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Lansing Board of Water and Light Delta Energy Park Facility EUCTGHRSG2 Stack Lansing, Michigan Project No. M231206A March 22, 2023



Relative Accuracy Test Audit Test Report

Lansing Board of Water and Light Delta Energy Park Facility EUCTGHRSG2 Stack Lansing, Michigan 48917 March 22, 2023

> Report Submittal Date April 11, 2023

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Project No. M231206A

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1.0 EXECUTIVE SUMMARY

Mostardi Platt conducted a Continuous Emissions Monitoring System (CEMS) Relative Accuracy Test Audit (RATA) test program for Lansing Board of Water and Light at the Delta Energy Park Facility in Lansing, Michigan, on the EUCTGHRSG2 bypass, simple cycle stack on March 22, 2023. This report summarizes the results of the test program and test methods used in accordance with the Mostardi Platt Protocol M21605A dated October 20, 2022. Mostardi Platt is a self-certified air emissions testing body (AETB). A copy of Mostardi Platt's self-certification can be found in Appendix A.

The test location, test date, and test parameters are summarized below.

	TEST INFORMA	ΤΙΟΝ
Test Location	Test Date	Test Parameters
EUCTGHRSG2 Stack (Simple Cycle)	March 22, 2023	Oxygen (O ₂) and Nitrogen Oxides (NO _X)

The purpose of the test program was to demonstrate the relative accuracies of the EUCTGHRSG2 Stack (Simple Cycle) O_2 and NO_X analyzers during the specified operating conditions. The test results from this test program indicate that each CEMS component meets the United States Environmental Protection Agency (USEPA) annual performance specification for relative accuracy as published in 40 Code of Federal Regulations Part 75 (40CFR75) and 40 Code of Federal Regulations (40CFR60).

RATA RESULTS							
Test Location	Date	Parameter	Units	Relative Accuracy Acceptance Criteria	Relative Accuracy (RA)	Bias Adjustment Factor (BAF)	
EUCTGHRSG2 Stack	3/22/23	NOx	lb/mmBtu	≤ 7.5% of the mean reference value	1.29 %	1.000	
(Simple Cycle)		O ₂	% dry	≤ 7.5% of the mean reference value	0.26%	N/A	

	GAS CYLINDER INFORMATION									
Parameter	Parameter Gas Vendor Cylinder Serial Cylinder Value Expiration Da									
NOx	Airgas	ALM-059459	0.0 ppm	11/7/2030						
NOx	Airgas	CC152228	25.47 ppm	5/20/2025						
NOx	Airgas	CC702249	45.33 ppm	12/13/2025						
O2	Airgas	CC152228	0.0%	5/20/2025						
O2	Airgas	ALM-059459	10.02%	11/7/2030						
O ₂	Airgas	CC743660	19.35%	6/18/2029						

The gas cylinders used to perform the RATA are summarized below.

No deviations, additions, or exclusions from the test protocol, test methods, the Mostardi Platt Quality Manual, or the ASTM D7036-12 occurred. The specific test conditions encountered did not interfere with the collection of the data.

The identifications of the individuals associated with the test program are summarized below.

TEST PERSONNEL INFORM	TEST PERSONNEL INFORMATION							
Location	Address	Contact						
Test Coordinator	Lansing Board of Water and Light 1232 Haco Drive P.O. Box 13007 Lansing, Michigan 48912	Mr. Nathan Hude Environmental Regulatory Compliance (517) 702-6170 (cell phone)						
Test Facility	Lansing Board of Water and Light Delta Energy Park Facility 3725 South Canal Road Lansing, Michigan 48917 Permit to Install 74-18A	nathan.hude@lbwl.com						
Testing Company Supervisor	Mostardi Platt 888 Industrial Drive Elmhurst, Illinois 60126	Mr. Jacob Howe Project Supervisor 630-993-2100 (phone) jhowe@mp-mail.com						
Testing Company Personnel		Mr. Pravaek Pradhan Test Technician						

Copies of the QI certifications for test personnel are included in Appendix B.

