A completed **Annual Review form and Cover Letter/Field Report** must be submitted to the Chief Engineer within **30 days** from completion of the inspection.

| Inspection Report | | | | | | |
|----------------------------|--------|-----------------------------|----------|-------|--|--|
| Inspection ID/Docke | et | 7817 | | | | |
| Inspector | | David Cullom 11/15/2019 | | | | |
| Name & | | | | | | |
| Submit Date | | | | | | |
| Chief Eng | | Joe Subsits 11/19/2019 | | | | |
| Name & | | | | | | |
| Review/Date | | | | | | |
| | | Operator Information | | | | |
| Name of Operator: | North | west Natural | OP ID #: | 13840 | | |
| Records Location: | Portla | nd, Oregon | | | | |
| Inspection Date: | 3/13/2 | 2019 and 11/6/2019 | | | | |

Review Summary:

This annual review contains information derived from operator interviews, annual reports, DIMP/TIMP updates, Pipeline Replacement Plans, and specialized program reviews.

| HO Address: | System/Unit Name & Ad | ldress: | | | |
|----------------------------------|-----------------------------------|----------------------|--|--|--|
| 220 Northwest 2nd Avenue | Headquarters | | | | |
| Portland, Oregon 97209 | 220 Northwest 2nd Avenu | ie | | | |
| | Portland, Oregon 97209 | | | | |
| | | | | | |
| Co. Official: Jon G. Huddleston | Phone | | | | |
| Phone No.: (503) 721-2522 | No.: Fax | No.: Fax | | | |
| Fax No.: (503) 220-2584 | No.: | No.: | | | |
| Emergency Phone No:(503) 226-421 | 1 x4613 Emergency Phone No.: | Emergency Phone No.: | | | |
| | | | | | |
| Persons Interviewed | Title | Phone | | | |
| Jaimie Lemke | Code Compliance Specialist | (503) 226-4211 x4316 | | | |
| Margaret Locke | Compliance Engineer | (503) 226-4211 x4306 | | | |
| Samantha Rookstool | Code Compliance Specialist | (503) 226-4211 x4366 | | | |
| Ryan Truair | Interim Sr. Manager of Compliance | (503) 226-4211 x4361 | | | |

| System Operations | | | | | |
|---|--|--|--|--|--|
| Number of reportable safety related conditions last year: 0 per Part F and G of the Annual Report. | Number of deferred leaks in system: 1 | | | | |
| Number of <u>non-reportable</u> safety related conditions last year 0 per Part F and G of the Annual Report | Number of excavation damage hits last year: 97 total 7 "Other" | | | | |
| Miles of transmission pipeline within company (total miles and miles in Class 3 & 4 locations): | Miles of main within company (total miles and miles in Class 3 & 4 locations): | | | | |
| 8" Transmission is 3.5 per 2018 AR and is in a Class 3 location. This includes .1 mile that is under 20% SMYS | 1899.8 miles of main (2018) not spilt out by Class locations 1841.6 miles of main (2017) not spilt out by Class locations | | | | |
| Operating Pressure(s) in psig: | System MAOP(s) in psig: | | | | |
| 8" Transmission 330 psig (2017) DN | 8" Transmission 400 psig (2017) DN | | | | |
| Did not visit this site (2017) DN | Felida Gate 809 psig (2017) DN | | | | |
| Did not visit this site (2015) DR | N Vancouver Gate (Williams provides pressure regulation) Inlet 960 outlet 255 | | | | |
| 610 Inlet/218 outlet (2015) DR | 5207 NW McCann Inlet 809 outlet 250 (2015) DR | | | | |
| 607 Inlet/510 outlet; 607 Inlet /490 outlet; 510 inlet /227 outlet (2015) DR | W. Vancouver Gate Inlet 809 outlet 250 (2015) DR | | | | |
| Did not visit this site (2015) DR | Camas Gate Inlet 400 outlet 60 (2015) DR | | | | |
| Did not visit this site (2015) DR | Washougal Gate Inlet 250 outlet 40 (2015) DR | | | | |
| Did not visit this site (2015) DR | NE Union Rd @179th St Inlet 960 outlet 250 (2015) DR | | | | |
| Did not visit this site (2015) DR | Battleground Gate Inlet 250 outlet 60 (2015) DR | | | | |
| Did not visit this site (2015) DR | Ridgefield Gate Inlet 809 outlet 250 (2015) DR | | | | |
| Did not visit this site (2015) DR | (2015) DR | | | | |
| North Bonneville 97 (2014) DC | North Bonneville 150 (2014) DC | | | | |
| Carson 142 (2014) DC | Carson 150 (2014) DC3 | | | | |
| White Salmon (White Salmon and Bingen run together.)148 (2014) DC | White Salmon (White Salmon and Bingen run together.) 160 (2014) DC | | | | |
| Klickitat 80 (2014) DC | Klickitat 500 (2014) DC | | | | |
| Dallesport 160 (2014) DC | Dallesport 250 (2014) DC | | | | |
| John Day On Nitrogen – idle (2014) DC | John Day On Nitrogen – idle (2014) DC | | | | |
| Does the operator have any transmission pipelines? | Yes | | | | |
| Compressor stations? Use Attachment 1. | No | | | | |

