FORM C2

CONTROL DEVICE (Electrostatic Precipitator)

KEVISED 09/22/10	NCDEQ/DIVI	sion of Air Quality - Appli	cation for Air Permit to Construct/Operate	CZ
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.	
OPERATING SCENARIO:				
OPERATING SCENARIO: OF			P.E. SEAL REQUIRED (PER 2Q .0112)?	YES NO
DESCRIBE CONTROL SYSTE	EM:			
EQUIPMENT SPECIFICATIONS			GAS DISTRIBUTION GRIDS:	YES NO
TYPE:			SINGLE-STAGE	TWO-STAGE
TOTAL COLLECTION PLATE AREA (FT ²):			NO. FIELDS NO. COLLECTOR PLATES PER FIELD:	
COLLECTOR PLATE SIZE (FT): LENGTH: WIDTH:			SPACING BETWEEN COLLECTOR PLATES (INCHES):	
TOTAL DISCHARGE ELECTRODE LENGTH (FT):			GAS VISCOSITY (POISE):	
NUMBER OF DISCHARGE EL	ECTRODES:		NUMBER OF COLLECTING ELECTRODE RAPPERS:	
MAXIMUM INLET AIR FLOW F	RATE (ACFM):		PARTICLE MIGRATION VELOCITY (FT/SEC):	
MINIMUM GAS TREATMENT TIME (SEC):			BULK PARTICLE DENSITY (LB/FT ³):	
FIELD STRENGTH (VOLTS) CHARGING: COLLECTING:			CORONA POWER (WATTS/1000 CFM):	
ELECTRICAL USAGE (KW/HC			,	
CLEANING PROCEDURES:	RAPPING	☐ PLATE VIBI	RATING WASHING O	THER
OPERATING PARAME		DROP (IN. H20): MIN	MAX WARNING ALA	ARM? YES NO
DECICE!! (ITY OF DOLL LITANT (OLIM OM)			GAS CONDITIONING: YES NO TYPE OF AGENT (IF YES):	
			OUTLET GAS TEMPERATURE (°F): MIN MAX	
` '			INLET MOISTURE PERCENT: MIN MAX	
POWER REQUIREME		RGY MANAGEMENT SYST		
FIELD NO.	NO. OF SETS	CHARGING	EACH TRANSFORMER (kVA)	EACH RECTIFIER Kv Ave/Peak Ma Dc
			†	
POLLUTANT(S) COLLECTED:	<u> </u>			
BEFORE CONTROL EMISSION RATE (LB/HR):				
CAPTURE EFFICIENCY: %				
CONTROL DEVICE EFFICIENCY: %			%	
CORRESPONDING OVERALL EFFICIENCY:%			%%	%
EFFICIENCY DETERMINATIO				
TOTAL AFTER CONTROL EM				
PARTICLE SIZE DISTRIBUTION			DESCRIBE STARTUP PROCEDURES:	
SIZE (MICRONS)	WEIGHT % OF TOTAL	CUMULATIVE %		
0-1			DESCRIBE MAINTENANCE PROCEDURE	ES:
1-10			1	
10-25			1	
25-50			DESCRIBE ANY AUXILIARY MATERIALS	INTRODUCED INTO THE CONTROL
50-100			SYSTEM	
>100			1	
	TOTA	L = 100	1	
DESCRIBE ANY MONITORING			CHMENTS:	
COMMENTS:	,,			
ΔΤΤΛ <i>Ο</i>	DIAGRAM OF THE TOP V	IEM UE THE ESD WITH D	IMENSIONS (include at a minimum the plate	e snacing and wire specing
			P OF THE CONTROL DEVICE TO ITS EMIS	
and in	idicate the electione type),	THE RELATIONSHIP	OF THE CONTINUE DEVICE TO HIS EIVIS	OUTON OUTOL(O).