

**Air Pollution Control
 Permit to Construct No. ACP-18202 v1.1
 Rivers Edge Compressor Station**

Amendment No. 1

Condition I.B.4. of Permit to Construct No. ACP-18202 v1.0 is rescinded in its entirety and is replaced with the following:

4. Equipment at the Facility:

| Emission Unit Description | Emission Unit (EU) | Emission Point (EP) | Air Pollution Control Equipment |
|--|---------------------------|----------------------------|--|
| Waukesha L5794GSI (4SRB) natural gas-fired compressor engine rated at 1,380 bhp manufactured March 2007 (NSPS JJJJ, OOOOa) (MACT ZZZZ) | C1 | C1 | Non-Selective Catalytic Reduction (NSCR) |
| Waukesha L5794GSI (4SRB) natural gas-fired compressor engine rated at 1,380 bhp manufactured June 2008 (NSPS JJJJ, OOOOa) (MACT ZZZZ) | C2 | C2 | NSCR |
| Waukesha L5794GSI (4SRB) natural gas-fired compressor engine rated at 1,380 bhp manufactured June 2013 (NSPS JJJJ, OOOO) (MACT ZZZZ) | C3 | C3 | NSCR |
| Waukesha L5794GSI (4SRB) natural gas-fired compressor engine rated at 1,380 bhp manufactured April 2012 (NSPS JJJJ, OOOO) (MACT ZZZZ) | C4 | C4 | NSCR |
| Triethylene glycol (TEG) reboiler rated at 0.5 x 10 ⁶ Btu/hr | 5 ^A | 5 | None |
| TEG dehydration unit rated at 25 x 10 ⁶ scfd (MACT HH) | 6 | 5, 7 & 8 | BTEX Condenser & TEG Reboiler ^B |
| Two 400 barrel (bbl) produced water/condensate tanks | 7 & 8 | 7 & 8 | Submerged Fill Pipe (SFP) |
| Natural gas liquid (NGL) truck loading | NGL-TL ^D | NGL-TL | Vapor Return System |
| Produced water truck loading | PW-TL ^D | PW-TL | None |
| Compressor blowdowns | BD | BD | Gas Recycle System ^C |
| Two methanol storage tanks | TK ^D | TK | None |
| Pigging | PIG ^D | PIG | None |

| Emission Unit Description | Emission Unit (EU) | Emission Point (EP) | Air Pollution Control Equipment |
|---------------------------|--------------------|---------------------|----------------------------------|
| Fugitives (NSPS OOOOb) | FUG | FUG | Leak Detection and Repair (LDAR) |

- A Reboiler may use recycled flash tank and/or non-condensed fluid from the TEG dehydration system as fuel.
- B Rich TEG from the gas dehydrator (contactor) is routed to a flash tank (depressurized) and the flash tank emissions are recompressed or recycled back into the process. Vapor emissions from the TEG regenerator (stripper) are routed to a condenser, which provides 80% VOC (BTEX) reduction. The non-condensables from the condenser are routed to the reboiler firebox which assumes an additional 90% VOC (BTEX) reduction.
- C Compressor blowdowns are manually controlled, and emissions are recycled to the suction header (inlet) of the compressor station when technically feasible.
- D Insignificant source of emissions.

Condition II.A. of Permit to Construct No. ACP-18202 v1.0 is rescinded in its entirety and is replaced with the following:

- A. **Emission Limits:** Emission limits from the operation of the source unit(s) identified in Item I.B of this Permit to Construct (hereafter referred to as "permit") are as follows. Source units not listed are subject to the applicable emission limits specified in the North Dakota Air Pollution Control Rules.

| Emission Unit Description | EU | EP | Pollutant / Parameter | Emission Limit ^A |
|---|---------------|---------------|-----------------------|---|
| Four Waukesha L5794GSI compressor engines rated at 1,380 bhp each | C1 through C4 | C1 through C4 | NO _x | 1.0 g/hp-hr or 82 ppmvd @15% O ₂ |
| | | | CO | 1.0 g/hp-hr ^B |
| | | | VOC | 0.7 g/hp-hr or 60 ppmvd @ 15% O ₂ ^B |
| | | | Opacity | 20% ^C |
| TEG reboiler | 5 | 5 | Opacity | 20% ^C |

- A Emission limits apply to each individual emission point.
- B Less restrictive 40 CFR 60 Subpart JJJJ limits also apply as follows: CO of 2.0 g/hp-hr or 270 ppmvd @ 15% O₂.
- C 40% opacity is permissible for not more than one six-minute period per hour.

FOR THE NORTH DAKOTA DEPARTMENT
OF ENVIRONMENTAL QUALITY

Date: _____

By: _____
James L. Semerad
Director
Division of Air Quality