| Pipe Specifications: | | | | | | |
|------------------------|----------------------------|---------------------------------|-----------------------------------|--|--|--|
| Year Installed (Range) | Distribution 1950-present | Pipe Diameters (Range) | Distribution ¹ /2"-12" | | | |
| | Transmission 1950- 1959 8" | | Transmission 8" | | | |
| Material Type | PE and Steel | Line Pipe Specification Used | API5L and ASTM D2513 | | | |

| Mileage8" Transmission is 3.5 miles per the 2018 AR 3.4 miles reported in 2017. Part (PT and ILI info) has 3.6 miles listed. There is a difference of .1 mile in the 2018 report. | SMYS % | 8" Transmission is Greater than or equal to 20% SMYS but less than 30% SMYS. |
|---|--------|--|
|---|--------|--|

| | REVIEW QUESTIONS | S/Yes | U/No | N/A |
|----|--|-------|------|-----|
| 1. | Was the Annual Report reviewed for accuracy and trends? If any trends discovered, please | Х | | |
| | describe: | | | |
| | Items noted were: | | | |
| | Annual Report Excavation Damage Cause: | | | |
| | Locating practices not Sufficient: There were 15 reported by NWN on the 2017 Annual Report. It went down to 2 in 2018. This appears to be a favorable trend, but many factors can influence this outcome. | | | |
| 2. | For transmission operators, has the operator submitted information to the NPMS database, along with changes made after the original submission? | Х | | |
| | Additionally, to meet the UTC requirements under RCW 81.88.080 The operator has this procedure in their manual: | | | |
| | "In January of each year, provide accurate maps of pipelines that are operating over two hundred fifty pounds per square inch gauge to the WUTC. The WUTC needs to receive notification even if changes to the required pipeline facilities do not occur." | | | |
| | Checking with Commission GIS staff earlier in 2019, NWN has provided sufficient | | | |
| 3 | Ware there federally reportable incidents during the provious year? | v | | |
| 5. | were there rederany reportable incidents during the previous year? 0 | Á | | |

| 4. | Were Incident reports reviewed for accuracy and trends? If any trends discovered please | X | |
|----|--|---|---|
| | describe: | | |
| | | | |
| | NWN has 15 2019 incident notifications. No Federal reportable incidents for the | | |
| | operator in 2019. | | |
| | | | |
| | Ie - unscheduled interruption of 25 or more 2a - blowing gas > 2 hours 2b - high | | |
| | pressure, transmission | | |
| | 1e - unscheduled interruption of 25 or more | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 2a - blowing gas > 2 hours | | |
| | 2a - blowing gas > 2 hours | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 2a - blowing gas > 2 hours | | |
| | 2a - blowing gas > 2 hours | | |
| | 1c - evacuation of building or HCA structure or area 2a - blowing gas > 2 hours | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | 1c - evacuation of building or HCA structure or area | | |
| | | | |
| | The incidents are primarily caused by 3 rd party damages. There were no apparent | | |
| | trends associated with, for example, operator error, corrosion, or material failure. | | |
| 5. | Were there reportable or unreportable safety related conditions during the previous year? If | | Х |
| | yes please describe. Please refer to Column 1 Row 2 in the header. This is a repeated | | |
| | question. | | |
| 6. | Were there any abnormal operating conditions (as described in 49 CFR 192.605 (c) or 49 | | Х |
| | CFR 195.402(d))? If yes please describe. None per clarifying discussion on 11/6/2019 | | |
| 7 | Were there changes to the O&M Manual during the previous year? | Х | |
| | | | |
| | The Field Operations Manual changes are very detailed with page and procedure | | |
| | numbers. | | |
| | | | |
| | Release warch 25, 2018 changes are found in the following subject matter areas: | | |
| | Responding to Venting Poliofs | | |
| | Responding to Venting Renets Installing District Regulators and Reliefs | | |
| | Activating District Regulators and Reliefs | | |
| | Maintaining District Regulators and Reliefs | | |
| | Maintaining Worker Monitor and Monitor Worker Regulators | | |
| | Installing Primary Service Regulators | | |
| | Activating Primary Service Regulators | | |
| | Maintaining Primary Service Regulators | | |
| | Deactivating Meters | | |
| | Glossary | | |
| | Setting Pressure | | |
| | Hard Copy Forms | | |
| | | | |
| | The Field Operations Manual is now available online at fom.nwnatural.com | | |

