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Date: 1/03/2022

Subject: Proximity Request – Richland Lateral Phase I Proximity Request

Sender: Colby Lundstrom, Manager of Compliance and Operations Programs Cascade Natural Gas Co.

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Identification of Proceeding: N/A

Identification of Documents: CNG – RICHLAND LATERAL PHASE I – PROXIMITY REQUEST 1/3/2022

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State Of WASH AND TRANSP

COMMISSION



January 3rd, 2022

Sean Mayo Director, Pipeline Safety Utilities & Transportation Commission PO Box 47250 Olympia, WA 98504-7250

### Subject: WAC 480-93-020 Richland Lateral Phase I Proximity Request

Dear Mr. Mayo:

Pursuant to the requirements of WAC 480-93-020 Proximity Considerations, Cascade Natural Gas Corporation (CNGC) requests to operate the proposed pipeline at pressure of 500 psig within 100 feet of existing buildings or those that are under construction. CNGC is performing this work to maintain core customer needs and to have the ability to supply necessary capacities for future growth in Richland, WA.

#### **Proposed Scope of Work:**

The proposed pipeline consists of installing approximately 10,630-feet of 12-inch steel, 450-feet of 8-inch steel, 5,980-feet of 6-inch steel pipeline and one regulator station. This will connect to the existing Southridge high-pressure pipeline that operates within a 500 MAOP and the Richland 8-inch high-pressure pipeline that operates within a 250 MAOP. The complete route of this line is depicted on the attached aerial maps located in Appendix A. This Proximity Request is for approval to operate the Richland Lateral – Phase I pipeline and pending regulator station at a 500 MAOP.

The new regulator station proposed to be installed with this line is regulator station 133 (R-133). R-133 will tie-in the new Richland Lateral to the existing 8-inch, 250 psig MAOP line. The new regulator stations and associated pipeline necessary for their installation will be designed with a minimum component rating of 720 psig and will be pressure tested to a minimum of 750 psig.

At the proposed MAOP of 500 psig, the stress level of the regulator station, pipe, and pipeline fittings will be a maximum of 16.59% of the specified minimum yield strength. Thus, the Richland Lateral Phase I section will be classified as high-pressure distribution main, not Transmission. Ten percent (10%) NDT will be performed on all newly installed pipe.

Specifications of the 12-inch, 8-inch and 6-inch pipeline and associated facilities are as follows:

- All components (valves, line stoppers, etc.) will be ANSI Class 300 with a maximum working pressure rating of 720 psig.
- All pipe and associated fittings will consist of a Y52 grade.

### **Proximity & Alternatives:**

The Richland Lateral Phase I will be within 100 feet of 80 structures as shown in Appendix A.

Route analysis and protective measures were taken into consideration of the pipelines route and its proximity to the public and associated facilities. An alternative route was explored as detailed in Appendix B. This route was not chosen because this route alternative was within approximately 46 occurrences of buildings with the 100-foot radius of the pipeline including an elementary school and park. Phase II of the pipeline would also be of the same route along Leslie Rd which would include the same number of buildings with proximity to the pipeline for that section and it would require and upsize in pipe along that section from 6" steel to 12" steel to maintain the pipelines designed capacity output.

#### **Closing:**

CNGC respectfully requests your approval to operate the new 12" & 6" Richland high-pressure pipeline within a 500 MAOP. Construction is scheduled to begin February of 2022 upon approval of this request. If you have any questions or require additional information, feel free to contact me at (509) 734-4587 or via email at Colby.Lundstrom@mdu.com

Sincerely,

CASCADE NATURAL GAS

Colby Lundstrom 1/03/2022

Colby Lundstrom Manager of Compliance Ops. Programs

CC: Pat Darras Mike Schoepp Craig Chapin

Enclosures

Appendix A - Buildings within 100-foot proximity to the pipeline and facilities.

