

Great Lakes Gas Transmission Limited Partnership

December 18, 2015

Ms. Karen Kajiya-Mills MDEQ/AQD Technical Programs Unit Supervisor P.O. Box 30260 Lansing, MI 48909 RECEIVED
DEC 28 2015
AIR QUALITY DIVISION

RE: Submittal of Emissions Compliance Report, Great Lakes Gas Transmission Ltd. Partnership, Farwell Compressor Station (permit # MI-ROP-N5581-2013)

Dear Ms. Kajiya-Mills:

As operator of Great Lakes Gas Transmission Limited Partnership (GLGT), TransCanada would like to submit the attached emissions compliance report for MDEQ review and approval. The unit tested is a Solar Taurus 70 natural gas fired turbine, EU-UNIT1206, located at GLGT Farwell compressor station, Clare County, Michigan. As per Operational Permit requirements, Part C, Section V.1 & 2, NOx and CO emissions compliance has to be proven once within the effective dates of the mentioned permit, which expires in March 18, 2018.

The test was performed according to EPA Reference Method 7E for NOx determination, Method 10 for CO determination and 3A for Oxygen calculations, as outlined in our testing protocol submitted to your agency last October 15, 2015.

If you have any questions or concerns regarding this matter, please don't hesitate to contact me.

Thank You,

Roy Cannon

TransCanada US Pipelines

Emissions Testing Logistics & Reporting Specialist

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Ronald White – Field Work Planner



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY AIR QUALITY DIVISION

REPORT CERTIFICATION

Authorized by 1994 P.A. 451, as amended. Failure to provide this information may result in civil and/or criminal penalties.

Reports submitted pursuant to R 336.1213 (Rule 213), subrules (3)(c) and/or (4)(c), of Michigan's Renewable Operating (RO) Permit program must be certified by a responsible official. Additional information regarding the reports and documentation listed below must be kept on file for at least 5 years, as described in General Condition No. 22 in the RO Permit and be made available to the Department of Environmental

Quality, Air Quality Division upon request.		·
Source Name GLGT Farwell Compressor Station		County Clare
Source Address 3400 Hickory Road	City	Lake George, MI 48633
AQD Source ID (SRN) N5581 RO Permit No.	II-ROP-N5581-2013	RO Permit Section No. 1
Please check the appropriate box(es):		
☐ Annual Compliance Certification (General Condition No	. 28 and No. 29 of the RO Per	mit)
Reporting period (provide inclusive dates): From	То	
1. During the entire reporting period, this source was in con each term and condition of which is identified and included be is/are the method(s) specified in the RO Permit.		
☐ 2. During the entire reporting period this source was in co		
each term and condition of which is identified and includ enclosed deviation report(s). The method used to determine	e compliance for each term an	d condition is the method specified in
the RO Permit, unless otherwise indicated and described on	the enclosed deviation report(s	3).
Semi-Annual (or More Frequent) Report Certification (G	General Condition No. 23 of th	e RO Permit)
Reporting period (provide inclusive dates): From	To	
1. During the entire reporting period, ALL monitoring and a and no deviations from these requirements or any other term		ements in the RO Permit were met
 2. During the entire reporting period, all monitoring and ass no deviations from these requirements or any other terms or enclosed deviation report(s). 	ociated recordkeeping requiren conditions occurred, EXCEPT	nents in the RO Permit were met and for the deviations identified on the
☑ Other Report Certification		
Reporting period (provide inclusive dates): From 3/18/	′2013 To 3/18/2	018
Additional monitoring reports or other applicable documents re	•	ached as described:
NOx and CO emissions testing report per perm	it condition C.V.1 & 2.	
l certify that, based on information and belief formed after reaso supporting enclosures are true, accurate and complete.	nable inquiry, the statements	and information in this report and the
Randy Schmidgall	Vicepresident US Opera	
Name of Responsible Official (print or type)	Title	Phone Number
Simblelle Sharll		12/18/2015
Signature of Responsible Official		Date

COMPLIANCE TEST REPORT GREAT LAKES GAS TRANSMISSION LTD. PARTNERSHIP FARWELL COMPRESSOR STATION STATIONARY GAS TURBINE EU-UNIT 1206 LAKE GEORGE, MICHIGAN

Prepared for:



TransCanada's GLGT Ltd. Partnership Lake George, MI

Prepared by:

EQM

Environmental Quality Management, Inc.
1280 Arrowhead Court
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Crown Point, IN 46307
(219) 661-9900
www.eqm.com

PN: 050614.0033

December 2015

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PREFACE

I, Karl Mast, do hereby certify that the source emissions testing conducted at TransCanada in Lake George, MI was performed in accordance with the procedures set forth by the United States Environmental Protection Agency, and that the data and results submitted within this report are an exact representation of the testing.

