

**Utilities and Transportation Commission
Pipeline Safety
Operator Annual Review Checklist**

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/Docket Number	7813		
Inspector Name & Submit Date	Dave Cullom - Submitted 10/3/2019		
Chief Eng Name & Review/Date	Joe Subsits, 10/3/2019		
Operator Information			
Name of Operator:	Cascade Natural Gas	OP ID #:	2128
Records Location:	Kennewick, Wa		
Inspection Date:	April 2, 2019 and September 24, 2019		

<p>Review Summary:</p> <p>This annual review contains information derived from operator interviews, annual reports, field observations, standard inspections, DIMP/TIMP updates, updated Pipeline Replacement Plans, and specialized program reviews. Cascade is currently conducting system replacement in the Longview and Mt. Vernon districts, with additional replacement projects occurring on the east side of the state. There are three replacement projects planned for east of the Cascades of Pre-1970 pipeline segments in Yakima and Wenatchee. A Pipeline Replacement Plan (PRP) was submitted this year and CNGC has filed a proximity request for the Southridge H.P. Line #20 for the Fall of 2019 once pressure testing is completed. No issues were noted in the annual review or during the standard inspections for the CNGC units of Walla Walla, Bellingham, Shelton, or Yakima during the 2019 inspection cycle.</p>
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HQ Address: 400 North 4th Street, Bismarck, North Dakota 58501	System/Unit Name & Address: 8113 W Grandridge Blvd Kennewick, Wa 99336	
Co. Official: Pat Darras Phone No.: (701) 222-7611 Fax No.: No data in Quick Base Emergency Phone No.: (888) 522-1130	Phone No.: Fax No.: Emergency Phone No.:	
Persons Interviewed	Title	Phone No.
Sam Hamilton	Manager, Compliance Operations Programs	(509) 734-4595
Colby Lundstrom	Compliance, Audit Specialist	(509) 520-0718

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SYSTEM OPERATIONS

Number of reportable safety related conditions last year: 0 per the 2018 Transmission Annual Report.	Number of deferred leaks in system: 426 (2019 filing year) 339 (2018 filing year)
Number of <u>non-reportable</u> safety related conditions last year 0 per SH with CNGC	Number of excavation damage hits last year: 231
Miles of transmission pipeline within unit (total miles and miles in Class 3 & 4 locations): 164.9 miles Class 1 52.51 Class 2 64.05 Class 3 48.34 Class 4 0	Miles of main within system (total miles and miles in Class 3 & 4 locations): 4862.98 in the 2018 filing – not spilt out by Class locations 4932.74 in the 2019 filing – not spilt out by Class locations
Previously documented operating pressure(s) from prior inspections in psig: Bellingham 644 O1-Prosser 240 O2-Grandview 120 O3-Grandview 235 05-Sunnyside 140 06-Sunnyside 180 07-Sunnyside 130 O8-Zillah/Granger/Toppenish/Wapato350 O9-Grandview 130 O1-Moxee 235 O2-Yakima 185 O3-Selah 149.5 O4-Selah 234 R43 Yakima 58 R3 Yakima Backup 57 R12 Moxee 58 R39 Moxee Backup 58 R5 Yakima 57 R17 Selah 57 R45 Sunnyside 50 R08 Sunnyside Backup 50 R54 Grandview 58 R11 Granger Toppenish 36 R60 Zillha 54 R22 Toppenish 54 R25 Toppenish 54 R28 Wapato 54	MAOP (in psig): Bellingham 780 O1-Prosser 250 O2-Grandview 130 O3-Grandview 250 05-Sunnyside 160 06-Sunnyside 200 07-Sunnyside 150 O8-Zillah/Granger/Toppenish/Wapato400 O9-Grandview 300 O1-Moxee 250 O2-Yakima 200 O3-Selah 275 O4-Selah 250 R43 Yakima 60 R3 Yakima Backup 60 R12 Moxee 60 R39 Moxee Backup 60 R5 Yakima 60 R17 Selah 60 R45 Sunnyside 51 R08 Sunnyside Backup 51 R54 Grandview 60 R11 Granger Toppenish 41 R60 Zillha 60 R22 Toppenish 60 R25 Toppenish 60 R28 Wapato 60































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Does the operator have any transmission pipelines?	Yes, Please reference previously answered question above.
Compressor stations? Use Attachment 1.	1 in Mt Vernon (Fredonia). There is no attachment 1 contained in this annual review form.