Appendix B - Route Alternative

## Appendix A

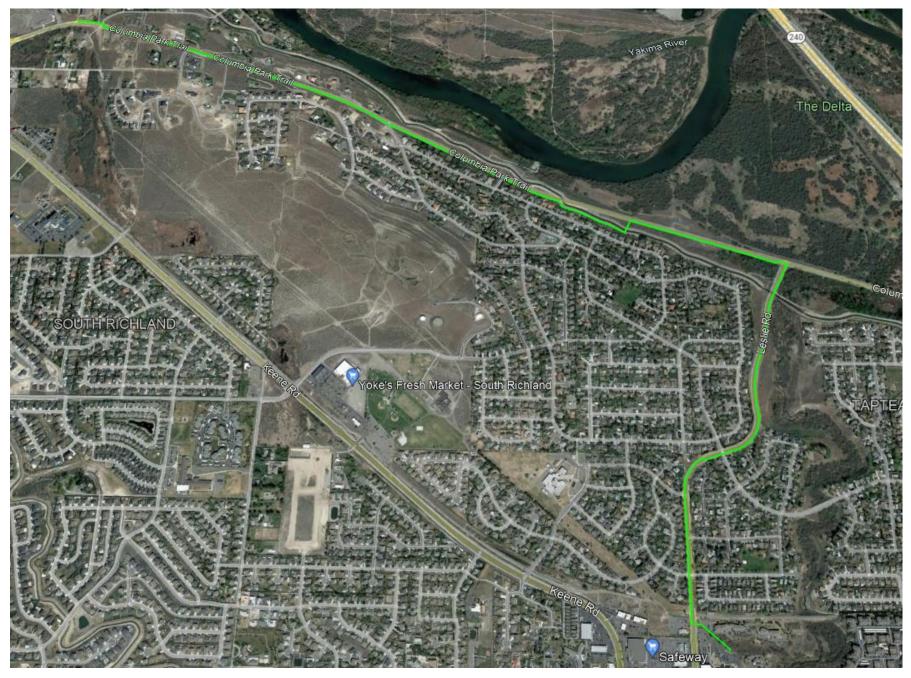


Figure 1: Overall view of the proposed Richland Lateral Phase I pipeline from the 6" 500 MAOP tie-in location (south) to the 8" 250 MAOP tie-in location (north)



Figure 2: Section of the proposed Richland HP Lateral showing its proximity to buildings 1-7 & 73 within the 100-foot boundary.



Figure 3: Section of the proposed Richland HP Lateral showing its proximity to buildings 8-29 & 74-77 within the 100-foot boundary.

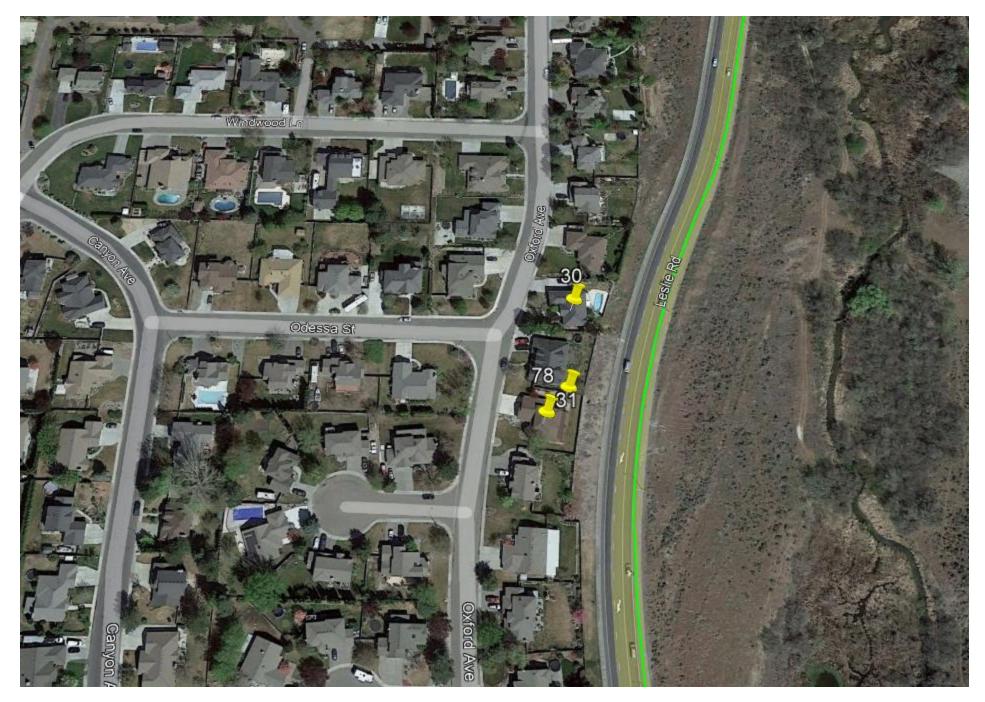


Figure 4: Section of the proposed Richland HP Lateral showing its proximity to buildings 30, 31 & 78 within the 100-foot boundary.



