CHECKLIST & CERTIFICATION FOR NOx / SOx RECLAIM CEMS RATA REPORT

(To be completed by authorized source testing firm representative and included in source test report)

Facility ID: Facility Name: Equipment Address:		Date(s) Tested:			
Equipme	nt Tested:				
), A/N, P/N:				
) or Job No:				
Report II	7 01 300 110.				
		<u>L</u>	EGEND		
YES N/A*	•				
		em has been included or em was <u>not required</u> ("no		port. for this particular test or CEMS.	
* Each checkbox item must be checked. The "NA" check box is only provided as an alternative choice in instances where the required information or testing is not necessary due to the process monitored by that particular CEMS, or the CEMS itself.					
GENERAL	GUIDELINE	S			
YES N/A			YES N/A		
a. 🗌		report arranged	b. 🗌	All pages in report consecutively	
		Standard Format		numbered	
c		ve headers that are	d	All supporting documentation is	
	to this report	otated & unique		consistent with reported results (Run Nos., dates, times, data)	
е. П		ta form entries are		Nos., dates, times, data)	
С. Ш		nk (corrections			
		e strike through)			
T					
Introduc	CTION				
YES N/A	3.6.11.0	CENTS 1/	YES N/A	***	
a. 🔲 📙	Modification facility since	s to CEMS and/or	b. 🔛	List personnel involved in test &	
	racinty since	Tast test**		present at test (AQMD, test firm, facility representatives)	
c. 🗌	Purpose of te	st & test dates		racinty representatives)	
	(including las				
SUMMARY	OF RESULT	r c			
YES N/A	Of RESCEI	.0	YES N/A		
a.	Overall sumr	nary of RATA	b.	Summary of calculations for each	
ш		ding K-Factor if	о. Ц	individual RATA type (flow, conc.,	
	applicable, &			mass), including intermediate results &	
		<i>,</i>		runs not used for calculations	
c. 🗌		mary for RM &	d. 🗌	All RATA runs are included (Not	
	facility CEM	S		necessary to include runs not used, in	
	Danie V F			calculation)	
e. 🔛	Previous K-F applicable) &				
	included**	DAI'S aic			

^{**} It is the Facility's responsibility to provide this information to the source test firm for insertion into the RATA report.

FACILITY	CEMS DESCRIPTION		
YES N/A a. □ c. □ □	Make / mdl / range of CEMS components, analyzers, DAS/RTU, flowmeters, recorder, sample conditioner** Identify specific modifications to facility CEMS since RATA**	YES N/A b.	Dimensional drawing of Facility CEMS probe location, sampling point location within stack, with respect to process equipment & RM CEMS probe
PROCESS .	AND EQUIPMENT DESCRIPTION		
a.	Process & equipment description (including control	b	Process drawing (including flow of materials & emission test points)
c.	equipment) Equipment rated capacities** Operating schedule	d. 🗌	Fuel types allowed by rule/permit**
PROCESS	CONDITIONS AND EQUIPMENT (OPERATION 1	DURING TEST
YES N/A a.	Process/equipment operating conditions (loads, throughput, firing rate, fuel type, fuel rate) during test & last test**	YES N/A b.	Chronology of key testing events
REFEREN	CE METHOD (RM) SAMPLING &	ANALYTIC	AL METHODS
<u>YES N/A</u> a. □ c. □ □	Brief description of standard test methods (incl calibrations, analyses & QA/QC) are referenced according to established source test method Thorough description of non-standard methods or modifications to established	<u>YES N/A</u> b. □ d. □	Discussion of representativeness of sampling (test location(s), numbers of points sampled, cyclonic/stratified flow checks) Discussion of on-going laboratory QA/QC program
	methods (incl drawing, calibrations, analyses & QA/QC)		
SPECIAL I	REFERENCE METHOD (RM) SAM	MPLING & A	NALYTICAL METHODS
a. 🗌 📋	LoNOx/LoSOx recovery, and/or spiking or surrogate spiking procedure required? (If you answered "YES", additional QA documentation must be included concerning surrogates, spiked/unspiked values, dilution factors, etc.)	b. 🗌 📗	Time-shared CEMS RATA test? (If you answered "YES", RATA must have been conducted in the time-shared mode and clearly documented with respect to all cycles shown on DAS, stripcharts, calculations, times, etc.)
a. 🗌 🔲	Specific interference testing required? (If you answered "YES", additional QA documentation must be included)	b. 🗌	Discussion of representativeness of sampling (test location(s), numbers of points sampled, cyclonic/stratified flow checks)

