

San Joaquin Valley Unified Air Pollution Control District Supplemental Application Form



Scrubbers

Please complete one form for each scrubber.

This form must be accompanied by a completed Authority to Construct/Permit to Operate Application form

PROCESS DESCRIPTION Gas Streams/Processes the Scrubber Serves (include permit number(s) and/or process flow diagrams, if applicable): Maximum Gas Flowrate:acfm Expected Gas Flowrate:acfm	PERMIT TO BE ISSUED TO:											
Gas Streams/Processes the Scrubber Serves (include permit number(s) and/or process flow diagrams, if applicable): Maximum Gas Flowrate:acfm	LOCATION WHERE THE EQUIPMENT WILL BE OPERATED:											
Maximum Gas Flowrate:	PROCESS DESCRIPTION											
Manufacturer: Model: Serial No.: Serial No.: Model: Serial No.: Serial No.: Model: Model: Serial No.: Model: Model: Serial No.: Model: Mode	Process Data	Gas Streams/Processes the Scrubber Serves (include permit number(s) and/or process flow diagrams, if applicable):										
Model: Serial No.: Seria		Maximum Gas Flowrate:			acfm Expected (acfm				
Dry Scrubber Packed Bed Orifice Condensation Scrubbing	EQUIPMENT DESCRIPTION											
Scrubber Type Packed Bed Orifice Condensation Scrubbing	Equipment	Manufacturer: Model:					Serial	No.:				
Scrubber Type	Scrubber Type	☐ Dry Scrubber										
Configuration: Vertical Horizontal Flow Type: Concurrent Counter-Current		☐ Wet Scrubber	Packe	ed Bed		Orifice		Condensation Scrubbing				
Configuration:		Select Type(s) of Wet Scrubber Tray		Plate		Spray Chambo	er	☐ Venturi				
Dimensions		Other type of scrubber (please provide details):										
Purpose (To Remove) □ Odor (type):		Configuration:										
Purpose (To Remove) □ VOC (type): □ Inorganic Fumes and Gases (type): □ Inorganic Fum	Dimensions	Height:ft. Diameter:ft. Length:ft.										
Particulates (type):	_	Odor (type):				□ SO _X :						
Particulates (type):		VOC (type):				☐ H ₂ S:						
Components Packed Bed Venturi Type of Packing Material:						Inorganic Fumes and Gases (type):						
Type of Packing Material: Throat Diameter: in. Manufacturer: Throat Length: in. Packing Factor: Pressure Drop Across Throat: in. of water Packing Size: Throat Velocity: ft./min Height of Packing Material: ft. Drop Diameter: microns												
Components Manufacturer:	Components	Packed Bed				Venturi						
Packing Factor: Pressure Drop Across Throat:in. of water Packing Size: Throat Velocity:ft./min Height of Packing Material:ft. Drop Diameter:microns		Type of Packing Material:				Throat Diameter:	in.					
Packing Size: Throat Velocity: ft./min Height of Packing Material: ft. Drop Diameter: microns		Manufacturer:				Throat Length:	in.					
Height of Packing Material:ft. Drop Diameter: microns						-						
						-						
		Height of Packing Material:ft.				Drop Diameter: microns						

Scrubbing Liquor Towns

	Scrubbing Liquor						Temperature:^F						
	Composition			Weight %			Blow-Down Rate: gpm						
						Make-up Rate: gpm				pm			
Scrubbing Liquid Medium								Recirculation Rate: gpm					
								Flow Meter(s) Present? Yes No					
Elquid Medium	Scrubbing Solutio	Scrubbing Solution: Once Through			n Recirculated			Total Pump H.P.:					
	pH of Scrubbing Medium (range):						pH Meter Present? Yes No						
	ORP of Scrubbing Medium (range):			millivolts			ORP Meter Present? Yes No						
EMISSIONS DATA													
					Com		·01	Efficiency					
Emissions Data	Pollutant		ppmvd		lb/hr	Control		(%)	Source of Data				
	Nitrogen Oxides (NO ₂)								Manufactu	ırer's Sj	pecifications		
	Particulate Matter	Particulate Matter (PM ₁₀)							Emissions	Source	Test		
	Carbon Monoxide								☐ AP-42; Se	ction:_			
	Volatile Organic (Compounds						Other:					
	Sulfur Dioxide (Se	Sulfur Dioxide (SO ₂)							Note: please provide copies of all				
	Hydrogen Sulfide (H ₂ S)					1			sources o				
HEALTH RISK ASSESSMENT DATA													
Operating													
Hours	Maximum Operating Schedule: hours per day, and hours per year												
	Distance to	Residencefeet					From the proposed stack location to the nearest st apartment, house, dormitory, etc.						
	nearest Residence			bou	indary of th	e neares							
Receptor Data	Direction to nearest Residence			Dire	ection from	the stac	k t	o the receptor	r, i.e. Northeast or South.				
	Distance to	feet							ed stack location to the nearest				
	nearest Business				boundary of the nearest office building, factory, store, etc.								
	Direction to nearest Business			Direction from the stack to the receptor, i.e. North or Southwest.									
Stack Parameters	Release Height	feet above grade											
	Stack Diameter	inches at point of release											
	Rain Cap	☐ Flapper-type ☐ Fixed-type ☐ None ☐ Other:											
	Direction of Flow	☐ Vertically Upward ☐ Horizontal ☐ Other: ° from vert. or ° from horiz.											
Exhaust Data	Flowrate:	acfm		Ten	nperature:			°F	Blower H.P.: _				
Facility Location	Urban (area of dense population) Rural (area of sparse population)												
Location													