Pipe Specifications:			
Year Installed (Range)	Pre-1940 to present	Pipe Diameters (Range)	½" to 20"
Material Type	Steel and Polyethylene	Line Pipe Specification Used	API5L ASTM D2513
Mileage	Distribution 2018 total Transmission 2018 total 164.9 miles	SMYS %	3.2 miles over 40% <= 50% 34.06 miles over 30% <= 40% 118.48 miles over 20% <= 30% 9.12 miles < 20%

REVIEW QUESTIONS		S/Yes	U/No	N/A
1.	Was the Annual Report reviewed for accuracy and trends? If any trends discovered, please describe: The number of known leaks in the system at the end of the year has gone up. 426 (2019 filing year)) 339 (2018 filing year) Miles of main seems consistent with system upgrades and development for the 2018 and 2019 filings.	X		
2.	For transmission operators, has the operator submitted information to the NPMS database, along with changes made after the original submission? Sam Hamilton provided the email that PHMSA sent back to them. 2/20/2019 it was sent. On 5/15/2019, the email response was sent back***	X		
3.	Were there federally reportable incidents during the previous year? None for 2018. One in 2017 and then it was reported in 2018.	X		
4.	Were Incident reports reviewed for accuracy and trends? If any trends discovered please describe:	X		
5.	Were there reportable or unreportable safety related conditions during the previous year? If yes please describe. This question is repeated from the table on the first page. There were none.		X	
6.	Were there any abnormal operating conditions (as described in 49 CFR 192.605 (c) or 49 CFR 195.402(d))? If yes please describe This operator operates the transmission line in conjunction with the distribution system.			X

