FORM E6

COMPLIANCE ASSURANCE MONITORING (CAM) PLAN (4 pages)

REVISED 09/22/16 NCDEQ/Division of Air Quality - Application for Air Permit to Construct/Operate							
For C	For CAM-affected emission units, the applicant must submit additional information in the form of a CAM Plan as required under 40 CFR 64.						
	nformation about the CAM rule and this form, please refer to 40 CFR 64 and 15A NCAC 2D .0614. ional information (including guidance documents may be found at the following URLs: <u>https://www3.epa.gov/ttn/emc/cam.html</u> <u>https://deq.nc.gov/about/divisions/air-quality/air-quality-enforcement/compliance-assurance-monitoring</u>						
	SOURCE INFORMATION						
2.	Facility Name: Permit Number:						
3.	Date Form Prepared:						
	BASIS OF CAM SUBMITTAL						
4.	Mark the appropriate box below as to why this CAM Plan is being submitted as part of this application:						
	Renewal Application: <u>ALL</u> Emission Units (Pollutant Specific Emission Units [PSEUs] considered separately with respect to <u>EACH</u> regulated air pollutant) for which a CAM Plan has <u>NOT</u> yet been approved needs to be addressed in this CAM Plan submittal. See Renewal Procedures per 15 A NCAC 2Q .0513.						
	Initial Application (Submitted after 4/20/1998): Only large PSEUs (PSEUs with potential post control device emissions of an applicable regulated air pollutant that are equal to or greater than major source threshold levels) need to be addressed in this CAM Plan submittal. See Initial Application Procedures per 15A NCAC 2Q .0505(1).						
	Significant Modification to Large PSEUs: Only large PSEUs (PSEUs with potential post control device emissions of an applicable regulated air pollutant that are equal to or greater than major source threshold levels) being modified after 4/20/1998 need to be addressed in this CAM Plan submit For large PSEUs with an approved CAM Plan, only address the appropriate monitoring requirements affected by the significant modification. See Significant Modification Procedures per 15 A NCAC 2Q .0516.	ttal.					
	CAM APPLICABILITY DETERMINATION						
5.	To determine CAM applicability, a PSEU must meet ALL of the following criteria (If not, then the remainder of this form need not be complete	ed):					
	 A. The PSEU is located at a major source; B. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is <u>NOT</u> exempt; List of EXEMPT Emission Limitations or Standards below OR as provided in 15A NCAC 2Q .0614(b)(1): NSPS (40 CFR Part 60) or NESHAP (40 CFR Part 61 and 63) proposed after 11/15/1990. Stratospheric ozone protection requirements. Acid Rain program requirements. Emission limitations or standards for which a Title V permit specifies a continuous compliance determination method, as defined in the CAM rule (40 CFR 64.1), Continuous Compliance Determination Method. An emission cap that meets the requirements specified in 40 CFR 70.4(b)(12). If the PSEU is subject to both Exempt and Not Exempt emission standards for the same pollutant, then the facility is required to determine the CAM applicability for <u>Not Exempt</u> emission standards. C. The PSEU uses an add-on control device to achieve compliance with an emission limitation or standard; D. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than major source threshold levels; and 						
	 E. The PSEU is <u>NOT</u> an exempt backup utility power emission unit that is municipally owned and appropriately documentd as provided in 15A NCAC 2D .0614(b)(2). 						
	Attach Additional Shoets As Necessary Page 1 of 4						

Attach Additional Sheets As Necessary

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BACKGROUND DATA AND INFORMATION						E6-2		
6. Complete the following table for <u>ALL</u> PSEUs that need to be addressed in this CAM Plan submittal. This section is to be used to provide								
background data and information for each PSEU in order to supplement the submittal requirements specified in 40 CFR 64.4.								
If additional space is needed, please attach and label additional sheets as appropriate. ^a Emission								
PSEU	PSEU		Control	Limitation OR	^b Monitoring			
Designation	Description	Pollutant	Device	Standard	Requirement			
<u> </u>								
^a Indicate the en	nission limitation or standard for any	v applicable requirement that	constitutes an emisson lin	nitation emission standard	or standard of			
performance.	Examples of emission limitations or parameters, or other forms of speci	r standards may include a per	mitted emission limitation,	applicable regulations, we		ess or		

^b Indicate the monitoring requirements for the control device that are required by an applicable regulation or permit condition.