Karl Mast

Test Supervisor

I, Karl Mast, do hereby attest that all work on this project was performed under my direct supervision, and that this report accurately and authentically presents the source emissions testing conducted at GLGT's Farwell Compressor Station in Lake George, MI.

Karl Mast

Test Supervisor

SUMMARY

The compliance testing was performed on the EU-Unit 1206 Stationary Gas Turbine in fulfillment of Michigan Department of Environmental Quality (MDEQ) permit no. MI-ROP-N5581-2013. The results of the testing are detailed in the following tables.

EU-UNIT 1206 Average NOx Test Results (NOx 25 ppmvd @ 15% O2)					
Load Condition	Results	Pass/Fail			
High	16.79	Pass			
Mid-High	12.18	Pass			
Mid-Low	11.05	Pass			
Low	12.58	Pass			
Permit Limit	25	N.A.			

EU-UNIT 1206 Average NOx Test Results (lb/hr)					
	(lb/hr)				
Load Condition	Results	Pass/Fail			
High	4.82	Pass			
Mid-High	3.21	Pass			
Mid-Low	2.62	Pass			
Low	2.62	Pass			
Permit Limit	8.0	N.A.			

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1. INTRODUCTION

This report presents the results of the source emissions testing conducted by Environmental Quality Management, Inc. (EQ) for TransCanada's Great Lakes Gas Transmission Ltd. Partnership (GLGT) at Farwell compressor station, near Lake George, MI, which is located in Clare County.

The primary purpose of this testing program was to conduct emissions testing to determine compliance with operating permit No. MI-ROP-N5581-2013 for Stationary Unit EU-UNIT 1206 Turbine (EU 1206) at GLGT's gas compressor facility.

EQ's responsibility was to conduct the compliance testing for the O2, CO and NOx emissions rates and perform data reduction for conformance evaluation. GLGT's responsibility was to maintain process operating parameters and to assist in providing process operating data per compliance test requirements.

The following report provides information pertaining to TransCanada's process operations, and Compliance testing. The Compliance testing conducted on the Turbine 1206 was performed on Thursday, November 19, 2015, from 9:00 A.M. to 2:04 P.M.

The following requirements were specific for the testing program:

- 1. Equipment calibrations performed and calibration data provided.
- 2. Three (3) twenty (20) -minute, minimum, O₂ and NOx test runs performed at the Turbine 1206 at four load conditions pursuant to EPA, Title 40, Code of Federal Regulations, Part 60, Appendix A.
- 3. Process manufacturing operations maintained at 100% of capacities and production and fuel consumption rates recorded during the emissions testing periods.
- 4. All testing and analyses performed in accordance with current EPA test methodologies and analytical procedures for O₂ and NOx emissions determinations.
- 5. Stratification was found to be less than 5% in the turbine exhaust.

The testing program was approved by and/or coordinated with Roy Cannon, TransCanada's GLGT Company. The emission testing was performed by Karl Mast, Manager, Emission

Measurement & Project Manager, EQ, Zach Hill, Test Technician, EQ. The emission testing was observed by Rob Dickman of Michigan DEQ.

2. TEST RESULTS SUMMARY

The compliance testing was performed on the EU 1206 system in accordance with the requirements of the Title 40, Code of Federal Regulations, Part 60 (40 CFR 60, Appendix A) A summary of the test results is given below:

Table 1. Test Results Summary-NO_x (25 ppmvd @ 15% O₂)-EU 1206

EU-UN	EU-UNIT 1206 Average NOx Test Results (NOx 25 ppmvd @ 15% O2)					
Load Condition	Measured Limit	Pass/Fail				
High	16.79	Pass				
Mid-High	12.18	Pass				
Mid-Low	11.05	Pass				
Low	12.58	Pass				
Permit Limit	25	N.A.				

Table 2. Test Results Summary-NO_x (lb/hr)-EU 1206

EU-UNIT 1206 Average NOx Test Results (lb/hr)					
Load Condition	Measured Limit	Pass/Fail			
High	4.82	Pass			
Mid-High	3.21	Pass			
Mid-Low	2.62	Pass			
Lów	2.62	Pass			
Permit Limit	8.0	N.A.			

Based on the information provided above, the Turbine 1206 met the acceptance criteria during the course of the testing. A complete list of performance parameters for each test run that was performed at the stack sampling locations can be found in Table 3-14.

Additional testing information may be found in Appendix A.