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7	<p>Were there changes to the O&M Manual during the previous year? There is a change log in the back of the manual and CNGC uses the MOC process for all changes. CNGC submitted updated manual sections for 2019 covering these subject areas.</p> <div style="border: 1px solid #ccc; padding: 5px; margin: 5px 0;"> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15px;"></td> <td style="width: 55%;">742-19 Compressor Station Operation and Maintenance Rec'd 1-15-19</td> <td style="width: 10px; text-align: center;">...</td> <td style="width: 20%;">January 29</td> </tr> <tr style="background-color: #e1f5fe;"> <td style="text-align: center;"><input checked="" type="checkbox"/></td> <td>OPS 11</td> <td style="text-align: center;">...</td> <td>February 7</td> </tr> <tr> <td></td> <td>615-19 Trenchless Installation of Mains and Services</td> <td style="text-align: center;">...</td> <td>February 7</td> </tr> <tr> <td></td> <td>607-19 PE Main and Service Constructionn</td> <td style="text-align: center;">...</td> <td>February 13</td> </tr> <tr> <td></td> <td>OPS 10 Gas Non Emergency Notification and Reporting</td> <td style="text-align: center;">...</td> <td>April 3</td> </tr> <tr> <td></td> <td>CNGC New and Revised Procedures</td> <td style="text-align: center;">...</td> <td>April 3</td> </tr> <tr> <td></td> <td>OPS 800 Operator Qualification Plan (rec'd 05-31-19)</td> <td style="text-align: center;">...</td> <td>June 3</td> </tr> <tr> <td></td> <td>OPS 800 Cover Letter (rec'd 05-31-19)</td> <td style="text-align: center;">...</td> <td>June 3</td> </tr> <tr> <td></td> <td>925-19 Emergency Policy</td> <td style="text-align: center;">...</td> <td>July 24</td> </tr> <tr> <td></td> <td>OPS 9 Gas Emergency Notification and Reporting</td> <td style="text-align: center;">...</td> <td>July 24</td> </tr> <tr> <td></td> <td>OPS 609 Standards for Transportation of Natural Gas and Other Gas by Pipeline (rec'd 8-8-19)</td> <td style="text-align: center;">...</td> <td>August 8</td> </tr> </table> </div> <p>The changes are located here: CNGC O&M Changes</p>		742-19 Compressor Station Operation and Maintenance Rec'd 1-15-19	...	January 29	<input checked="" type="checkbox"/>	OPS 11	...	February 7		615-19 Trenchless Installation of Mains and Services	...	February 7		607-19 PE Main and Service Constructionn	...	February 13		OPS 10 Gas Non Emergency Notification and Reporting	...	April 3		CNGC New and Revised Procedures	...	April 3		OPS 800 Operator Qualification Plan (rec'd 05-31-19)	...	June 3		OPS 800 Cover Letter (rec'd 05-31-19)	...	June 3		925-19 Emergency Policy	...	July 24		OPS 9 Gas Emergency Notification and Reporting	...	July 24		OPS 609 Standards for Transportation of Natural Gas and Other Gas by Pipeline (rec'd 8-8-19)	...	August 8	X		
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8	Are the changes acceptable?	X																																														
9	Is the O&M Manual up to date?	X																																														
10	Were emergency plans changed during the previous year? The emergency plan was recently updated in April 2019. There were no changes in 2018.	X																																														
11	Were the changes satisfactory?	X																																														
12	Were there changes to the Integrity management program (TIMP and DIMP for LDC's)? DIMP Risk Model Calculation updates and program appendices were made in 2018. The operator states that no changes have been made since the December 2018 UTC inspection. The TIMP audit performed in Sept 2017 and the program was updated on 3-28-2018. Section 14 was added. Sections revised were 5.2.3, 8, 9, 10, 11 and the form QCP-6.	X																																														
13	<p>Is the integrity management program up to date? What are the results of the operators program review (effectiveness evaluation) (DIMP every 5 years)? TIMP performance measures were reviewed on 6/29/2018, HCA survey completed in January- February 2019</p> <p>DIMP Risk model calculation updates were made in 2018 and inspected by Dennis Ritter in December 2018. The operator states no changes have been made since the 2018 audit.</p>	X																																														
14	<p>Are the changes acceptable?</p> <p>I reviewed the DIMP program during the Pipeline Replacement Plan review and the program objectives are consistent with the updated PRP.</p>	X																																														

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15	Is appropriate assessment/ repair work conducted during the past year? (monitor progress of IMP activities) The operator states they have conducted External Corrosion Direct Reassessment and Baseline assessments in Bellingham and Mt. Vernon. I observed several DTC projects throughout 2019 and pressure tests for MAOP reauthorization	X		
16	What assessment work is planned for the upcoming year? Confirmatory ICDA in Aberdeen, Bremerton, Bellingham Confirmatory ECDA in Mt Vernon Baseline ECDA in Mt Vernon	X		
17	Has appropriate DIMP remediation work occurred during the past year? (monitor progress of DIMP activities) CNGC completed work on pipeline replacement projects in Anacortes, Shelton, and Longview/Kelso. CNGC also indicated it was performing data cleanup in the GIS and damage prevention outreach.	X		
18	What DIMP remediation work is anticipated for upcoming year? CNGC continues work on pipeline replacement work in Anacortes, Shelton, and Longview/Kelso, Yakima, and Wenatchee.	X		
19	Were there changes to the Operator Qualification program? If yes, please describe. Starting 1/1/2018 CNGC switched from MEA to Energy WorldNet for training, OQ records, and contractor management.	X		
20	Is the Operator Qualification program up to date? The addendum to the OQ plan was received in May. OPS 800 Operator Qualification Plan (rec'd 05-31-19)	X		
21	Are plan updates satisfactory?	X		
22	Are personnel performing covered tasks (including contractors) properly qualified and requalified at intervals determined in the operators plan?	X		
23	Were there changes to the public awareness program? It was updated 9/18/18 See change log for details.	X		
24	Is the public awareness program up to date? A full PA program audit will be conducted November 13 and 14, 2019	X		
24	Are changes to the public awareness program satisfactory? A full PA program audit will be conducted November 13 and 14, 2019	X		

