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YOLO-SOLANO AIR QUALITY MANAGEMENT DISTRICT

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DIETHYLENE/TRIETHYLENE DEHYDRATION SYSTEMS (DEG/TEG DEHY SYSTEMS) APPLICATION INSTRUCTIONS AND SUPPLEMENTAL FORM 235

For operation of Dehydration Systems, please submit this completed form with an Authority to Construct (ATC) application form and the applicable filing fees. The filing fees for an initial ATC or for a modification of a dehy which already has a District Permit to Operate (PTO) are identified in Form 06.

After the ATC is granted for any equipment, deviations from the approved plans are not permissible without first securing additional written approval for the changes from the Air Pollution Control Officer.

Please provide the following:

- I. A drawing or sketch that shows at least the following:
 - a. The property involved identify property lines and all buildings on the property.
 - b. Location of the unit on the property and location of the exhaust stack.
 - c. Location of the property with respect to streets and all adjacent properties. Identify the use of all adjacent properties (business or residence).
- II. Will the dehy have any of the following components, and if so, list the quantity and identify each on the drawing. Per District Rule 2.23, components are defined as "any valve, fitting, pump, compressor, pressure relief device, diaphragm, hatch, sightglass, or meter".

	Yes / No	Quantity
Open-ended lines and valves		
Hatches		
Pressure relief devices		
Major components*		
Critical components**		
Inaccessible components, except flanges and threaded connections		

^{*}Major components are defined as any 4-inch or larger valve, any 5-hp or larger pump, any compressor, and any 4-inch or larger pressure relief device.

III. Provide the following specifications for the still vent and flash tank vent (if applicable):

	Still Vent	Flash Tank Vent
Release height (in meters)		
Inside diameter (in meters)		
Velocity (in m/sec) or flow rate (in acfm)		
Temperature (degrees K)		
Distance to nearest business (in meters)		
Distance to nearest residence (in meters)		

^{**}Critical components are defined as any component which would result in the automatic shutdown of the process unit if the component were shutdown.

Company Name:				
Equipment Manufacturer:] DEG Dehydrati	(Bt on []TEG De	u/hr) hydration	
SECTION 2:				
Dry Gas: Maximum Flow Rate:	MMS	CF/Day		
[] Water Content:	elect One:] Water Content: LBS. H2O/MMSCF] Absorber Stages:			
Lean Glycol: Water Content: WT% H2O Select One: GPM [] Recirculation Ratio: GAL/LB H20				
Glycol Pump: Select Pump Type: [] Electric/Pneumatic [] Gas Injection Volume Ratio: ACFM Gas/GPM Glycol				
Wet Gas:	<u> </u>		J F	
Temperature:	deg. F			
	ressure: psig			
Water Content:				
] Gas is subsatu		Ib H20/MMSCF	
*Component		Concentra	ation (volume %, dry basis)	
Carbon Dioxide Hydrogen Sulfide				
Nitrogen	;			
Methane				
Ethane				
Propane				
Isobutane				
n-Butane				
Isopentane				
n-Pentane				
Cyclopentane				
n-Hexane				
Cyclohexane				

SECTION 1:

*Component	Concentration (volume %, dry basis)
Other Hexanes	
Heptanes	
Methylcyclohexane	
2,2,4-Trimethylpentane	
Benzene	
Toulene	
Ethylbenzene	
Xylenes	
C8+Heavies	

^{*}Please attach a copy of lab analysis

Flash Tank: Include a Flash Tank? [] Yes If Yes, Operating Conditions:	deg.F		
Control Options: Controlled:	-	%	
Stripping Gas: Select Stripping Gas Option: [] No Stripping Gas	[] Use Dry Gas	[] Use Flash Gas	[] Use Nitrogen
Gas Flow Rate:	SCFM		
Regenerator Control Device: Select Control Device Option: [] No Control Device [] Use a Combustion Device	[] Use a Condens [] Use a Condens	er er/Combustion Devic	e
Condenser Options: Temperature: Pressure:	deg. F psia		
Combustion Device Options: Ambient Air Temperature: Excess Oxygen: Destruction Efficiency:	%	deg. F	

Use rich/lean analytical results? [] Yes [] No If yes, please attach necessary data of rich glycol and lean glycol results in mg/l.			
Print and sign the name of person completing form:			
Print	Title	Phone Number	
Signature:	(ORIGINAL SIGNATURE REQUIRED. NO PHO	Date:	