2.0 TEST METHODOLOGY

Emission testing was conducted following the United States Environmental Protection Agency (USEPA) methods specified in 40CFR75 and 40CFR60, Appendix A in addition to the Mostardi Platt Quality Manual and the test protocol. Schematics of the test section diagrams and sampling trains used are included in Appendix C and D respectively. Calculation and nomenclature are included in Appendix E. Copies of analyzer print-outs for each test run are included in Appendix F. CEM data and process data as provided by Lansing Board of Water and Light are included in Appendix G.

The following methodologies were used during the test program:

Method 3A Oxygen (O₂) Determination

Stack gas O_2 concentrations were determined in accordance with USEPA Method 3A, 40CFR60, Appendix A. An O_2 analyzer was used to determine the O_2 concentrations in the manner specified in the Method. The instrument has a paramagnetic detector and the O_2 operates in the nominal range of 0% to 25% with the specific range determined by the high-level calibration gas of 19.35%. High-range calibrations were performed using USEPA Protocol gas. Zero nitrogen (a low ppm pollutant in balance nitrogen calibration gases) was introduced during other instrument calibrations to check instrument zero. High- and a mid-range % O_2 levels in balance nitrogen were also introduced. Zero and mid-range calibrations were performed using USEPA Protocol gas after each test run. Copies of the gas cylinder certifications are found in Appendix I. This testing met the performance specifications as outlined in the Method.

Method 7E Nitrogen Oxides (NO_x) Determination

Stack gas NO_x concentrations and emission rates were determined in accordance with USEPA Method 7E, 40CFR60, Appendix A. A Thermo Scientific Model 42i-HL Chemiluminescence Nitrogen Oxides Analyzer was used to determine nitrogen oxides concentrations, in the manner specified in the Method. The instrument operated in the nominal range of 0 ppm to 50 ppm with the specific range determined by the high-level span calibration gas of 45.33 ppm.

The Model 42i-HL High Level is based on the principle that nitric oxide (NO) and ozone (O_3) react to produce a characteristic luminescence with an intensity linearly proportional to the NO concentration. Infrared light emission results when electronically excited nitrogen dioxide (NO₂) molecules decay to lower energy states. Specifically,

 NO_2 must first be transformed into NO before it can be measured using the chemiluminescent reaction. NO_2 is converted to NO by a stainless steel NO_2 -to-NO converter heated to about 625°C. The flue gas air sample is drawn into the Model 42i-HL High Level through the sample bulkhead. The sample flows through a particulate filter, a capillary, and then to the mode solenoid valve. The solenoid valve routes the sample either straight to the reaction chamber (NO mode) or through the NO_2 -to-NO converter and then to the reaction chamber (NOx mode).

Dry air enters the Model 42i-HL High Level through the dry air bulkhead, through a flow sensor, and then through a silent discharge ozonator. The ozonator generates the necessary ozone concentration needed for the chemiluminescent reaction. The ozone reacts with the NO in the ambient air sample to produce electronically excited NO₂ molecules. A photomultiplier tube (PMT) housed in a thermoelectric cooler detects the NO₂ luminescence.

The NO and NO_X concentrations calculated in the NO and NO_X modes are stored in memory. The difference between the concentrations is used to calculate the NO₂ concentration. The Model 42i-HL High Level outputs NO, NO₂, and NO_X concentrations to both the front panel display and the analog outputs.

Stack gas was delivered to the analyzer via a Teflon[®] sampling line, heated to a minimum temperature of 250°F. Excess moisture in the stack gas was removed using a refrigerated condenser. The entire system was calibrated in accordance with the Method, using USEPA Protocol gases introduced at the probe, before and after each test run. This testing met the performance specifications as outlined in the Method.

A list of calibration gases used and the results of all calibration and other required quality assurance checks are found in Appendix H. Copies of the gas cylinder certifications are found in Appendix I. The NO₂ to NO converter test can be found in Appendix J. This testing met the performance specifications as outlined in the Method.