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26	<p>Is the following information on the operator's web page? (Not a regulatory question)</p> <ul style="list-style-type: none"> • Pipeline purpose and reliability. • https://www.cngc.com/in-the-community/about-us/ • Damage Prevention • https://www.cngc.com/safety-education/public-awareness/ • https://www.cngc.com/safety-education/call-before-you-dig/ • Pipe location information • https://www.cngc.com/safety-education/ • How to get additional information • https://www.cngc.com/safety-education/call-before-you-dig/ • National Pipeline Mapping system • https://www.cngc.com/safety-education/ • On call requirements • https://www.cngc.com/safety-education/emergency-information/ • Potential Hazards • https://www.cngc.com/safety-education/emergency-information/ • Prevention measures • Link to https://commongroundalliance.com/ • Leak/ damage recognition • https://www.cngc.com/safety-education/emergency-information/ • ROW encroachment • http://cngc.com/wp-content/uploads/PDFs/Brochures/2019_june/2019_05_07_cngc_pipeline_safety_june_optimized.pdf • Pipeline location information • https://www.cngc.com/safety-education/ • Integrity management programs • https://www.cngc.com/?s=replacement • Emergency preparedness • https://cngc.com/wp-content/uploads/PDFs/Brochures/2019_february/2019_cngc_emergency_gas_shutoff_digital.pdf 	X		
27	Were there changes to the Control Room Management Program? It was updated 1/1/2018.	X		
28	<p>Is the control room management program up to date?</p> <p>The last inspection was by Lex Vinsel in 2017. There was an item of concern about records retention of training program content and CNGC agreed to utilize a formalized recordkeeping process moving forward.</p>	X		

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29	<p>Are the control room management program changes satisfactory? CP 930 Revision Date: June 11, 2019 was received June 17, 2019.</p> <p>https://home.utc.wa.gov/sites/PipelinePrivate/Company%20Manuals%20CD/Cascade%20Natural%20Gas%20Corporation/CRM/930-19%20Control%20Room%20Management%20(rev'd%2006-12-19).docx</p> <p>Changes reviewed since the last UTC inspection are detailed below:</p> <p>1-10-18</p> <p>8.6.10 – Added clarification to points affecting safety and added to table.</p> <p>04-09-18</p> <p>Completed Annual Review</p> <p>8.9.1. – Changed “Energy U” to “Energy WorldNet”</p> <p>11-02-18</p> <p>7.16 Changed Manager of Standards and Compliance to Manager, Compliance and Operations</p> <p>8.5.1.3 Updated work week</p> <p>8.9.8 Updated team training frequency</p> <p>Added wording for new Backup Control Room</p> <p>6-11-19</p> <p>8.3.9. – Added “CNGC GC will notify the GC Management Team. After assessing the situation, GC may notify Gas Supply, district supervision (e.g. On-call supervisors, district managers, and/or region directors) as needed. After initial notification to district supervision, the notified supervisor will be responsible for additional notifications as they deem necessary.</p> <p>8.6.2.3 – Removed “meter alarms” from list</p> <p>Removed previous step 8.3.10 regarding instructions for notifiable events</p> <p>Completed Annual Review</p>	X		
30	<p>Are inspection units broken down appropriately? Do you recommend any changes to inspection units in terms of size? No changes recommended</p>	X		
31	<p>Were there any flow reversals, product changes, or conversions to service since the last review? None</p>			X
32	<p>If yes, is the operator taking appropriate actions in accordance with ADB-2014-04?</p>			X

PHMSA ADVISORY BULLETINS: [LINK](#)