



**SUPPLEMENTAL FORM – GLYCOL DEHYDRATION**

*Please submit one of these forms for **each** glycol dehydration unit that you own or operate. Also **include** a process flow diagram detailing the glycol unit. Contact the District if you have any questions.*

***Glycol Dehydration Unit Identification***

Facility Name	
Contact Person	
Phone Number	
Email Address	
Reboiler Size	_____ (MMBTU/Hour)
Annual Hours of Operation	
Type of Glycol	<input type="checkbox"/> TEG <input type="checkbox"/> DEG <input type="checkbox"/> EG <input type="checkbox"/> Other (Specify) _____

***ROC Uncontrolled Emission Calculation Input Data***

Dry Gas Flow Rating (MMSCF/day) dry basis	
Dry Gas Water Content (lb/MMSCF)	
Note: As an alternative to specifying the dry gas water content, you may specify the number of equilibrium absorber stages.	

***Lean Glycol Water Information***

Lean Glycol Water Content (wt % water)	Range (0-10%, by weight)		
Lean Glycol Flow Rate (gpm)	OR	Recirculation Ratio (gal/lb H <sub>2</sub> O)	

## SUPPLEMENTAL FORM (CONTINUED) – GLYCOL DEHYDRATION

**Wet Gas Data Required:**

Wet Gas Temperature or Absorber Temperature (°F)	Range (32°F to 150°F)
Wet Gas Pressure or Absorber Pressure (psig)	Range (0 psig to 5000 psig)
Is wet gas saturated with water?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If not, enter wet gas water content	lb H <sub>2</sub> O/mmscf

**For EG Units only enter the following:**

Contactor Temperature (°F)	Range (-120°F to 250°F)
Contactor Pressure (psig)	Range (0 psig to 5000 psig)

**Wet Gas Composition (dry basis volume percent):**

Methane:		Benzene:	
Ethane:		Toluene:	
Propane:		Ethyl Benzene:	
n-Hexane:		Xylenes:	
Other Hexanes:		Carbon Dioxide:	
Heptanes:		Hydrogen Sulfide:	
C <sub>8</sub> +Heavies:		Nitrogen:	
2,2,4-Trimethylpentane:			

Note: If the wet gas contains compounds not listed, enter C<sub>4</sub>, C<sub>5</sub>, C<sub>6</sub>, and C<sub>7</sub> isomers as butanes, pentanes, and other hexanes, and heptanes, respectively. The sum should approximate 100 percent. To convert from ppmv to volume percent, divide by 10,000.

## SUPPLEMENTAL FORM (CONTINUED) – GLYCOL DEHYDRATION

***Glycol Pump Information:***

Is the glycol pump electric or gas driven?	<input type="checkbox"/> Electric <input type="checkbox"/> Gas
If gas driven, enter the volume ratio, which is the ratio of the volume of gas used (acfm) to the volume of glycol pumped (gpm).	

Note: To convert from standard cubic feet (SCF) to actual cubic feet, use the following formula:

$$\text{Volume in ACF} = 0.0283 * \text{Volume in SCF} * (T+460)/(P+14.7)$$

where T is the gas temperature (°F) and P is the gas pressure (psig)

***Flash Tank Information:***

Does the Unit have a Flash Tank? If yes, the calculation assumes the flash tank is in service along the Rich glycol line, downstream of the absorber and upstream of the regenerator.	<input type="checkbox"/> Yes <input type="checkbox"/> No
Flash Tank Temperature (°F)	Range (32°F to 300°F)
Flash Tank Pressure (psig)	Range (5 psig to 5000 psig)

***Stripping Gas Information:***

Does the unit have a stripping gas system?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
If yes, please check the type of gas and the flowrate in SCFM:	<input type="checkbox"/> Dry Gas <input type="checkbox"/> Flash Gas <input type="checkbox"/> Nitrogen <input type="checkbox"/> Other	Gas Flow Rate:          <div style="text-align: right;">SCFM</div>
Additional Information About System:		

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***ROC Control Information:***

Does the unit have an ROC control system?	<input type="checkbox"/> Yes <input type="checkbox"/> No
If yes, please describe the system being used:	<input type="checkbox"/> Condenser <input type="checkbox"/> Incinerator
Condenser:	Temperature: <span style="float: right;">°F</span>
	Pressure: <span style="float: right;">psia</span>
Incinerator:	Ambient Air Temperature: <span style="float: right;">°F</span>
	Excess Oxygen: <span style="float: right;">%</span>
	Combustion Efficiency: <span style="float: right;">%</span>
If control system is not listed above, please describe the system being used:	