

**Major Source Operating Permit Application  
Control Equipment – Catalytic or Thermal Oxidation**

**Form 70-14**

1	Facility Name			
2	Equipment name and identification number			
3	Stack ID or flow diagram point identification(s)			
4	Name of manufacturer			
5	Model Number			
6	<b>LIST OF CONTAMINANTS TO BE CONTROLLED. GIVE THE CONCENTRATION OF EACH CONTAMINANT</b>			
	Air Contaminant	Concentration (PPM or percent by volume at standard conditions)		
	<b>LIST THE CONDITIONS OF THE GAS STREAM TO BE TREATED</b>			
		Maximum	Minimum	Average
	Temperature (°F)			
	Pressure (inches Hg)			
	Moisture (%)			
Gas volume (CFM @ STP)				
Gas Velocity in duct (FPM @ STP)				
This data has been determined by	<input type="checkbox"/> Source Test			
	<input type="checkbox"/> Calculations			
	<input type="checkbox"/> Other (specify)			
7	Afterburner data (check one)	<input type="checkbox"/> Catalytic		<input type="checkbox"/> Thermal
8	Thermal (check all that apply)	<input type="checkbox"/> Gas Fired		<input type="checkbox"/> Oil Fired
		<input type="checkbox"/> Nozzle-mixing premixing		<input type="checkbox"/> Multi-port
		<input type="checkbox"/> Mixing Plate		
		<input type="checkbox"/> Other (specify)		
9		Maximum	Minimum	Average
	List operating temperatures of afterburner (°F)			
	List retention time for afterburner (sec)			
	List exit gas temperature (°F)			
10	Will heat recovery unit be used	<input type="checkbox"/> Yes Specify type:		<input type="checkbox"/> No
	If unit is catalytic, describe catalyst and substrate			
	State estimated catalyst life (hrs)			
	Theoretical efficiency	Efficiency % = $\frac{(\text{lbs contaminant/hr in}) - (\text{lbs contaminants/hr out})}{(\text{lbs contaminant/hr in})} \times 100\%$ =		
11	Describe temperature sensory devices and their operating parameters			
12	List auxiliary fuel usage and identify type (ft <sup>3</sup> /hr; gal/hr)	Maximum	Minimum	Average
	Type:			
13	Submit drawings of all equipment with each application			
14	Page Number	Revision Number	Date of Revision	