| | iges acceptable: 1 | es | | | Λ | |
|--|---|--|--|---|---|---|
| s the O&M | Manual up to date? | Yes, and | changes are communicated throu | gh | Х | |
| /lanageme hanges. | ocedure | | | | | |
| "NW Natu organizati controls] applicable standard o Additional each cover parties by means." T | Iral uses existing co on (i.e., PRISM, St .). Change for the and current Stand operating procedur lly, for internal co red pipeline segmen memos, "HUB" in TIMP Rey 19 3/29/2 | ompany cha andard Pra purpose of lard Practi res, or equi mmunication t and to th tranet upda 2019 | ange processes to manage change actice, Project Systems [SAP Proj MOC is generally defined as a de ces, Engineering or Material Spec valent." TIMP Rev 19 3/29/2019 on, "NW Natural communicates c he integrity management plan to a ates, meetings, refresher training | in the ect viation from cifications, changes to ffected or by other | | |
| Were emerg | gency plans changed | d during the | previous year? | | | X |
| Below is th major cha | e plan revision log nges. | from NWN | N's EP. It was reviewed but there | were no | | |
| Date | Section/Pages | Rev | Primary Change | Approved | | |
| August 2017 | Full Plan | 2016- 00 | Comprehensive update of plan, including reorganization of | T. Felix | | |
| August 2018 | Full Plan | 2018- 01 | Comprehensive review of Base Plan, Annexes and Tabs. | T. Felix | | |
| | | | | |] | |
| Were the ch hanges. Were there TIMP Chan TIMP plan. | nanges satisfactory? changes to the Integ nge Log – This is co | NWN p grity manag ontained in <u>TIM</u> | eerformed a plan review - there we ement program (TIMP and DIMP fo Appendix M – outside of the sub <u>P Changes</u> | ere no major or LDC's)? mitted | X | X |
| Were the ch hanges. Were there 'IMP Chan 'IMP plan. Date | nanges satisfactory? changes to the Integ nge Log – This is co Section | NWN p grity manag ontained in <u>TIM</u> Rev | eerformed a plan review - there we ement program (TIMP and DIMP fo Appendix M – outside of the sub- P Changes Primary Change | ere no major or LDC's)? mitted | X | X |
| Were the ch hanges. Were there TIMP Chan TIMP plan. Date 4-2- 2019 | hanges satisfactory? changes to the Integ nge Log – This is co Section All Sections | NWN p grity manage ontained in <u>TIM</u> Rev Rev 19 | eerformed a plan review - there we eement program (TIMP and DIMP for Appendix M – outside of the submergement P Changes Changed plan review dates and footers to reflect 2019 annual review. To include page numbering. | ere no major or LDC's)? mitted Approved CAW | X | x |
| Were the ch hanges. Were there YIMP Chan YIMP plan. Date 4-2- 2019 | hanges satisfactory? changes to the Integ nge Log – This is co Section All Sections Cover | NWN p grity manage ontained in <u>TIM</u> Rev Rev 19 | performed a plan review - there were ement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix M – outside of the substratement program (TIMP and DIMP for a Appendix Appendix Appendix Appendix Appendix Appendix Appendix | ere no major or LDC's)? mitted Approved CAW CAW | X | x |
| Were the ch hanges. Were there YIMP Chan YIMP plan. Date 4-2- 2019 | hanges satisfactory? changes to the Integ nge Log – This is co Section All Sections Cover Introduction | NWN p grity manage ontained in <u>TIM</u> Rev Rev 19 | Derformed a plan review - there were ement program (TIMP and DIMP for Appendix M – outside of the submerge P Changes P Changed plan review dates and footers to reflect 2019 annual review. To include page numbering. Changed cover date to reflect new year Changed TIMP Organization Chart to reflect personnel changes | ere no major or LDC's)? mitted Approved CAW CAW CAW CAW | | X |

