



# AUC

Alberta Utilities Commission

## **Pembina NGL Corporation**

### **Redwater Industrial System Designation Amendment**

#### **Scoria 318S Substation and L108 Transmission Line Addition within the Redwater Industrial Complex**

**October 18, 2013**

**The Alberta Utilities Commission**

Decision 2013-387: Pembina NGL Corporation  
Redwater Industrial System Designation Amendment  
Application No. 1609857

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within the Redwater Industrial Complex  
Application No. 1609858

Proceeding ID No. 2794

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## **1 Introduction**

1. Pembina NGL Corporation (Pembina), on behalf of Williams Energy (Canada) Inc. and TransCanada Energy Ltd. filed an application with the Alberta Utilities Commission (AUC or the Commission) for approval to amend the existing Redwater Industrial System Designation (ISD) of the Redwater Industrial Complex. The amendment includes the development of a 550-metre long 138-kilovolt (kV) transmission line (designated as L108) and a 138/13.8-kV substation (designated as Scoria 318S substation). Pembina filed a second application for approval of the construction and operation of the proposed substation and transmission line. The applications were made pursuant to sections 4, 14, 15 and 19 of the *Hydro and Electric Energy Act* and were both registered on August 20, 2013 as Application No. 1609857 and Application No. 1609858.

2. In its applications, Pembina noted that it is proposing to twin the existing 73,000 barrel per day ethane-plus fractionator at its Redwater site, near Fort Saskatchewan, Alberta. The proposed second plant is called Redwater Fractionation Site II (RFSII). With the requested AUC approvals, Pembina will incorporate the proposed RFSII facility into the existing Redwater ISD and transmit electricity from the existing cogeneration operations to RFSII.

3. The proposed project consists of the following components:

- i. installation of a new 550-metre long 138-kV transmission line from the existing Pembina Granite 342S substation to the proposed Pembina Scoria 318S substation
- ii. construct the proposed Scoria 318S substation consisting of one 138/13.8-kV transformer, 138-kV circuit breaker and associated equipment

4. The proposed Scoria 318S substation and L108 transmission line would be owned by Pembina and are within the confines of the Redwater Industrial Complex. The Scoria 318S substation would be located in LSD 2 of Section 12, Township 56, Range 22, west of the Fourth Meridian.

5. The L108 transmission line would tap off the existing 138-kV overhead bus within the Granite 342S substation located at LSD 16 of Section 1, Township 56, Range 22, west of the Fourth Meridian. This tap-off would include a structure that would allow the L108 line to be overhead within the Redwater Industrial Complex. Three routes were considered and Pembina indicated that two routes are preferred. Each route would have the same start (Granite 342S substation) and end locations (Scoria 318S substation). Pembina noted that given the short, 550-metre length of the proposed transmission line located within the existing Redwater Industrial Complex, it submitted that the final routing would not have significant environmental impacts.

## 2 Application Process

6. On September 10, 2013, the Commission issued information requests to Pembina relating to the project. On September 18, 2013, Pembina satisfactorily responded to the Commission's information request.

7. No notice of application was issued because the amendment of the Redwater ISD would occur at the existing Redwater Industrial Complex, and due to Pembina's submission that there were no objections or concerns expressed from stakeholders through the participant involvement program.

## 3 Discussion

8. Pembina provided a noise impact assessment (NIA) in accordance with the requirements of AUC Rule 012: *Noise Control* (AUC Rule 012). The NIA identified the nearest dwelling within 1.5 kilometres of the facility fence-line. In addition, the NIA assessed the noise impact of the project at three additional residential receptors located within a three kilometre radius of the facility. The NIA concluded that the proposed project would be expected to contribute a negligible increase in the cumulative sound level at all residential receptor locations assessed.

9. With respect to the participant involvement program, Pembina submitted that personal consultations were not required as there are no occupants, residents or landowners within 800 metres of the proposed project. An information package was distributed via regular mail to all parties including landowners within two kilometres. Pembina stated it was not aware of any outstanding stakeholder concerns or issues.

10. Upon completion of the proposed development, Pembina submitted that the Scoria 318S substation would include the following major equipment:

- one 35/47-megavolt-ampere (MVA) 138/13.8-kV transformer
- one 138-kV breaker
- associated substation equipment
- a building enclosure surrounded by a chain-link fence, as described in the application

11. Pembina noted in its application that the Scoria 318S substation has been designed to accommodate two 138-kV transformers; however, only one transformer would be installed at this time in conjunction with RFSII.

12. To accommodate this development, approximately 550-metres of new 138-kV transmission line, to be named L108, is proposed to connect the proposed Scoria 318S substation to the existing Granite 342S substation within the Redwater Industrial Complex.

#### 4 Findings

13. The Commission has reviewed the applications and finds that they comply with the requirements prescribed in sections 4, 14 and 15 of the *Hydro and Electric Energy Act* and AUC Rule 007: *Applications for Power Plants, Substations, Transmission Lines, and Industrial System Designations* (AUC Rule 007).

14. The Commission finds that Pembina's public involvement project was reasonable and consistent with the requirements of AUC Rule 007.

15. Pembina notified landowners, the local county and various stakeholders in respect of the project and no concerns were raised. As such, the Commission relies on Pembina's statement that no stakeholders have concerns with the project.

16. The Commission accepts the conclusion in the NIA that the project is expected to contribute a negligible increase in the cumulative sound level at all residential receptor locations assessed.

17. The Commission is satisfied that the project would not cause additional adverse environmental impacts since the transmission line and substation are within the Redwater Industrial Complex.

18. The Commission is also satisfied that the addition of a transmission line and substation is a minor amendment to the Redwater ISD.

19. Based on the foregoing, the Commission considers the proposed amendment to the Redwater ISD and the proposed substation and transmission line to be in the public interest in accordance with Section 17 of the *Alberta Utilities Commission Act*.

## 5 Decision

20. Pursuant to Section 4 of the *Hydro and Electric Energy Act*, the Commission approves Application No. 1609857 and grants Pembina the approval set out in Appendix 1 – Industrial System Designation – Order No. U2013-458 – October 18, 2013, regarding the amendment of the Redwater Industrial Complex ISD.

21. Pursuant to sections 14 and 15 of the *Hydro and Electric Energy Act*, the Commission approves Application No. 1609858 and grants Pembina the approval set out in Appendix 2 - Substation Permit and Licence No. U2013-478 – October 18, 2013-regarding the construction and operation of the Scoria 318S substation.

22. The appendices will be distributed separately.

23. Pembina has not indicated the final route for L108 transmission line; therefore, the Commission will not issue a Permit and Licence for L108 transmission line. Pembina shall provide the final route of L108 transmission to the Commission. A transmission line Permit and Licence will be issued to Pembina when the final route has been submitted to the Commission.

Dated on October 18, 2013.

### The Alberta Utilities Commission

*(original signed by)*

Henry van Egteren  
Commission Member