Figure 5: Section of the proposed Richland HP Lateral showing its proximity to buildings 32-47, 79 & 80 within the 100-foot boundary.



Figure 6: Section of the proposed Richland HP Lateral showing its proximity to buildings 48-70 within the 100-foot boundary.



Figure 7: Section of the proposed Richland HP Lateral showing its proximity to buildings 71 and 72 within the 100-foot boundary.

# **Proximity Buildings**

Bldg. #	Distance to HP	Bldg.
	Line (feet)	Description
1	99	Residence
2	90	Residence
3	99	Residence
4	99	Residence
5	73	Residence
6	72	Residence
7	88	Residence
8	94	Shed
9	63	Residence
10	90	Residence
11	76	Residence
12	56	Residence
13	59	Residence
14	60	Residence
15	56	Residence
16	83	Residence
17	73	Residence
18	53	Residence
19	52	Residence
20	35	Residence
21	67	Residence
22	66	Residence
23	64	Residence
24	84	Residence
25	82	Residence
26	92	Residence
27	76	Residence
28	72	Residence
29	90	Residence
30	99	Residence

	Distance to HP	Bldg.
Bldg. #	Line (feet)	Description
31	99	Residence
32	62	Residence
33	97	Residence
34	58	Residence
35	72	Residence
36	96	Residence
37	98	Residence
38	51	Residence
39	51	Residence
40	100	Residence
41	100	Residence
42	44	Residence
43	90	Residence
44	91	Residence
45	28	Shed
46	66	Shed
47	53	Residence
48	70	Residence
49	67	Shed
50	59	Residence
51	50	Residence
52	90	Residence
53	62	Residence
54	52	Residence
55	75	Residence
56	67	Residence
57	67	Residence
58	95	Residence
59	96	Residence
60	99	Residence

Bldg. #	Distance to HP Line (feet)	Bldg. Description
61	88	Residence
62		Residence
_	98	
63	82	Residence
64	78	Residence
65	54	Residence
66	63	Residence
67	82	Residence
68	83	Residence
69	93	Residence
70	80	Residence
71	84	Commercial
72	51	Residence
73	45	Shed
74	62	Shed
75	30	Garage
76	44	Garage
77	38	Garage
78	98	Shed
79	34	Shed
80	43	Shed

# Appendix B

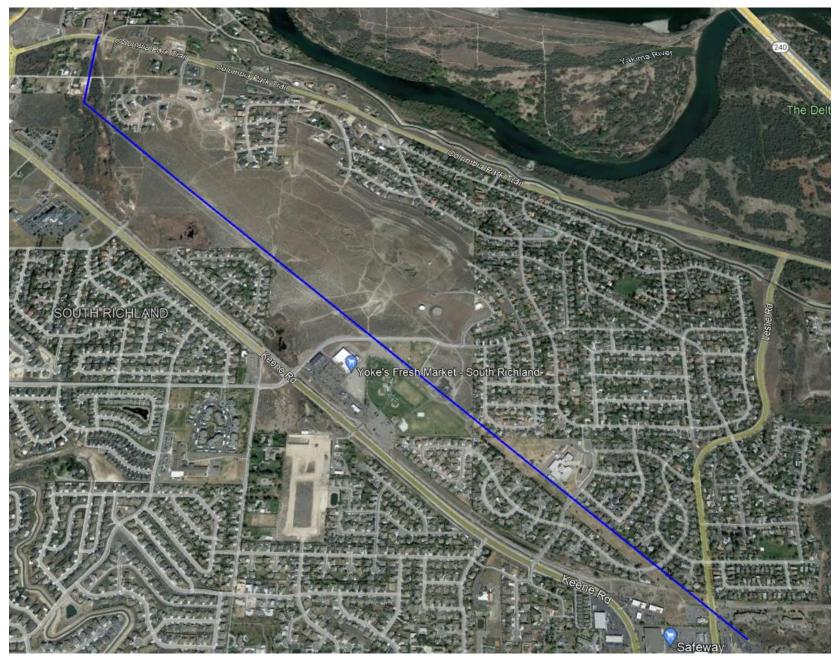


Figure 1: Alternate route consideration.