| | Section 3.1 | | Added "Seismic or Landslide Activity" and "Buildovers" to table 3-1 | SRL | |
|---|--|---|--|---|--|
| | Section 4.2.4 | | Noted that NW Natural does not group pipelines from different states into different regions. | SRL | |
| | Section 4.3 | | Noted that 3 indirect inspections are done for new pipelines. | SRL | |
| | Section 4.4.1 | | Added Table 4-3b – Severity Classification Matrix from NACE | SRL | |
| | | DIM | P Changes | | |
| he threat ra ne same thro | nks in the 2017 and eat ranks. | l 2018 p | lans changed. The 2018 and 2019 pl | ans have | |
| • Exca | avation Damage (1) | | | | |
| Othen Mat Equiting Othen Othen Correst Nature Excave Othen Mate Equiting Incorrest Othen Othen Equiting Incorrest Othen D18 Rev 9 D | er Outside Force (8) erial, Weld or Joint ipment Failure (3) orrect Operation (6) er concerns that cou osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint 1 pment Failure (7) rect Operation (5) r concerns that coul ine. (3) |) Failure Ild threa d threat | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan | tion pipeline. on did not | |
| Othen Mat Equiting Othen Othen Correst Nature Excare Othen Mate Equiting Incore Othen Difference Difference Difference Contain a chara | er Outside Force (8) erial, Weld or Joint ipment Failure (3) orrect Operation (6) er concerns that cou osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint 1 pment Failure (7) rect Operation (5) r concerns that coul ine. (3) DIMP changes are do inge log. |) Failure Id threa d threat etailed h | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan | tion pipeline. on did not | |
| Othen Mate Equipeling Othen Othen Correst Nature Excave Othen Mate Equipeling Incorrest Othen Date | er Outside Force (8) erial, Weld or Joint ipment Failure (3) orrect Operation (6) er concerns that cou osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint pment Failure (7) rect Operation (5) r concerns that coul ine. (3) PIMP changes are deinge log. |) Failure Ild threa Failure d threat etailed h | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan | tion pipeline. on did not Approved | |
| Othen Mat Equities Othen Othen Correst Nature Excave Othen Mate Equities Incorrest Othen Incorrest < | er Outside Force (8) erial, Weld or Joint ipment Failure (3) orrect Operation (6) er concerns that cou- osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint I pment Failure (7) rect Operation (5) r concerns that coul- ine. (3) PIMP changes are de- inge log. <u>Section</u> Page 1 (cover) |) Failure Ild threa Failure d threat etailed b | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan Primary Change Changed Date | tion pipeline. on did not <u>Approved</u> CAW | |
| Othen Mat Equination Othen Othen Correst Othen Correst Nature Excare Othen Mate Equination Othen Incore Incore Othen Incore Incore Othen Incore Othen Incore Othen Incore I | er Outside Force (8) erial, Weld or Joint ipment Failure (3) prrect Operation (6) er concerns that cou- osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint pment Failure (7) rect Operation (5) r concerns that coul- ine. (3) DIMP changes are de- inge log. <u>Section</u> Page 1 (cover) Page 12 Table |) Failure Id threat d threat etailed b <u>Rev</u> 9 9 | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan Primary Change Changed Date Formatted and updated ORG. | on did not Approved CAW CAW | |
| Othen Mat Equities Incon Othen Othen Corres Nature Excare Othen Mate Equities Incon Othen Othen Incon Incon< | er Outside Force (8) erial, Weld or Joint ipment Failure (3) prrect Operation (6) er concerns that cou- osion (4) ral Forces (6) vation Damage (1) r Outside Force (8) rial, Weld or Joint I pment Failure (7) rect Operation (5) r concerns that coul- ine. (3) PIMP changes are de- inge log. <u>Section</u> Page 1 (cover) Page 12 Table Page 27 |) Failure Id threa failure d threat etailed b 9 9 9 | e (2) aten the integrity of the gas distribut (2) ten the integrity of the gas distributi below. The 2019 Rev 10 DIMP plan Primary Change Changed Date Formatted and updated ORG. Re-ordered Risk Entered System MAOP DIMP 57, 50 | on did not CAW CAW CAW | |

