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Date: 3-23-2020

Subject: Proximity Request – South Walla Walla Gate Station Proximity Request

Sender: David Gutschmidt, Manager of Compliance Ops Programs
Montana-Dakota Utilities Co.

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Identification of Proceeding: NA

Identification of Documents: CNG-S. WALLA WALLA GATE STATION -PROXIMITY
REQUEST-3-23-2020

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March 23rd, 2020

Sean Mayo
Director, Pipeline Safety
Utilities & Transportation Commission
1300 S. Evergreen Park Dr. S.W
PO Box 47250
Olympia, WA 98504-7250

Subject: WAC 480-93-020 – Request for Approval – South Walla Walla Gate Station

Dear Mr. Mayo:

Pursuant to the requirements of WAC 480-93-020 Proximity Considerations, Cascade Natural Gas Corporation (CNGC) requests approval to operate a new gate station with 4-inch inlet pipe at a Maximum Allowable Operating Pressure (MAOP) of 850 psig within 500 feet of existing and new structures intended for human occupancy.

Proposed Scope of Work:

In order to serve the growing communities in and around the City of Walla Walla, Cascade is required to install a new Gate Station in Walla Walla County at an interconnect location with Northwest Pipeline (NWP). Aside from custody transfer of the gas, the gate station also odorizes the gas for distribution and reduces pressure from an MAOP of 850 psig to an MAOP of 250 psig.

The proposed gate station requires Cascade to reduce the pressure from NWP, and in doing so; Cascade would be required to operate facilities at an MAOP of 850 psig. Cascade is proposing to take custody of the gas at an MAOP of 850 psig and immediately reduce the pressure to 250 psig through a regulator station located at the gate.

The proposed new facilities to operate at an MAOP of 850 psig would include the inlet of the line heater and regulator station and a short segment of pipe from the custody transfer point leading into the line heater. The line heater, regulator station, and short pipe segment would lie aboveground, fully within the gate station grounds.

Proposed Regulator Station:

The proposed regulator station would be installed as shown in Figure 1. The existing NWP mainline, operates with an MAOP of 850 psig.

The proposed regulator station would be designed with a minimum component rating of 850 psig and would be pressure tested to a minimum of 1275 psig. At the proposed upstream MAOP of 850 psig, the maximum stress level of the pipe and pipeline fittings would be 15.52% of SMYS. At the proposed downstream MAOP of 250 psig, the maximum stress level of the pipe and pipeline fittings would be 6.4% of the SMYS. Thus, the pipeline would be classified as a high pressure distribution facility. One hundred percent (100%) non-destructive testing will be performed on all newly installed pipe at the regulator station.

Specifications of the regulator station, including the pipe segment from the custody transfer point to the inlet of the station, would be as follows:

- All pipe would be API 5L Grade X-52 Steel line pipe.
- All fittings (elbows, tees, caps etc.) would be standard weight, ANSI 16.9 WPHY-52.
- All components (valves, regulators, etc.) upstream of and including the regulator devices would be Class 600 with a maximum working pressure rating of 1440 psig.
- All components (valves, regulators, etc.) downstream of the regulator devices would be Class 300 with a maximum working pressure rating of 720 psig.

Proximity:

The proposed regulator station is located within 500 feet of the following buildings as shown on Figure 1:

- 150 feet from a new pipeline metering building owned and operated by NWP
- 80 feet from existing shop building at 3890 Pranger Road
- 500 feet from existing single-family residence at 1633 Ruzicka Road
- 325 feet from new construction single-family residence at 3796 Pranger Road.
- 485 feet from existing single-family residence at 3836 Pranger Road.

Of the buildings on the above list, none are currently greater than 500 feet from a pipeline facility operating at a pressure above 500 psig.

Alternatives:

An alternative to the chosen gate location was pursued and was not permitted by any other property owner along the NWP pipeline. CNGC believes the proposed regulator station location is the most practical as it is approved by the property owner, minimizes the length of pipe that CNGC would operate at pipeline pressure, and minimizes the level of proximity concerns to homes.

Closing:

CNGC respectfully requests your approval to move forward with the installation of the proposed South Walla Walla Gate Station project which is scheduled to begin construction at the beginning of June 2020. If you have any questions or require additional information, feel free to contact me at (509) 734-4535 or via email at david.gutschmidt@mdu.com

Sincerely,
CASCADE NATURAL GAS CORPORATION

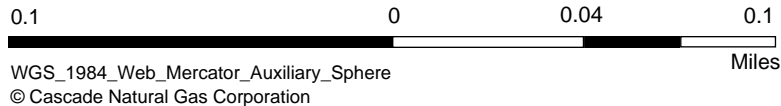
A handwritten signature in black ink that reads "David Gutschmidt". The signature is written in a cursive style with a large, sweeping flourish at the end.

David Gutschmidt
Manager of Compliance Operations Programs

CC: Michael Schoepp
Steve Kessie
Craig Chapin

Enclosures

Figure 1. South Walla Walla Gate Station Proximity Request



This map is a user generated static output from the GIS Web Viewer mapping website and is for reference only. It is not to be relied upon for construction purposes. It is provided for planning purposes only.
FIELD LOCATES ARE REQUIRED FOR LOCATION OF UTILITY FACILITIES

Notes:

