

# FORM C7

## CONTROL DEVICE (CONDENSER)

REVISED 09/22/16

NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate

C7

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

CONTROL DEVICE ID NO:	CONTROLS EMISSIONS FROM WHICH EMISSION SOURCE ID NO(S):
EMISSION POINT ID NO(S):	POSITION IN SERIES OF CONTROLS NO. _____ OF _____ UNITS

<b>OPERATING SCENARIO:</b>	
_____ OF _____	
CONDENSER TYPE: <input type="checkbox"/> DIRECT CONTACT <input type="checkbox"/> INDIRECT CONTACT	CONDENSER TYPE: <input type="checkbox"/> SHELL AND TUBE <input type="checkbox"/> OTHER

DESCRIBE CONTROL SYSTEM:

POLLUTANT(S) COLLECTED:	_____	_____	_____	_____
CORRESPONDING EFFICIENCY:	_____ %	_____ %	_____ %	_____ %
EFFICIENCY DETERMINATION CODE:	_____	_____	_____	_____
BEFORE CONTROL CONCENTRATION (PPMV):	_____	_____	_____	_____
BEFORE CONTROL EMISSION RATE (LB/HR):	_____	_____	_____	_____
AFTER CONTROL CONCENTRATION (PPMV):	_____	_____	_____	_____
AFTER CONTROL EMISSION RATE (LB/HR):	_____	_____	_____	_____
BOILING POINT OF COLLECTED POLLUTANT (°F):	_____	_____	_____	_____
HEAT OF VAPORIZATION OF COLLECTED POLLUTANT (BTU/LB-MOL):	_____	_____	_____	_____
SPECIFIC HEAT OF POLLUTANT COLLECTED (BTU/LB-MOL °F):	_____	_____	_____	_____

EMISSION STREAM FLOW RATE (ACFM):	INLET EMISSION STREAM TEMPERATURE (°F):
MOISTURE CONTENT OF EMISSION STREAM (%):	OUTLET EMISSION STREAM TEMPERATURE (°F):
COOLANT USED:	TEMPERATURE OF INLET COOLANT (°F):
TEMPERATURE OF CONDENSATION (°F):	TEMPERATURE OF OUTLET COOLANT (°F):
COOLANT FLOW RATE (LB/HR):	REFRIGERATION CAPACITY (TONS):
CONDENSER SURFACE AREA (FT <sup>2</sup> ):	

DESCRIBE MAINTENANCE PROCEDURES:

DESCRIBE ANY MONITORING DEVICES, GAUGES, TEST PORTS, ETC:

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

COMMENTS:

**Attach Additional Sheets As Necessary**