UTC Pipeline Safety Annual Review Checklist

| | 4/4/20 | 018 Charts | n back | 9 added 2017 data C. | | | CAW | | | |
|----|---|--|--|---|--|---|--|--|---|-------|
| | 4/4/20 | 018 Bottom | of pages | 9 | 9 updated REV and Date | | nd Date | CAW | | |
| 13 | Is the integrity management program up to date? What are the results of the operators program review (effectiveness evaluation) (DIMP every 5 years)? NWN documents the effectiveness review in Appendix E of the DIMP with charts and or data and performs this each year. Damages per 1000 locates is down from 3.7% in 2017 to 3.3% in 2018. Hazardous leaks repaired by material is only down by 1 from 2017 to 2018 for polyethylene pipe. Are the changes acceptable? Yes, NWN reordered some risk ranking and data from the 2010 A much Benerit mention with the | | | | | | | | | |
| 15 | model a | inual Report | elop. | 2020 will cont | | analyze | more informa | ation with the | | |
| 15 | Is appro of IMP ECDA | priate assess activities) De as its assess Lo | nent/ repair w nnis Ritter p nent method f | ork conducted erformed a T for the two H Reaso | during IMP in CAs as | the past spection identifie | year? (monito in 2018. NV d in the table HCA | r progress VN uses below. Verified | X | |
| | 1 | Lacama | as Heights n. Sch. | Identified and Sch | sites ool | 0.9 | YES -Vali 09-27 | dated 2016- | | |
| | 2 | Lacamas | Lake Area | Identified | Sites | 0.6 | YES - Val 09-27 | idated 2016- | | |
| | There v | vere no repoi | table repairs | s since the las | t assess | ment dat | te. | | | |
| | НСА | Tool(s), or assessment method(s) | Assessm | ent review esults | F Asso | Prior essment date | Assessment date | Next Assessment date | | |
| | 1 | ECDA | No Repor | table Repairs | 6/1 | 1/2011 | 9/10/2016 | 2023 | | |
| | 2 | ECDA | No Repor | table Repairs | 6/1 | 1/2011 | 9/10/2016 | 2023 | | |
| 16 | What as Camas | sessment wor P-04 line for | k is planned f 2019 | or the upcomi | ng year | ? No w | ork is occurri | ng on the | | Х |
| 17 | Camas P-04 line for 2019Has appropriate DIMP remediation work occurred during the past year? (monitor progress of DIMP activities) NWN's DIMP program and NWN's Pipeline Replacement Plan (PRP) are closely related. The PRP and DIMP both indicate that the need for system replacement due to cast iron line pipe, bare steel line pipe, Aldyl-A/Aldyl-HD, corrosion, etc. does not presently exist. Celcon caps are being replaced as they are found but NWN considers the caps a lower threat. As such, DIMP pipeline system remediation work based on material type is not occurring. | | | | | | | | Х | |
| 18 | What DI DIMP re AS NWN "The sin Natural commun | MP remediation mediation w N's PRP state ngle largest the maintains a p icate, cooper | on work is an ork occurrin s: reat to NW robust damag ate, and coor | ticipated for u g. Natural's fac ge prevention rdinate with g | comin lities is progra overnn | g year? s third pa am in the nent agei | There is not s arty damage. I State of Was acies, municip | significant NW hington to palities, | | X |