Attach Additional Sheets As Necessary

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	^a CAM MONITORING APPROACH CRITERIA E6-3						
7.	7. Complete this section for EACH PSEU and for each affected pollutant that needs to be addressed in this CAM Plan submittal. This section may be						
	copied as needed for each PSEU. This section	•		-			
	order to meet the monitoring design criteria sp	-	-				
	space is need, attach and label with the apprtopriate PSEU designation, pollutant, and indicator Nos.						
	PSEU DESIGNATION	POLLUTANT	^b INDICATOR NO. 1	^b INDICATOR NO. 2			
7a.	General Criteria						
7 41	Describe the monitoring approach used to						
	measure the indicators.						
	^c Establish the appropriate indicator range or						
	the procedures for establishing the indicator						
	range which provides a reasonable						
	assurance of compliance						
	^d Provide Quality Improvement Plan (QIP)						
	Threshold levels.						
7b.	Performance criteria						
70.							
	Provide the <u>Specification for Obtaining</u>						
	Representative Data (Such as detector						
	location and installation specifications).						
	Provide Quality Assurance and Quality						
	Control (QA/QC) Practices that are adequate						
	to ensure the continuing validity of the data,						
	considering manufacturerer's						
	recommendations						
	^e Provide the Monitoring Frequency						
	Provide the Data Collection Procedures that						
	will be used						
	Provide the Data Averaging Period for the						
	purpose of determining whether an						
	excursion or exceedance has occurred.	<u> </u>					
d	If a Continuous Emission Monitoring System (CEN						
	then this section need not be completed ONLY for		CEPT that the Special Criteria Information of	of 40 CFR 64.3(d) must be			
b	provided. Special Criteria Information may be pro	•					
5	Describe all indicators to be monitored which satis		•				
	system may include measured or predicted emission device (and capture system) efficiency or emission			ating parameters that affect control			
с		-					
	Indicator ranges may be based on a single maxim						
	as a function of process variables, expressed as n						
	interdependent between more than one indicator. In addition, unless specifically stated otherwise by an applicable requirement, the owner or operator shall						
d	monitor the indicators to detect any bypass of the control deivce (or capture system) to the atmosphere. The QIP threshold is based on the number of excursions identified in a reporting period. (Example: if the historical monitoring data for a facility indicates that the						
	indicator range was exceeded 10 times in a 6-month period, the threshold could be established at no more than 10 excursions outside the indicator range du 6-month reporting period.) The threshold levels also could be established based on the duration of excursions as a percentage of operating time.						
	e menti reporting pened.) The threshold levels a		The datation of exectations as a percentage	or oportaining unite.			
е	e At a minimum, the owner of a large PSEU must collect four or more data values equally spaced over each hour and average the values. All other PSEUs must						
	collect data at least once per 24-hour period or pe						
		incre to provide reasona		sales range of operating conditions.			

Attach Additional Sheets As Necessary

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	RATIONALE AND JUSTI	FICATION	E6-4		
8.	Complete this section for EACH PSEU and for each affected pollutant that needs to be addressed in this CAM Plan submittal. This section may be copied as needed. Use this section to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR 64.3 and 64.4. If more than two indicators are being selected for a PSEU or if additional speace is needed, attach additional sheets and label with the appropriate PSEU designation, pollutant, and indicator Nos.				
	PSEU DESIGNATION	POLLUTANT			
9.	INDICATORS AND THE MONITORING APPROACH: Provide the rationale and measure the indicators. Also provide any data suporting the rationale and justif operational status or the quality assurance and control practices proposed and label with the appropirate PSEU designation and pollutant).	fication. Explain the reasons for any differences between the verificatio	on of		
10.	INDICATOR RANGES: Provide the rationale and justification for the selection indicator range was selected by either a <u>Compliance or Performance Test</u> , a <u>Te</u> method is being used for each indicator range, include the specific information attach and label with the appropriate PSEU designation and pollutant):	est Plan and Schedule, or by Engineering Assessments. Depending on	which		
	 <u>COMPLIANCE or PERFORMANCE TEST</u> (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall <u>include</u> a summary of the compliance or performance test results that were used to determine the indicator range and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performante test was conducted and approved by DAQ. 				
	 <u>TEST PLAN AND SCHEDULE</u> (Indicator ranges will be determined from a p any other appropriate activities prior to use of the monitoring). The rational that will provide for use of the monitoring as expeditiously as practical after installation and beginning operation of the minitoring exceed 180 days after 	e and justification shall <u>include</u> the proposed implementation plan and approval of this CAM Plan, but in no case shall the schedule for comple	schedule		
	 ENGINEERING ASSESSMENTS (Indicator ranges or the procedures for es other data, such as manufacturer's design criteria and historical monitoring make compliance or performance testing unnecessary). The rationale and not required to establish the indicator range. 	data, because factors specific to the type of monitoring, control device,	or PSEU		
	RATIONALE AND JUSTIFICATION:				