the next test station?*

Assets Covered **NWN Transmission 8057**

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

TD.ATM: Atmospheric Corrosion

73. Question Result, ID, References **Sat, TD.ATM.ATMCORRODE.P, 192.605(b)(2) (192.479(a), 192.479(b), 192.479(c))**

Question Text *Does the process give adequate guidance identifying atmospheric corrosion and for protecting above ground pipe from atmospheric corrosion?*

Assets Covered **NWN Transmission 8057**
Result Notes **SPW 480 - Atmospheric Corrosion Control**

74. 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 **NWN Transmission 8057**
Result Notes **Drove the entire pipeline from the Camas gate station to the end and there were only two areas with atmospherically exposed pipe, the Camas gate station and the Lacamus Lake bridge crossing. Both areas had good coating and properly wrapped soil to air interfaces.**
75. 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 **NWN Transmission 8057**
76. Question Result, ID, References **Sat, TD.ATM.ATMCORRODEINSP.P, 192.605(b)(2) (192.481(a), 192.481(b), 192.481(c))**
Question Text *Does the process give adequate instruction for the inspection of aboveground pipeline segments for atmospheric corrosion?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 480 - Atmospheric Corrosion Control**
77. 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 **NWN Transmission 8057**
Result Notes **Records were reviewed for the dates between 2017 and 2020.**

TD.CPMONITOR: External Corrosion - CP Monitoring

78. Question Result, ID, References **Sat, TD.CPMONITOR.MONITORCRITERIA.P, 192.605(b)(2) (192.463(a), 192.463(c))**
Question Text *Does the process require CP monitoring criteria to be used that is acceptable?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 463 - Cathodic Protection Systems. NWN primarily uses -850mv but will use the 100mv shift as a back up.**
79. 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 **NWN Transmission 8057**
Result Notes **Reviewed records for 2017 to 2020.**
80. 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 **NWN Transmission 8057**
Result Notes **Primarily -850mv with the 100mv shift as a back up measurement.**
81. Question Result, ID, References **Sat, TD.CPMONITOR.TEST.P, 192.605(b)(2) (192.465(a))**
Question Text *Does the process adequately describe how to monitor CP that has been applied to pipelines?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 463 - Cathodic Protection Systems. NWN primarily uses -850mv but will use the 100mv shift as a back up.**
82. 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 **NWN Transmission 8057**
Result Notes **Reviewed records for 2017 to 2020.**

83. Question Result, ID, References **Sat, TD.CPMONITOR.CURRENTTEST.P, 192.605(b)(2) (192.465(b))**
Question Text *Does the process give sufficient details for making electrical checks of rectifiers or impressed current sources?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 465 - External Corrosion Control: Monitoring**
84. 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 **NWN Transmission 8057**
Result Notes **Tested the single rectifier #116809 and it was functioning properly. Voltage was 9.43v, Amperage was 1.3 amps, CP read was -1.516v. The shunt was 50/50.**
85. Question Result, ID, References **Sat, TD.CPMONITOR.REVCURRENTTEST.P, 192.605(b)(2) (192.465(c))**
Question Text *Does the process give sufficient details for making electrical checks of interference bonds, diodes, and reverse current switches?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 465 - External Corrosion Control: Monitoring**
86. 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 **NWN Transmission 8057**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
87. 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 **NWN Transmission 8057**
Result Notes **No such relevant facilities/equipment existed in the scope of inspection review.**
88. Question Result, ID, References **Sat, TD.CPMONITOR.DEFICIENCY.P, 192.605(b)(2) (192.465(d))**
Question Text *Does the process require that the operator promptly correct any identified deficiencies in corrosion control?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 483 - Corrosion Control Remedial Action**
89. 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 **NWN Transmission 8057**
Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No deficiencies were identified in the records.**
90. Question Result, ID, References **Sat, TD.CPMONITOR.TESTSTATION.P, 192.469**
Question Text *Does the process contain provisions to assure that each pipeline has sufficient test stations or other contact points to determine the adequacy of cathodic protection?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 463 - Cathodic Protection Test Stations and Test Leads**

91. 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 **NWN Transmission 8057**
 Result Notes **There is only 1 test site identified. The pipeline is only 3.5 miles long.**
92. Question Result, ID, References **NA, 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 **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No interference currents notes.**
93. 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 **NWN Transmission 8057**
 Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No stray currents noted. All other test points good.**