3.0 TEST RESULT SUMMARIES

Client:	Lansing	g Board of V	Vater and Lig	ght	Location: EUCTGHRSG2 Stack (Simple Cycle)				
Facility:	Delta E	nergy Park			Date: 3/22/23				
Project #:	M2312	06			Test Method: 7E, 3A				
Fuel Type:	Natural	Gas			Fuel Factor:	8710			
			O2 ba	sed NOx	b/mmBtu R	ΑΤΑ			
					r Information				
NC	Moni	tor/Model:		42iQLS		NO _x Serial # :	11927	744583	
		tor/Model:		42iQLS		O2 Serial # :		744583	
1=accept 0=reject	Test Run		Start Time		RM NO _x CEM NO _x (RM-CEM) (RM-C Ib/MMBtu Ib/MMBtu Difference Difference Difference				
1	1	03/22/23	10:05	10:25	0.073	0.073	0.000	0.000000	
1	2	03/22/23	10:50	11:10	0.069	0.068	0.001	0.000001	
1	3	03/22/23	11:24	11:44	0.068	0.067	0.001	0.000001	
1	4	03/22/23	11:57	12:17	0.067	0.067	0.000	0.000000	
1	5	03/22/23	12:32	12:52	0.067	0.067	0.000	0.000000	
1	6	03/22/23	13:06	13:26	0.066				
1	7	03/22/23	13:41	14:01	0.067	0.066	0.001	0.000001	
1	8	03/22/23	14:16	14:36	0.066	0.066	0.000	0.000000	
1	9	03/22/23	14:50	15:10	0.067	0.066	0.001	0.000001	
0	10	03/22/23	15:25	15:45	0.067	0.066	0.001	0.000001	
				n		Э			
				t(0.025)	2.3				
		Mean Re	ference Me			068	RM avg		
				CEM Value		067	CEM avg		
				Differences			di		
				Difference	0.000 d				
		Sum	of Difference						
				d Deviation	0.001 sd				
Confidence Coefficient 2.5% Error (1-tail)						001	cc		
				e Accuracy		29	RA		
			Bias Adjustr	nent Factor	1.0	000	BAF		

Client: Lansing Board of Water and Light						Location: EUCTGHRSG2 Stack (Simple Cycle)			
Facility:	Delta E	nergy P	ark		Date: 3/22/23				
Project #:	M23120)6			Test Method: 3A				
				(O₂ % (dry)	RATA			
					Analyzer li				
	0;	2 Monit	or/Model:	F	42iQLS		O ₂ Serial # :	1192	744583
1=accept 0=reject	Test Run	Mw	Test Date	Start Time	End Time	RM O₂ % (dry)	CEM O₂ % (dry)	(RM-CEM) Difference (di)	(RM-CEM) Difference ² (di ²)
1	1		03/22/23	10:05	10:25	13.8	13.8	0.0	0.00
1	2		03/22/23	10:50	11:10	13.8	13.8	0.0	0.00
0	3		03/22/23	11:24	11:44	13.9	13.8	0.1	0.01
1	4 03/22/23 11:57 12:17						13.9	0.0	0.00
1	5		03/22/23	12:32	12:52	13.9	13.9	0.0	0.00
1	6		03/22/23	13:06	13:26	13.9	13.9	0.0	0.00
1	1 7 03/22/23 13:41 14:01						13.9	0.0	0.00
1	8		03/22/23	14:16	14:36	13.9	13.9	0.0	0.00
1	9 03/22/23 14:50 15:10 1						13.9	0.0	0.00
1	10		03/22/23	15:25	15:45	13.9	13.9	0.0	0.00
					n	\$	9		
						306			
			Mean Re	ference Me			878	RM avg	
					CEM Value		878	CEM avg	
					Differences			di	
	Mean Difference						0.000 d		
	Sum of Differences Squared						0.000 di ²		
Standard Deviation									
	Confidence Coefficient 2.5% Error (1-tail)						000	CC	
	Relative Accuracy						.00	RA	

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4.0 CERTIFICATION

Mostardi Platt is pleased to have been of service to Lansing Board of Water and Light. If you have any questions regarding this test report, please do not hesitate to contact us at 630-993-2100.

As the program manager, I hereby certify that this test report represents a true and accurate summary of emissions test results and the methodologies employed to obtain those results. The test program was performed in accordance with the test protocol, test methods, the Mostardi Platt Quality Manual, and the ASTM D7036-12, as applicable.

