

DA2013-244

October 25, 2013

ATCO Gas and Pipelines Ltd. (South)
7210 – 42 Street N.W.
Edmonton, Alberta T6B 3H1

Attention: Mike Mayner
Project Engineer, EIT, Pipelines Engineering

Temporary Surface Pipeline at Wye Road and Anthony Henday Drive
Permit and Licence No. 3295
Application No. 1609992
Proceeding ID No. 2873

Minor pipeline project application

ATCO Gas and Pipelines Ltd. (South) (ATCO), by Application No. 1609992 registered on October 17, 2013, filed an application with the Alberta Utilities Commission (AUC or the Commission) under Section 11 of the *Pipeline Act* and Section 4.1 of the *Gas Utilities Act* to construct a temporary surface pipeline [Line 23 – 0.39 kilometres of 60.3 millimetre (mm) outside diameter (OD) pipeline] at the intersection of Wye Road and Anthony Henday Drive in the city of Edmonton. The proposed work is related to the temporary replacement of existing pipe previously constructed and operating under Licence No. 3295.

ATCO stated that the work approved under [DA2013-172](#) and [DA2013-213](#) is currently under construction. ATCO and the Joint Venture for the Northeast Edmonton Anthony Henday Drive (NEAHD) project had discussions regarding construction of the proposed pipelines and roadways on the west side of Anthony Henday Drive south of Wye Road because the existing 60.3 mm line (Licence No. 3295, Line 5) is in conflict with the proposed pipelines and proposed roadways. Both ATCO and the Joint Venture have agreed that installation of the pipelines and roadways near the existing 60.3 mm pipeline would be very difficult and result in a potential risk. It was decided that in order to mitigate the risk of working near the existing 60.3 mm line, the line will need to be isolated and blown down. In order to maintain supply to existing taps on the line south of the work area, ATCO is proposing to install a temporary surface pipeline. The surface pipeline would tie into the existing 406.4 mm transmission mainline in LSD 16-20-52-23-W4 and run 400 metres south to a new tie in point on the existing 60.3 mm line in LSD 16-20-52-23-W4. The surface pipeline would be in operation for approximately six weeks, be located outside the work area in conflict and would result in the ability to safely and effectively install the new pipelines and roadways. The surface pipeline would be located next to the existing east-bound to south-bound Anthony Henday Drive ramp; however the existing ramp would be closed to public traffic during the time the surface pipeline is in operation as part of the normally scheduled road construction activities.

ATCO stated that, as the surface pipeline is planned to be installed next to the ramp, traffic from this ramp is currently planned to be relocated within two weeks. The surface pipeline is planned to be installed after the traffic is re-routed. However, if traffic is not re-routed once the pipeline is installed, Jersey barriers would be installed along the edge of the ramp to further protect the surface pipeline.

ATCO stated that the estimate to operate the surface pipeline for six weeks is based upon the current proposed schedule for the completion of work under DA2013-172 and DA2013-213. However, due to supply requirements of the system, in the event of work is not completed prior to peak winter conditions, tie-ins may be delayed pending warmer conditions to complete the work. If this delay occurs, ATCO would still require the temporary surface pipeline to complete the work. At this time ATCO Pipelines does not anticipate any major delays due to weather concerns.

ATCO explained that its application meets the requirements of Alberta Regulation 91/2005 *Pipeline Rules* as follows:

Clause 2

- ATCO stated that it would install a pressure regulator (worker/monitor system) off the proposed hot tap fitting on the 406.4 mm pipeline to ensure that the pressure does not reach above the 2280 kPa maximum operating pressure of the pipeline. The pipeline would also have adequate isolation points to shut down the line in the event of an emergency. ATCO does not expect that the ambient air temperature or solar heating would have a significant impact on the pressure of the system. Gas flow through the pipeline would be continuous, thereby limiting the effect from the outdoor conditions.
- ATCO originally stated that a high-pressure hose would be used to connect the temporary surface pipeline to the temporary regulator set. The surface pipeline would also be placed on pipe stands. The hose, coupled with the pipeline on pipe stands, would allow for minor expansion and contraction of the pipeline. However, upon further review, ATCO stated that due to the length of time the surface pipeline will be operating, it would utilize steel fittings to complete the connections. ATCO expects expansion or contraction of the pipeline to be negligible.
- ATCO stated that it would install CSA Z245.1, CAT 2, -45°C pipeline material, therefore, temperature monitoring equipment would not be required.
- ATCO stated that the surface pipeline would be resting on pipe stands. The pipe stands would limit lateral or vertical movement.

Clause 3

- ATCO stated that a single road crossing is required. The pipeline would be installed under the road as per code requirements before tying into the existing pipeline on the south side. Warning signs would be installed. The road is currently closed off to public traffic as a result of the pipeline construction activities. The road would remain closed at the crossing location to public traffic during operation of the line.

Clause 4:

- ATCO stated that the surface pipeline would be fenced with pipeline warning signs. As the pipeline is within ATCO's construction area, only ATCO Pipelines' contractors would be in proximity to the pipeline. During operation at night, the surface pipeline would be monitored by over-night security.

ATCO stated that there are no expected environmental impacts. There are no watercourse crossings that would be affected by the installation activities.

ATCO stated that ministerial consent was not applied for from Alberta Infrastructure for this project. The proposed surface pipeline is temporary and is considered part of the general construction activity for the proposed pipeline installation. However, consultation was completed with the Joint Venture.

ATCO has provided information respecting the need, nature and extent of the project. Since the project involves no significant ground disturbance and is within the original right-of-way, the resultant environmental impact of the work has been assessed with no significant impact identified. The landowner of the affected lands did not object to the project.

Based upon the information provided, ATCO has demonstrated that the proposal is of a minor nature, no person other than the landowner of the land upon which the project takes place will likely be directly affected by the proposal, and no significant adverse environmental impact will be caused by the proposed project. ATCO has demonstrated that the temporary surface pipeline will be installed in compliance with the provisions of Section 21 of the *Pipeline Rules*.

The Commission approves the application. The amended permit and licence is attached.

A handwritten signature in black ink, appearing to read "B. Shand", is written over a light grey rectangular background.

Brian Shand, P. Eng.
Director, Gas Facilities
On behalf of the Alberta Utilities Commission

Attachment