TD.CP: External Corrosion - Cathodic Protection

94. Question Result, ID, References **Sat, TD.CP.ELECISOLATE.P, 192.605(b)(2) (192.467(a), 192.467(b), 192.467(c), 192.467(d), 192.467(e))**
 Question Text *Does the process give adequate guidance for electrically isolating each buried or submerged pipeline from other metallic structures unless they electrically interconnect and cathodically protect the pipeline and the other structures as a single unit?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **SPW's 465 and 467.**
95. 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 **NWN Transmission 8057**
 Result Notes **Reviewed casing inspections for 2017 - 2020. There are 4 casings on this transmission pipeline.**
96. 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 **NWN Transmission 8057**
 Result Notes **Drove the entire pipeline from the Camas gate station to the end and took cathodic protection reads at all test sites and casings. All reads were good and all isolation points were good.**

TD.CPEXPOSED: External Corrosion - Exposed Pipe

97. Question Result, ID, References **Sat, TD.CPEXPOSED.EXPOSEINSPECT.P, 192.605(b)(2) (192.459)**
 Question Text *Does the process require that exposed portions of buried pipeline be examined for external corrosion and coating deterioration, and if external corrosion is found, further examination is required to determine the extent of the corrosion?*
 Assets Covered **NWN Transmission 8057**
 Result Notes **SPW 455 - Corrosion Control Requirements**
98. 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 **NWN Transmission 8057**

Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No exposed pipe since the last inspection.**

99. Question Result, ID, References **Sat, TD.CPEXPOSED.EXTCORRODEEVAL.P, 192.605(b)(2) (192.485(a), 192.485(b), 192.485(c))**

Question Text *Does the process provide sufficient direction for personnel to evaluate the remaining strength of externally corroded pipe?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 483 - Corrosion Control Remedial Action. Primarily RSTRENG or equivalent.**

100. 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 **NWN Transmission 8057**

Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No external corrosion or exposed pipe since the last inspection.**

101. Question Result, ID, References **Sat, TD.CPEXPOSED.EXTCORRODREPAIR.P, 192.605(b)(2) (192.485(a), 192.485(b), 192.485(c))**

Question Text *Does the process give sufficient guidance for personnel to repair or replace pipe that is externally corroded to an extent that there is not sufficient remaining strength in the pipe wall?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 483**

102. 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 **NWN Transmission 8057**

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

TD.ICP: Internal Corrosion - Preventive Measures

103. Question Result, ID, References **Sat, TD.ICP.EXAMINE.P, 192.605(b)(2) (192.475(a), 192.475(b))**

Question Text *Does the process direct personnel to examine removed pipe for evidence of internal corrosion?*

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 459 - Inspection of Exposed Pipe and Internal Pipe Surfaces**

104. 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 **NWN Transmission 8057**

Result Notes **No such event occurred, or condition existed, in the scope of inspection review. No pipe removed since the last inspection.**

105. Question Result, ID, References **Sat, TD.ICP.EVALUATE.P, 192.605(b)(2) (192.485(c))**

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

Assets Covered **NWN Transmission 8057**

Result Notes **SPW 459**

106. 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 **NWN Transmission 8057**

Result Notes No such event occurred, or condition existed, in the scope of inspection review. No pipe has been removed since the last inspection.

107. Question Result, ID, References Sat, TD.ICP.REPAIR.P, 192.491(c) (192.485(a), 192.485(b))

Question Text Does the process give sufficient guidance for personnel to repair or replace pipe that has internally corroded to an extent that there is no longer sufficient remaining strength in the pipe wall?

Assets Covered NWN Transmission 8057

Result Notes SPW 005 for reporting. Various other locations for inspection and repair.

108. 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 NWN Transmission 8057

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

TQ.PROT9: OQ Protocol 9

109. 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 NWN Transmission 8057

Result Notes Records were reviewed for all employees performing covered tasks related to records review. For any covered tasks that were reviewed electronically the OQ records were requested and reviewed.

May not have the opportunity to directly observe covered tasks due to Covid-19 shut downs. .

TQ.OQ: Operator Qualification

110. Question Result, ID, References Sat, TQ.OQ.OOPLAN.P, 192.805(a) (192.801(b))

Question Text Is there an OQ plan that includes covered tasks, and the basis used for identifying covered tasks?