^{**} It is the Facility's responsibility to provide this information to the source test firm for insertion into the RATA report.
-2-

TEST CRI	TIQUE OF RESULTS		
a. \[\begin{array}{c c} \text{YES} & \text{N/A} & \\ \alpha & \end{array} \]	How unusual operating conditions (process interruptions**, weather conditions, other conditions) affect test data.	<u>YES N/A</u> b. ☐ ☐	Exceptions to accepted/approved test methodology
c. 🗌 🗍	Explanation why data/RATA runs not used	d. 🗌 🗍	Explanation of lapses in data recording exceeding 30-minutes, between RATA runs
CALCULA	TIONS		
YES N/A		YES N/A	
a. 🔛	All intermediate results concerning emission calculations are shown	b. 🔲	All equations, algorithms, constants, & calculations, etc. are clearly shown and referenced where applicable.
c. 🗌	An example calculation, using actual test data for each type of equation, is provided	d. 🗌	Calculation spreadsheets clearly show progression from raw measurement to resultant emissions for each run
e. 🗌	Calculations show all corrections for calibration drift	f. 🗌	Calculation of all QA data is provided (e.g., NOx converter efficiency, bias, linearity, etc.)
SIGNED A	FFIDAVITS & CERTIFICATES		
YES N/A a.	Facility Statement, signed by authorized facility representative (may not be signed by test firm representative)**	<u>YES N/A</u> b	Statement of No-Conflict, signed by authorized source test firm representative
c. 🗌	Current AQMD LAP for test firm		
APPENDIC	CES: FACILITY CEMS INFORMA	ATION	
YES N/A		YES N/A	
a. 🔲	DAS data record included for test duration that coincides with stripchart, test summary & RM info (including all raw parameters available to compute emissions)**	b. <u> </u>	Strip chart included for test duration (including excerpt from daily calibration stripchart)**
с. 🗌	Charts are properly annotated (date, time, location, measuring event, analyzer, range, calibration gas values & cyl. ID, initials)**	d. 🗌	All data provided in smallest time increment as collected & used for facility DAS and/or stripchart

^{**} It is the Facility's responsibility to provide this information to the source test firm for insertion into the RATA report.

-3-

APPENDICES: REFERENCE METHOD (RM) CEMS INFORMATION

<u>Yes N/A</u> a. □ c. □	Raw field test data for all RM measured parameters are provided (velocity, fuel flow, strat/cyclonic flow check, field calibrations, moisture, ambient measurements, gas conditioner temperature, etc.) Charts are properly annotated (date, time, location, measuring event, analyzer, range, calibration gas & cyl. no., run no., chartspeed, initials)**	<u>Yes N/A</u> b. □	All DAS and/or stripchart data is included for the full test duration & is consistent with test summary & facility CEMS info
APPENDIC	CES: QUALITY ASSURANCE/Q	UALITY CONTI	ROL (QA/QC)
YES N/A a.	Latest periodic calibrations for RM and facility CEMS equipment used at test are provided (Pitot tube, temp/pressure/flow devices, gas divider, fuel meter, analyzers, converters, GC,	<u>YES N/A</u> b. □	Current cal gas cylinder certificates (both RM & facility CEMS**) are provided
c. 🗌 🔲	calorimeter, etc.) Lab equipment calibrations (manual samples) are provided	d. 🔲 🔲	Lab equipment preparation/sample analysis "chain-of-custody" sheet are provided
ATTACHM	IENTS		
a. \[\sum_{\text{\left}} \frac{\text{\N/A}}{\text{\left}}	Special test requirements / data / calculations/ supporting documentation (low conc/low lvl spiking, dilution probe, low flow/oxy-fuel)	<u>Yes N/A</u> b. ☐ ☐	Additional data/info attached to further augment reported results
As the leg	ally authorized representative	of the source to	esting firm of:
Source Test	t Firm:		
Business Ad			
having ch accurate, inaccurate	ecked each item, I believe the and complete. (Significant)	e information penalties may including sus	onjunction with this checklist, and provided in this document is true be imposed for submitting false pension or revocation of AQMC ΓΑ report).
Signature:			Date:
	AME) (Titl	E)	(PHONE) (DATE)
(10)	TIVIL) (IIIL	L)	(DAIE)

FORM ST-121: 121cems_reclaim report content checklist.doc (Revised 10/08/04)

^{**} It is the Facility's responsibility to provide this information to the source test firm for insertion into the RATA report.