| | utilities, contractors, customers, the general public, and other stakeholders to reduce the number to third party damages." NWN is also working to increase the effectiveness of its Geographic Information | | |
|----|---|---|--|
| | System (GIS) which is key to analyzing multiple variables for continued analysis. | | |
| 19 | Were there changes to the Operator Qualification program? If yes, please describe. | Х | |
| | Please reference the 2019 OQ program inspection I performed in April 2019 for more detail. | | |
| 20 | Is the Operator Qualification program up to date? Yes, Please reference the 2019 OQ program inspection I performed in April 2019 for more detail. | Х | |
| 21 | Are plan updates satisfactory? Please reference the 2019 OQ program inspection I performed in April 2019 for more detail. | Х | |
| 22 | Are personnel performing covered tasks (including contractors) properly qualified and requalified at intervals determined in the operators plan? Yes - Please reference the 2019 OQ program inspection I performed in April 2019 for more detail. | X | |
| 23 | Were there changes to the public awareness program? Yes - There were section headings added in the 2019 plan. Bill messages and bill envelope messages were removed from the 2019 plan. | X | |
| 24 | Is the public awareness program up to date? The PA program revision we currently have on file was submitted 4-15-2019. Mentioned in NWN's PA program plan is the cross reference to SP 619: "NW Natural has a written company policy, Standard Practice 619, "Customer and Public Education, "that emphasizes the importance of public awareness. This policy is available to employees through the Company Intranet. This policy is reviewed at least once every calendar year for compliance with49 CFR Part 192." | Х | |
| 24 | Are changes to the public awareness program satisfactory? I did not note any major changes to NWNs plan. The matrix on pg.40 of the plan demonstrates for each month what stakeholders were contacted and by what messaging method. | Х | |
| 26 | Is the following information on the operator's web page? (Not a regulatory question) Pipeline purpose and reliability https://www.nwnatural.com/Business/BenefitsOfGas Damage Prevention https://www.nwnatural.com/Business/Safety Pipe location information https://www.nwnatural.com/business/safety/pipelinelocationinformation How to get additional information https://www.nwnatural.com/business/safety/pipelinelocationinformation How to get additional information https://www.nwnatural.com/business/safety/pipelinelocationinformation National Pipeline Mapping system https://www.nwnatural.com/business/safety/pipelinelocationinformation On call requirements (On call requirements are under earthquake preparedness) https://www.nwnatural.com/Business/Safety/EarthquakePreparedness Potential Hazards https://www.nwnatural.com/Business/Safety/SafetyTips | X | |

| | Provention mansuras | | |
|----|--|---|-------|
| | Frevention measures https://www.pwpatural.com/Pacidential/Safaty/FarthquakeProparadpass | | |
| | Lesk/ domage recognition | | |
| | • Leak damage recognition | | |
| | https://www.nwinatural.com/Residential/Safety/GasLeaks/SmenRottenEggs | | |
| | • ROw encroachment | | |
| | https://www.nwnatural.com/business/safety/pipelinerightofway | | |
| | Pipeline location information | | |
| | https://www.nwnatural.com/business/safety/pipelinelocationinformation | | |
| | Integrity management programs | | |
| | https://www.nwnatural.com/Business/Safety/PipelineIntegrityManagementProgram | | |
| | Emergency preparedness | | |
| | (Earthquake preparedness) | | |
| | https://www.nwnatural.com/Business/Safety/EarthquakePreparedness | | |
| 25 | | | |
| 21 | Were there changes to the Control Room Management Program? NWN's annual review was | Х | |
| | performed by Jeremy Coleman on 12/07/2018 (Manager, Gas Control) The version | | |
| 28 | received by the UTC on 4/15/19 is Revision 6.0, 12/20/2017. There were no changes. | V | |
| 20 | by the UTC was by Lex Vinsel in 04/27/2016. NWN's annual review was performed by | Х | |
| | Jeremy Coleman on 12/07/2018 (Manager, Gas Control) | | |
| 29 | Are the control room management program changes satisfactory? No changes noted since | | |
| | the 2016 UTC inspection. | | |
| 20 | | | Х |
| 30 | Are inspection units broken down appropriately? Do you recommend any changes to | Х | |
| | inspection units in terms of size? No changes in inspection unit size recommended. | | |
| 31 | We as the second flow and the second se | | V |
| 01 | review ² . Eleve reversals on conversion to service have not occurred on NWN's Compa | | Λ |
| | Transmission line | | |
| 32 | If yes, is the operator taking appropriate actions in accordance with ADB 2014 042 | | X |
| | If yes, is the operator taking appropriate actions in accordance with ADD-2014-04? | | 21 |
| | This advisory bullatin is from two recent nincline failures accurred on bezardous liquid | | |
| | ninelines where the flow had been reversed (From the Federal Register) The Tesoro | | |
| | High Plains Pipeline rupture was discovered on September 29, 2013, after leaking an | | |
| | estimated 20,000 barrels of crude oil in a North Dakota field. The location of pressure | | |
| | and flow monitoring equipment had not been changed to account for the reversed flow. | | |
| | The Pegasus Pipeline failed on March 29, 2013, releasing about 5,000 barrels of crude oil | | |
| | into a neighborhood in Faulkner County, Arkansas. | | |
| | | | |
| | ***Flow reversals or conversion to service have not occurred on NWN's Camas | | |
| | Transmission line*** | | |

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