Major Source Operating Permit Application **Form 70-14**

Control Equipment – Catalytic or Thermal Oxidation

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 LIST OF CONTAMINANTS TO BE CONTROLLED. GIVE THE CONCENTRATION OF EACH CONTAMINANT

Air Contaminant	Concentration (PPM or percent by volume at standard conditions)

LIST THE CONDITIONS OF THE GAS STREAM TO BE TREATED

	Maximum	Minimum	Average
Temperature (ºF)			
Pressure (inches Hg)			
Moisture (%)			
Gas volume (CFM @ STP)			
Gas Velocity in duct (FPM @ STP)			

This data has been determined by
- ☐ Source Test
- ☐ Calculations
- ☐ Other (specify)

7	Afterburner data (check one)	☐ Catalytic ☐ Thermal
8	Thermal (check all that apply)	☐ Gas Fired ☐ Oil Fired ☐ Nozzle-mixing premixing ☐ Multi-port ☐ Mixing Plate ☐ Other (specify)

9

	Maximum	Minimum	Average
List operating temperatures of afterburner (ºF)			
List retention time for afterburner (sec)			
List exit gas temperature (ºF)			

10

	Will heat recovery unit be used	☐ Yes Specify type: ☐ No
	If unit is catalytic, describe catalyst and substrate	
	State estimated catalyst life (hrs)	
	Theoretical efficiency	Efficiency % = (lbs contaminant/hr in)-(lbs contaminants/hr out) X 100% = (lbs contaminant/hr in)

11	Describe temperature sensory devices and their operating parameters	

12	List auxiliary fuel usage and identify type (ft^3/hr; gal/hr)	Maximum	Minimum	Average
	Type:			

13	Submit drawings of all equipment with each application

14	Page Number	Revision Number	Date of Revision