PUGET SOUND
Clean Air Agency

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NOC APPLICATION SUPPLEMENTAL FORM

Thermal or Catalytic Oxidizer

This application is for activities or equipment that is (check all that apply):

- ☐ New (including existing, unpermitted equipment)
- ☐ Replacement of an existing oxidizer
- ☐ Substantial alteration of an existing oxidizer
- ☐ Relocation of an existing oxidizer

Specify the operation or process being controlled: _____

Hours of operation per day: _____ Hours of operation per year: _____

Oxidizer Type

- ☐ catalytic oxidizer
- ☐ regenerative thermal oxidizer
- ☐ recuperative thermal oxidizer
- ☐ thermal (direct fired) oxidizer

Design and Technical Specifications

Make: _____ Model: _____ Model Number: _____

Inlet process flowrate: _____ acfm

Fan design flowrate: _____ acfm @ pressure drop of _____ inches water column

Blower hp: _____

Combustion retention time: _____ seconds

Burner fuel type: ☐ Natural Gas ☐ Fuel Oil ☐ Other: _____

Burner maximum fuel usage: _____ BTU/hr

Minimum operating temperature: _____ °F

Number of burner nozzles: _____ Is burner low NOx design? ☐ Yes ☐ No

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For Catalytic Oxidizers

Catalyst material: ☐ Precious metal ☐ Ceramic ☐ Base metal ☐ Other: _____

Volume of catalyst: _____ cubic feet per layer # of layer of beds: _____

Temperature rise across catalyst: _____ °F Expected catalyst lifetime: _____

Describe catalytic cleaning and replacement procedures and frequency:

For Regenerative Thermal Oxidizers

Number of chambers: _____ Chamber dimensions: _____

For Direct-Fired or Recuperative Thermal Oxidizers

Combustion chamber dimensions: _____

Stack Parameters	**Building Dimensions of Project Location**
Exhaust stack parameters:	Building Height (highest point of roof) _____ ft
Stack diameter: _____ inches	Building Width _____ ft
Stack height above ground: _____ feet	Building Length _____ ft
Exhaust airflow: _____ scfm	Stack damper/rain guard:
Exhaust Temperature: _____ °F	☐ None ☐ Hexagonal ☐ Stack within stack
	☐ Butterfly ☐ Inverted Cone
	☐ Other (specify): _____

VOC Emissions

Maximum inlet VOC emissions: _____ ppm or lbs/hr

Maximum NOx emissions: _____ ppm or lb/hr

Maximum outlet VOC emissions: _____ ppm or lbs/hr

Maximum CO emissions: _____ ppm or lb/hr

Required Attachments
1. Brochure or technical fact sheet from manufacturer or supplier 2. Technical drawings of the oxidizer, including location of monitoring equipment 3. A list of instrumentation used to monitor temperature and flowrate. Specify if continuously monitored and recorded. 4. Description of any concentrators or particulate control devices associated with the oxidizer 5. If there are source test data available for this unit, include with application 6. Copy of the Operations and Maintenance Manual for control equipment, including provisions for shut down of inlet stream if oxidizer shuts down.