



The Avogadro Group, LLC

2825 Verne Roberts Circle
Antioch, CA 94509
(925) 680-4300
(925) 680-4416 FAX
www.avogadrogrou.com

P.O. Box 5331
Central Point, OR 97502
(541) 665-0170
(541) 665-0179 FAX

October 19, 2007

Mr. Charlie Knight
Plant Manager
Burney Mountain Power
Hwy 299 & Energy Drive
Burney, CA 96013
Phone No.: (530) 335-5434, Ext. 14
Fax No.: (530) 335-5522

Subject: 2007 Relative Accuracy Test Audit (RATA) Report 07097m

Dear Mr. Knight:

Enclosed please find four copies of the test report for the above-referenced project. As you requested, Mr. Jeff Hahn of Covanta has reviewed and approved the report on October 18. Please forward one copy of the report to Mr. John Waldrop of the Shasta County Air Quality Management District by October 26, 2007. Mr. Waldrop's address is presented below:

Mr. John Waldrop
Senior Air Pollution Inspector
Shasta County AQMD
1855 Placer St, Suite 101
Redding, CA 96001-1759

Mr. Hahn requested that we perform a relative accuracy test audit (RATA) on the plant-calculated CO₂ values during this test program. As you are aware, the plant's CEMS does not monitor CO₂ concentrations; rather, these values are calculated based on the O₂ concentrations (from the CEMS) and F-factors (refer to Section 2.1 of the report). The CO₂ RATA was performed by comparing the plant-calculated CO₂ concentrations with the CO₂ concentrations that Avogadro monitored throughout the test intervals. The relative accuracy of BMP's calculated CO₂ values was 0.61% (absolute difference), well within the performance specification of 1%. The results of the RATA are presented in Table 1 and the supporting data are presented in the attachments.




TABLE 1
RELATIVE ACCURACY TEST RESULTS
BMP-CALCULATED CO₂ CONCENTRATIONS, % VOLUME DRY

Run Number	Date	Time	Avogadro CEMS	Plant CEMS	Difference
Run 1	9/11/07	0920-0944	14.29	13.65	0.640
Run 2	9/11/07	0953-1017	14.14	13.55	0.585
Run 3	9/11/07	1032-1056	14.15	13.65	0.501
Run 4	9/11/07	1105-1129	14.18	13.65	0.532
Run 5	9/11/07	1140-1204	14.24	13.27	0.977
Run 6	9/11/07	1214-1238	14.17	13.55	0.622
Run 7	9/11/07	1250-1314	14.33	13.74	0.593
Run 8	9/11/07	1323-1347	14.25	13.65	0.603
Run 9	9/11/07	1356-1420	14.44	13.84	0.602
Run 10	9/11/07	1430-1454	14.43	13.74	0.689
AVERAGES:			14.26	13.67	0.60
STANDARD DEVIATION:					0.055
CONFIDENCE COEFFICIENT:					0.042
ABSOLUTE DIFFERENCE %:					0.60

Charlie, it has been a pleasure working with you and your helpful staff again at BMP. You are an important client to us at The Avogadro Group, LLC, and we appreciate your support. Please call me at (541) 665-0170 if you have any questions or comments regarding this report. Thank you for the opportunity to serve BMP.

Sincerely,
The Avogadro Group, LLC


Jeffery M. Hogan
Project Manager

cc: Jeff Hahn, Covanta (letter)

Enclosures (4)



Mr. Charlie Knight
October 19, 2007

07097m

ATTACHMENTS



Gaseous Emission Test Results

BMP

Wood Boiler

Test number.....	Run 1	Run 2	Run 3	Run 4	Run 5	Run 6	Run 7	Run 8	Run 9	Run 10
Date.....	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07	9/11/07
Start / Stop time.....	0920-0944	0953-1017	1032-1056	1105-1129	1140-1204	1214-1238	1250-1314	1323-1347	1356-1420	1430-1454
O ₂ , % volume dry.....	6.191	6.371	6.334	6.264	6.175	6.291	6.151	6.259	6.070	6.111
CO ₂ , % volume dry.....	14.29	14.14	14.15	14.18	14.24	14.17	14.33	14.25	14.44	14.43
BMP-Calculated CO ₂ (% volume dry)	13.65	13.55	13.65	13.65	13.27	13.55	13.74	13.65	13.84	13.74

**RELATIVE ACCURACY DETERMINATION
BMP**

CO₂, % volume dry

<u>Run #</u>	<u>Date</u>	<u>Time</u>	<u>AG</u>	<u>CEMS</u>	<u>Difference</u>	<u>n</u>	<u>t(0.975)</u>
Run 1	9/11/07	0920-0944	14.29	13.65	0.640	1	100.00
Run 2	9/11/07	0953-1017	14.14	13.55	0.585	2	12.706
Run 3	9/11/07	1032-1056	14.15	13.65	0.501	3	4.303
Run 4	9/11/07	1105-1129	14.18	13.65	0.532	4	3.182
Run 5	9/11/07	1140-1204	14.24	13.27	0.977	5	2.776
Run 6	9/11/07	1214-1238	14.17	13.55	0.622	6	2.571
Run 7	9/11/07	1250-1314	14.33	13.74	0.593	7	2.447
Run 8	9/11/07	1323-1347	14.25	13.65	0.603	8	2.365
Run 9	9/11/07	1356-1420	14.44	13.84	0.602	9	2.306
Run 10	9/11/07	1430-1454	14.43	13.74	0.689	10	2.262
AVERAGES:			14.26	13.67	0.60		
STANDARD DEVIATION:					0.055		
CONFIDENCE COEFFICIENT:					0.042		
RELATIVE ACCURACY (BASED ON ABSOLUTE DIFFERENCE), %:							0.60