Assets Covered NWN Transmission 8057

Result Notes Section 4.2 of NWN's plan identifies the covered tasks.

111. Question Result, ID, References Sat, TQ.OQ.REEVALINTERVAL.P, 192.805(g)

Question Text Does the OQ plan establish and justify requirements for reevaluation intervals for each covered task?

Assets Covered NWN Transmission 8057

Result Notes Section 6.4 of NWN's OQ Plan.

112. Question Result, ID, References Sat, TQ.OQ.OQCONTRACTOR.R, 192.807(a) (192.807(b))

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

Assets Covered NWN Transmission 8057

Result Notes Reviewed a sampling of OQ records for NWN contractors.

113. Question Result, ID, References Sat, TQ.OQ.RECORDS.R, 192.807

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

Assets Covered NWN Transmission 8057

Result Notes Records were reviewed for all employees performing covered tasks related to records review. For any covered tasks that were reviewed electronically the OQ records were requested and reviewed.

114. Question Result, ID, References Sat, TQ.OQ.TRAINING.P, 192.805(h)

Question Text *Does the OQ program provide for initial qualification, retraining and reevaluation of individuals performing covered tasks?*

Assets Covered NWN Transmission 8057

Result Notes Yes, NWN OQ Plan section 6.2.

115. Question Result, ID, References Sat, TQ.OQ.TRAINING.R, 192.807(a) (192.807(b))

Question Text *Does the operator have records for initial qualification, retraining and reevaluation of individuals performing covered tasks?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Section 6.2. Reviewed OQ records for personnel that performed previous maintenance on the transmission line.

116. Question Result, ID, References Sat, TQ.OQ.OQPLANCONTRACTOR.P, 192.805(b) (192.805(f), 192.805(c))

Question Text *Does the OQ plan have a process to communicate the OQ plan requirements to contractors and ensure that contractors are following it?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Section 6.6.

117. Question Result, ID, References Sat, TQ.OQ.OQCONTRACTOR.P, 192.805(b) (192.805(c), 192.805(d), 192.805(e), 192.805(f))

Question Text *Does the OQ plan require other entities that perform covered tasks on behalf of the operator to be qualified?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Section 7.4

118. Question Result, ID, References Sat, TQ.OQ.OQCONTRACTOREQUIV.P, 192.805(h)

Question Text *Does the OQ plan document that the operator has assured that the processes on which an OQ vendor has evaluated qualified personnel are the same or consistent with those used by the operator for employees and contractors in the field?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Section 6.3. NWN only accepts their own internal program. No outside programs are allowed.

119. Question Result, ID, References Sat, TQ.OQ.OTHERENTITY.R, 192.805(b) (192.805(c), 192.803)

Question Text *If the operator employs other entities to perform covered tasks, such as mutual assistance, are adequate records containing the required elements maintained?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Sections 6.6 and 7.4. NWN has not utilized any mutual assistance since the last inspection. OQ records were not reviewed for this question but the procedures are in place.

120. Question Result, ID, References Sat, TQ.OQ.ABNORMAL.P, 192.803

Question Text *Does the OQ Plan contain requirements to assure that individuals performing covered tasks are able to recognize and react to abnormal operating conditions (AOCs)?*

Assets Covered NWN Transmission 8057

Result Notes NWN OQ Plan Section 4.3. AOC's are listed for each covered task. Records of AOC's for covered tasks were reviewed on a sampling basis.

121. Question Result, ID, References Sat, TQ.OQ.ABNORMAL.R, 192.807(a) (192.807(b), 192.803)

Question Text *Do records document evaluation of qualified individuals for recognition and reaction to AOCs?*

Assets Covered NWN Transmission 8057

Result Notes A sampling of records were reviewed for employees that performed covered tasks during O&M of the pipeline.

