FORM C3

CONTROL DEVICE (THERMAL OR CATALYTIC)

REVISED 12/01/01 **NCDENR/Division of Air Quality - Application for Air Permit to Construct/Operate** **C3**

AS REQUIRED BY 15A NCAC 2Q .0112, THIS FORM MUST BE SEALED BY A PROFESSIONAL ENGINNER (P.E.) LICENSED IN NORTH CAROLINA.

CONTROL DEVICE ID NO:	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S):
EMISSION POINT (STACK) ID NO(S):	POSITION IN SERIES OF CONTROLS NO. OF UNITS
MANUFACTURER:	MODEL NO:
MANUFACTURE DATE:	PROPOSED OPERATION DATE:
OPERATING SCENARIO:	PROPOSED CONSTRUCTION DATE:
_____ OF _____	

TYPE: **G** AFTERBURNER **G** REGENERATIVE THERMAL OXIDATION **G** RECUPERATIVE THERMAL OXIDATION **G** CATALYTIC OXIDATION

EXPECTED LIFE OF CATALYST (YRS):	METHOD OF DETECTING WHEN CATALYST NEEDS REPLACMENT:

CATALYST MASKING AGENT IN AIR STREAM: **G** HALOGEN **G** SILICONE **G** PHOSPHOROUS COMPOUND **G** HEAVY METAL **G** SULFUR COMPOUND **G** OTHER_____ **G** NONE

TYPE OF CATALYST:	CATALYST VOL (FT^3):	VELOCITY THROUGH CATALYST (FPS):

SCFM THROUGH CATALYST:

DESCRIBE CONTROL SYSTEM, INCLUDING RELATION TO OTHER CONTROL DEVICES AND SOURCES, AND ATTACH DIAGRAM OF SYSTEM:

POLLUTANT(S) COLLECTED:				
BEFORE CONTROL EMISSION RATE (LB/HR):				
CAPTURE EFFICIENCY:	%	%	%	%
CONTROL DEVICE EFFICIENCY:	%	%	%	%
OVERALL SYSTEM EFFICIENCY:	%	%	%	%
EFFICIENCY DETERMINATION CODE:				

TOTAL EMISSION RATE (LB/HR) :

PRESSURE DROP (IN. H2O) MIN MAX	OUTLET TEMPERATURE (^oF): MIN MAX
INLET TEMPERATURE (^oF): MIN MAX	RESIDENCE TIME (SECONDS):
INLET AIR FLOW RATE (ACFM): (SCFM):	COMBUSTION TEMPERATURE (^oF):
COMBUSTION CHAMBER VOLUME (FT^3):	INLET MOISTURE CONTENT (%):
% EXCESS AIR:	CONCENTRATION (ppmv) _____INLET _____OUTLET
AUXILIARY FUEL USED:	TOTAL MAXIMUM FIRING RATE (MILLION BTU/HR):
MAXIMUM ANNUAL FUEL USE: UNITS:	MAXIMUM HOURLY FUEL USE: UNITS:
ACTUAL ANNUAL FUEL USE: UNITS:	ACTUAL HOURLY FUEL USE: UNITS:

DESCRIBE METHOD USED TO INCREASE MIXING:

DESCRIBE METHOD TO INSURE ADEQUATE START-UP TEMPERATURE:

DESCRIBE TEMPERATURE MONITORING DEVICES AND PROCEDURES:

STACK TESTING PORTS: **G** NO **G** YES (INLET AND OUTLET)

DESCRIBE MAINTENANCE PROCEDURES:

DESCRIBE ANY AUXILIARY MATERIALS INTRODUCED INTO THE CONTROL SYSTEM:

ATTACH A DIAGRAM OF THE RELATIONSHIP OF THE CONTROL DEVICE TO ITS EMISSION SOURCE(S):

Attach Additional Sheets As Necessary