Glycol Dehydration Calculations Template (2 pages)

As part of the supporting documentation, include the aggregate summary report and summary of input values. A few of the necessary inputs include the following:

- Actual glycol flow rate and actual gas throughput for current year (not permitted values)
- Extended wet gas analysis (composition upstream of absorber), speciated to include benzene, toluene, ethylbenzene, and xylene (BTEX) and hydrocarbons through C_{8+}
  - do not use sales gas analyses
  - use a site-specific extended analysis with BTEX of the wet gas prior to the glycol contactor
- Regenerator control device information: condenser temperature and pressure at discharge to atmosphere, and/or combustion device fuel and air rates

For further guidance on glycol dehydration units, refer to the current year Emissions Inventory Guidelines (Appendix A, Miscellaneous VOC Sources, Glycol Dehydration Operations): http://www.tceq.texas.gov/airquality/point-source-ei/psei.html

Glycol Data Summary Tables

Company Name:		Site Name:		RN:	
FIN:		EPN:		CIN:	
Glycol Operations Data Inputs		**Value**		**Units**	
Type Of Glycol Used:					
Annual Hours Of Operation:					
Emission Calculation Method:					
Contactor Temperature :				Degrees Fahrenheit (°F)	
Contactor Pressure:				Pounds per square inch gauge (psig)	
Location At Site Where Gas Was Sampled:					
Pump Type:					
Dry Gas Flow Rate:				Million standard cubic feet per day (MMSCF/Day)	
Lean Glycol Flow Rate:				Gallons per minute (gpm)	
Flash Tank Pressure:				psig	
Flash Tank Temperature:				°F	

Wet Gas Composition	Concentration (vol %, dry basis)
Carbon Dioxide	
Nitrogen	
Methane	
Ethane	
Propane	
Benzene	
Toluene	
Ethylbenzene	
Xylene	
n-butane	
n-pentane	
n-hexane	
Isobutene	
Isopentane	

Controls	
(Complete for applicable control(s) at site)	
Flash Tank Controls	
Flash Tank (Yes/No):	
Control Type (If Applicable):	
Control Device Efficiency (If Applicable):	
Regenerator Control	
Regenerator Control Type -condenser, combustion, or both (complete applicable fields below):	
Condenser	
Temperature :	
Pressure:	
Control Curves (if used, attach low, high, and increment temperatures):	
Combustion	
Type (incinerator, flare, or thermal oxidizer):	
Control Device Efficiency:	
Reboiler	
% Of Time Burner Is On:	
% Of Time Heat Input > Maximum Heat Input Of Burner:	
Recycle/Recompress	
% Of Time System Is Down:	