122. Question Result, ID, References Sat, TQ.OQ.ABNORMAL.O, 192.803

Question Text *Do individuals performing covered tasks have adequate knowledge to recognize and react to abnormal operating conditions?*

Assets Covered **NWN Transmission 8057**
Result Notes **All OQ certs were good. AOC's were reviewed.**

123. Question Result, ID, References **Sat, TQ.OQ.PERFMONITOR.P, 192.805(d) (192.805(e))**
Question Text *Does the program include provisions to evaluate an individual if there is reason to believe that performance of a covered task contributed to an incident or accident as defined in Parts 192 and 195 or there is reason to believe an individual is no longer qualified to perform a covered task?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN OQ Plan 6.4.**
124. Question Result, ID, References **Sat, TQ.OQ.OOPLAN.O, 192.805(h)**
Question Text *Do individuals performing covered tasks demonstrate adequate skills, knowledge, and ability?*
Assets Covered **NWN Transmission 8057**
Result Notes **No issues.**
125. Question Result, ID, References **Sat, TQ.OQ.MOC.P, 192.805(f)**
Question Text *Does the OQ program identify how changes to processes, tools standards and other elements used by individuals in performing covered tasks are communicated to the individuals, including contractor individuals, and how these changes are implemented in the evaluation method(s)?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN OQ Plan Section 3.5.**
126. Question Result, ID, References **Sat, TQ.OQ.CHANGENOTIFY.P, 192.805(i)**
Question Text *Does the process require significant OQ program changes to be identified and the Administrator or State agency notified?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN OG Plan Section 3.6.**
127. Question Result, ID, References **Sat, TQ.OQ.CHANGERECD.R, 192.805(i) (192.805(f))**
Question Text *Are records maintained for changes that affect covered tasks and significant OQ plan changes?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN maintains a "Revisions Log" in their OQ Plan and a "What's New" section of Field Operations Manual (FOM)**

TQ.QU: Qualification of Personnel - Specific Requirements

128. Question Result, ID, References **Sat, TQ.QU.CORROSION.P, 192.453 (192.805(b))**
Question Text *Does the process require corrosion control processes to be carried out by, or under the direction of, qualified personnel?*
Assets Covered **NWN Transmission 8057**
Result Notes **SPW 801 - Qualification of Personnel**
129. Question Result, ID, References **Sat, TQ.QU.CORROSION.R, 192.453 (192.807(a), 192.807(b))**
Question Text *Do records indicate qualification of personnel implementing pipeline corrosion control methods?*
Assets Covered **NWN Transmission 8057**
Result Notes **OQ records were reviewed for personnel performing cathodic protection tasks. (During electronic records reviews their names were noted and records requested).**
130. Question Result, ID, References **Sat, TQ.QU.HOTTAPQUAL.P, 192.627 (192.805(b))**
Question Text *Does the process require taps on a pipeline under pressure (hot taps) to be performed by qualified personnel?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN covered task 145-02.**

131. Question Result, ID, References **Sat, TQ.QU.HOTTAPQUAL.R, 192.627 (192.807(a), 192.807(b))**
Question Text *Do records indicate the qualification of personnel performing hot taps?*
Assets Covered **NWN Transmission 8057**
Result Notes **No hot taps were observed or performed since the last inspection. NWN uses welders for small hot taps. A sampling of welders OQ records were reviewed for hot tap qualification.**

TQ.QUIM: Qualification of Personnel - Specific Requirements (IM)

132. Question Result, ID, References **Sat, TQ.QUIM.IMREVIEWQUAL.P, 192.915(a) (192.915(b), 192.915(c), 192.935(b))**
Question Text *Does the process require that operator/vendor personnel (including supervisors and persons responsible for preventive and mitigative measures), who review and evaluate results meet acceptable qualification standards?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN's TIMP plan Section 12.6 indicates the requirements.**
133. Question Result, ID, References **Sat, TQ.QUIM.IMREVIEWQUAL.R, 192.947(e) (192.915(a), 192.915(b), 192.915(c), 192.935(b)(1)(i), 192.947(d))**
Question Text *Do records indicate adequate qualification of integrity management personnel?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN sets minimum criteria for IM personnel in their TIMP manual. NWN's personnel meet the requirements set forth. Reviewed via Skype.**
134. Question Result, ID, References **Sat, TQ.QUIM.IMQC.P, 192.805(b) (ASME B31.8S-2004, Section 12.2(b)(4), 192.935(b)(1)(i), 192.907(b), 192.911(l))**
Question Text *Does the process require personnel who execute IM program activities to be competent and qualified in accordance with the quality control plan in accordance with ASME B31.8S-2004, Section 12.2(b)(4)?*
Assets Covered **NWN Transmission 8057**
Result Notes **NWN's TIMP plan Section 12.6 discusses personnel and qualification requirements.**

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.