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air pollution control district
SANTA BARBARA COUNTY

Fugitive Hydrocarbon Component Leak Paths Form 200-20 Oil and Gas Equipment

Santa Barbara County Air Pollution Control District
260 N. San Antonio Road, Suite A
Santa Barbara, CA 93110-1315

Submit this supplemental equipment form attached to the **Oil and Gas Production Facility Form-200** to permit all **Fugitive Components** using the **Component Leak Paths Method**. Include manufacturer specifications for any BACT equipment as an attachment to this form.

Device Name	
Facility Name	

I. Fugitive Emissions Calculations Using CLP Method

Operator ID		Type of Modification	
Facility Type			

II. Valve CLP Counts - Gas/Light Liquid Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Valves - Accessible/Inaccessible		**1000 ppmv**	**Quarterly**	**80%**
Valves - Unsafe to Monitor		**1000 ppmv**	**Quarterly**	**0%**
Valves - Bellows **(BACT)**		**100 ppmv**	**Quarterly**	**90%**
Valves - Bellows / Background **(BACT)**		**Reading Above Background**	**Quarterly**	**100%**
Valves - Category A		**1000 ppmv**	**Monthly**	**84%**
Valves - Category B		**500 ppmv**	**Quarterly**	**85%**
Valves - Category C		**100 ppmv**	**Quarterly**	**87%**
Valves - Category D		**500 ppmv**	**Monthly**	**87%**
Valves - Category E		**100 ppmv**	**Monthly**	**88%**
Valves - Category F **(BACT)**		**100 ppmv**	**Quarterly**	**90%**
Valves - Category G **(BACT)**		**100 ppmv**	**Monthly**	**92%**

III. PSV CLP Counts - Gas/Light Liquid Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
PSV - To Atmosphere/Flare		**1000 ppmv**	**Quarterly**	**80%**
PSV - To Vapor Recovery System		**1000 ppmv**	**Quarterly**	**100%**

For APCD use only. FID # **App. #**

Fugitive Hydrocarbon Component Leak Paths Form 200-20 Oil and Gas Equipment

IV. Flange/Connections CLP Counts - Gas/Light Liquid Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Flanges/Connections - Accessible/Inaccessible		1000 ppmv	Quarterly	80%
Flanges/Connections - Unsafe to Monitor		1000 ppmv	Quarterly	0%
Flanges/Connections - Category A		1000 ppmv	Monthly	84%
Flanges/Connections - Category B		500 ppmv	Quarterly	85%
Flanges/Connections - Category C		100 ppmv	Quarterly	87%
Flanges/Connections - Category D		1000 ppmv	Monthly	87%
Flanges/Connections - Category E		100 ppmv	Monthly	88%
Flanges/Connections - Category F **(BACT)**		100 ppmv	Quarterly	90%
Flanges/Connections - Category G **(BACT)**		100 ppmv	Monthly	92%

V. Compressor CLP Counts - Gas/Light Liquid Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Compressor Seal - To Atmosphere		1000 ppmv	Quarterly	80%
Compressor Seal - To Vapor Recovery System		1000 ppmv	Quarterly	100%

VI. Pump Seal CLP Counts - Gas/Light Liquid Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Pump Seals - Single		1000 ppmv	Quarterly	80%
Pump Seals - Dual/Tandem		1000 ppmv	Quarterly	100%

Fugitive Hydrocarbon Component Leak Paths Form 200-20 Oil and Gas Equipment

VII. Valve CLP Counts - Oil Service				
Component Type	**Leak Path Count**	**Leak Detection & Repair Level (LDAR)**	**Inspection Frequency**	**Control Efficiency**
Valves - Accessible/Inaccessible		**1000 ppmv**	**Quarterly**	**80%**
Valves - Unsafe to Monitor		**1000 ppmv**	**Quarterly**	**0%**
Valves - Bellows **(BACT)**		**100 ppmv**	**Quarterly**	**90%**
Valves - Bellows / Background **(BACT)**		**Reading Above Background**	**Quarterly**	**100%**
Valves - Category A		**1000 ppmv**	**Monthly**	**84%**
Valves - Category B		**500 ppmv**	**Quarterly**	**85%**
Valves - Category C		**100 ppmv**	**Quarterly**	**87%**
Valves - Category D		**500 ppmv**	**Monthly**	**87%**
Valves - Category E		**100 ppmv**	**Monthly**	**88%**
Valves - Category F **(BACT)**		**100 ppmv**	**Quarterly**	**90%**
Valves - Category G **(BACT)**		**100 ppmv**	**Monthly**	**92%**

VIII. PSV CLP Counts - Oil Service				
Component Type	**Leak Path Count**	**Leak Detection & Repair Level (LDAR)**	**Inspection Frequency**	**Control Efficiency**
PSV - To Atmosphere/Flare		**1000 ppmv**	**Quarterly**	**80%**
PSV - To Vapor Recovery System		**1000 ppmv**	**Quarterly**	**100%**

Fugitive Hydrocarbon Component Leak Paths Form 200-20 Oil and Gas Equipment

IX. Flange/Connections CLP Counts - Oil Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Flanges/Connections - Accessible/Inaccessible		1000 ppmv	Quarterly	80%
Flanges/Connections - Unsafe to Monitor		1000 ppmv	Quarterly	0%
Flanges/Connections - Category A		1000 ppmv	Monthly	84%
Flanges/Connections - Category B		500 ppmv	Quarterly	85%
Flanges/Connections - Category C		100 ppmv	Quarterly	87%
Flanges/Connections - Category D		1000 ppmv	Monthly	87%
Flanges/Connections - Category E		100 ppmv	Monthly	88%
Flanges/Connections - Category F **(BACT)**		100 ppmv	Quarterly	90%
Flanges/Connections - Category G **(BACT)**		100 ppmv	Monthly	92%

X. Compressor CLP Counts - Oil Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Compressor Seal - To Atmosphere		1000 ppmv	Quarterly	80%
Compressor Seal - To Vapor Recovery System		1000 ppmv	Quarterly	100%

XI. Pump Seal CLP Counts - Oil Service

Component Type	Leak Path Count	Leak Detection & Repair Level (LDAR)	Inspection Frequency	Control Efficiency
Pump Seals - Single		1000 ppmv	Quarterly	80%
Pump Seals - Dual/Tandem		1000 ppmv	Quarterly	100%

XII. Device Description	XIII. Location Note

Fugitive Hydrocarbon Component Leak Paths Form 200-20 Oil and Gas Equipment

Leak Path Type	Number of Associated Leak Paths
Valves	Each valve stem counts as one valve. Bellows valves should be counted separately.
Flanges/ Connections	Each flange or threaded connection counts as one connection. Valve bonnets and flanges count as connections. Connections associated with compressors, pumps, pressure relief devices and sight glasses count as connections.
Pump Seals	Each liquid pumping device counts as a separate pump seal on pumps using a common driver.
Compressor Seals	Each compressor cylinder counts as a separate compressor seal on multiple cylinder compressors.
Pressure Relief Valve	Each pressure relief valve counts as one leak path.