MOSTARDI PLATT

of Hove

Program Manager

Jacob W. Howe

Bayun W # el

Benjamin W. Hendricks

Quality Assurance

APPENDICES

Appendix A - Company AETB Certification



March 23, 2012

Effective immediately, Mostardi Platt self-certifies that all Part 75 test projects conform to the ASTM D 7036-04 Standard Practice. The following contact information is provided as required by the Standard:

Mostardi Platt 888 Industrial Drive Elmhurst, Illinois 60126

630-993-2100

tplatt@mp-mail.com

Also, attached is a list of each Qualified Individual (QI) with the type of exam (e.g., Group I, II, III IV and/or V), the date the exam was taken and the name and email address of the exam provider.

Should you have any questions or need additional information, please contact Thomas Platt, P.E. at 630-993-2683.

Approved:

By:

Robert J. Platt Chief Executive Officer

> 888 Industrial Drive Elmhurst, Illinois 60126 630-993-2100

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QSTI AETB Import Data

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3/28/2023

Appendix B - QI Certification(s) for Field Personnel

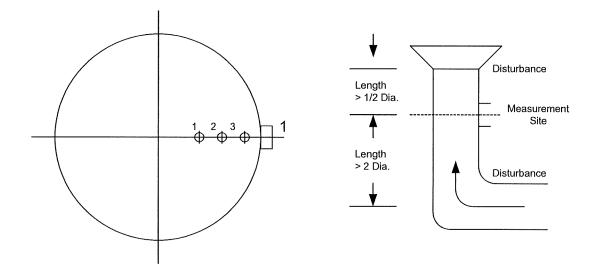


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AIR QUALITY DIVISION

mostardi 🔵 platt							
Qualified Individual							
Jacob W. Howe							
Has satisfactorily completed the requirements of ASTM D 7036 – 04, Section 8.3							
Standard Practice for Competence of Air Emission Testing Bodies							
Examinations provided by Source Evaluation Society: www.sesnews.org, (919) 544-6338							
All Part 75 test methods, under my supervision, shall conform to the company's Quality Manual and to this practice, in all respects.							
Passed Group V on 2/17/2021							
Expiration Date: 2/17/2026							
Af Hore							
Signature: Date: February 17, 2021							
Quality Manager: & Mett Technical Director: Keatth. Banace							

Appendix C - Test Section Diagram

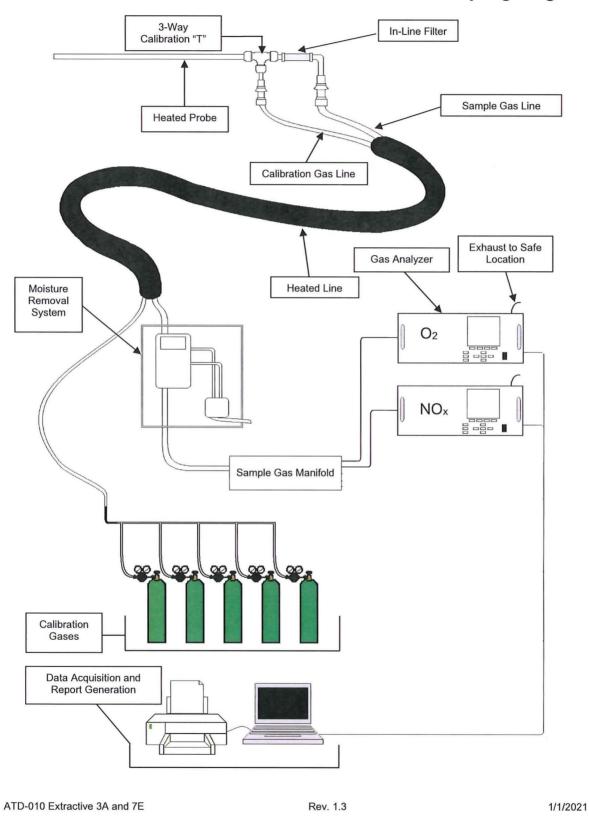


- Job: Lansing Board of Water and Light Delta Energy Park Facility Lansing, Michigan
- Date: March 22, 2023

Test Location: EUCTGHRSG2 Stack

- Stack Diameter: 11.901 Feet
 - Stack Area: 111.24 Square Feet
- No. Sample Points: 3

Appendix D - Sample Train Diagram



USEPA Methods 3A and 7E Extractive Gaseous Sampling Diagram

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