

1.0 Emission Units and Active R13, R14, and R19 Permits

1.1 Emission Units

Emission Unit ID	Emission Point ID	Emission Unit Description	Year Installed	Design Capacity	Control Device
#1	001-02	Reciprocating Engine/Integral Compressor; White Superior 6GT825; Serial # 274469	1983	600 HP	N/A
#2	001-03	Reciprocating Engine/Integral Compressor; White Superior 80-825; Serial # 20812	1985	800 HP	N/A
005	001-06	Used Engine Oil Storage Tank	1986	1050 Gallons	N/A
006	001-07	New Engine Oil Storage Tank	1986	3024 Gallons	N/A
007	001-08	Pipeline Fluids Storage Tank	1986	1050 Gallons	N/A
008	001-09	Waste Fluids Storage Tank	1986	300 Gallons	N/A
RBV-1	001-04	NATCO Model 90-200 Glycol Dehydration Unit Reboiler Vent	2009	0.25 mmBtu/hr	None
RSV-1	001-05	NATCO Model 90-200 Glycol Dehydration Unit Regenerator Still Vent	2009	30 mmscf/day	None

1.2 Active R13, R14, and R19 Permits

The underlying authority for any conditions from R13, R14, and/or R19 permits contained in this operating permit is cited using the original permit number (e.g. R13-1234). The current applicable version of such permit(s) is listed below.

Permit Number	Date of Issuance
R13-2808AB	April 11, 2011 <u>May 10, 2013</u>

5.0 Dehydration and Reboiler Requirements

5.1 Limitations and Standards

5.1.1. **Maximum Throughput Limitation.** The maximum wet natural gas throughput to the glycol dehydration unit/still column (NATCO Model 90-200) shall not exceed 30 mmscf/day. Compliance with the Maximum Throughput Limitation shall be determined by recording daily wet natural gas throughput to the glycol dehydration unit.

[45CSR13, R13-2808, 5.1.1, 45CSR§30-5.1.c]

5.1.2. Maximum emissions from the Glycol Regenerator Still Vent (RSV-1) shall not exceed the following potential to emit (pounds per hour and tons per year):

Pollutant	Hourly Emissions (lb/hr)	Annual Emissions (ton/yr)
Volatile Organic Compounds	3.61 10.42	15.82 45.67
Benzene	0.17 0.197	0.72 0.86
Ethylbenzene	0.01 0.572	0.01 2.51
Toluene	0.14 0.696	0.62 3.05
Xylenes	0.05 0.820	0.21 3.59
n-Hexane	0.10 0.181	0.42 0.79

[45CSR13, R13-2808, 5.1.2.]

5.1.3. For purposes of determining potential HAP emissions at production-related facilities, the methods specified in 40 C.F.R. 63, Subpart HH (i.e. excluding compressor engines from HAP PTE) shall be used.

[45CSR13, R13-2808, 5.1.3.]

5.1.4. No person shall cause, suffer, allow or permit emission of smoke and/or particulate matter into the open air from any fuel burning unit which is greater than ten (10) percent opacity based on a six minute block average.

[45CSR§2-3.1]

5.2 Monitoring Requirements

5.2.1. In order to demonstrate compliance with Condition 5.1.2, the permittee shall have the option of using GRI-GlyCalc Version 3.0 or higher to estimate emissions from the glycol dehydration unit/still column (NATCO Model 90-200). However, to exercise this option the glycol dehydration system must be accurately defined by monitoring and recording actual operating parameters associated with the emission unit. The following parameters shall be measured periodically in order to define annual average values, or if monitoring is not practical some parameters may be assigned default values as listed below. For the purposes of this condition, the term *periodically* shall be interpreted as sufficient enough to reflect annual variation and therefore, this term is an operating parameter and site dependent.

With the exception of wet gas composition, which shall be measured in accordance with Condition 5.3.1, the permittee shall monitor and record bi-monthly the actual operating parameters listed below. These are required to be measured or assumed to equal the default values listed below in order to satisfy this monitoring requirement when using the Gas Analysis and Process Data, GRI-GLYCalc emission modeling method:

- Natural Gas Flowrate:
 - number of days operated per year,
 - annual daily average (MMscf/day), and
 - maximum design capacity (MMscf/day)
- Absorber temperature and pressure