Table 3. Operating Parameters and Ambient Conditions-High Load-EU 1206

Run	1	2	3	
Date	11/19/15	11/19/15	11/19/15	7
Time	900-919	920-939	940-959	Load I Average
Condition	нісн	шсн	HIGH	1
Operating Parameters				
Turbine				
Horsepower	9,211.5	9,433.6	9,531.1	9,392,1
% Ambient Load	95.0	97.3	98.3	96.8
CT RPM	14,889.0	14,907.0	14,899.0	14,898.3
% CT Speed	99.3	99,4	99.3	99.3
PT RPM	9,515.0	9,669.0	9,767.0	9,650.3
% PT Speed	79.3	80.6	81.4	80.4
Compressor				·:-
Measured Turbine Inlet Temperature Average - MGT (°F)	46,4	45.8	45,5	45.9
Compressor Suction Pressure (PSIG)	752	730	714	732
Compressor Suction Temperature (°F)	54.1	55.0	54.8	54.6
Compressor Discharge Pressure (PSIG)	860	864	867	863
Compressor Discharge Temperature (°F)	85.4	88.8	91.0	88.4
Compressor Flow (MMSCF/D)	743.6	711,9	687.7	714.4
Ambient Conditions				
Ambient Temperature (°F)	46.00	47.00	47.00	46.67
Barometric Pressure ("Hg)	28.42	28.42	28,44	28.43
Ambient Relative Humidity (%)	78.00	79.00	78.00	78.33
Absolute Humidity (grains/LB)	37.70	39.67	39.14	38,84

Table 4. Emissions Concentrations & Calculated Mass Emissions/Calculated Emissions

Concentrations/Calculated Flows- High Load-EU 1206

Run	1	2	3	1
Date	11/19/15	11/19/15	11/19/15]
Time	900-919	920-939	940-959	Load I Average
Condition	HIGH	HIGH	HIGH .	
Emissions Concentrations & Calculated Mass Emissions			1 12474.14	
NO _x ppm (BIAS Corrected)	14.21	15.74	16.28	15.41
NO _x g/BHP-HR	0.22	0.24	0.24	0.23
NOx lb/MMBTU factor	0.057	0.063	0.065	0.06
NO _X LB/HR	4.40	4.94	5.12	4.82
NO _X (ppm @ 15% O ₂)	15.44	17.13	17.79	16.79
NOx LB/MMBTU	0.057	0.063	0.066	0.06
CO ppm (BIAS Corrected)	9.95	8.85	9,23	9.34
CO g/BHP-HR	0.09	0.08	80.0	0.09
CO LB/HR	1.87	1.69	1,77	1.78
CO (ppm @ 15% O ₂)	10.81	9.63	10.08	10.18
% O2 (BIAS Corrected)	15.47	15,48	15.50	15.48
Calculated Emissions Concentrations			Mark Hart Hart	The House Care
% O ₂ (Wet)	14.47	14.48	14.50	14.48
Calculated Flows			til Historia A. A. A. A.	
Fuel Flow - (SCFM)	1,225.2	1,239.8	1,237.3	1,234
Fuel Flow - (SCFH) From Screen	73,510	74,390	74,240	74,047
Exhaust Flow (LB/HR)	169,858	172,135	172,334	171,443
Exhaust Flow (WSCFM)	44,140	44,668	44,578	44,462
Air Flow (WSCFM)	41,503	42,076	42,146	41,908
Heat Rate (BTU/HP-HR)	7,586	7,496	7,404	7,495
** BASED ON FUEL SPECIFIC DRY F-FACTOR CALCULATION * BASED ON CARBON BALANCE (STOICH. + 02) - A/F IS TOTAL MASS RATIO				

Table 5. Operating Parameters and Ambient Conditions- Mid-High Load-EU 1206

Run	10	11	12	
Date	11/19/15	11/19/15	11/19/15	-
Time	1305-1324	1325-1344	1345-1404	Load 4 Average
Condition	MID HIGH	MID HIGH	MID HIGH	1
Operating Parameters				
Turbine	1			
Horsepower	8,283.6	8,400.4	8,495.3	8,393.1
% Ambient Load	85.4	86.6	87.6	86.5
CT RPM	14,400	14,403	14,399	14,401
% CT Speed	96.0	96.0	96.0	96.0
PT RPM	9,621	9,721	9,812	9,718
% PT Speed	80.2	81,0	81.8	81.0
Compressor		7		4 17
Measured Turbine Inlet Temperature Average - MGT (°F)	45.8	46,7	44.6	45.7
Compressor Suction Pressure (PSIG)	673	667	662	668
Compressor Suction Temperature (°F)	54.6	53,6	53.7	54.0
Compressor Discharge Pressure (PSIG)	883	887	891	887
Compressor Discharge Temperature (°F)	95.7	96.8	53.7	82,1
Compressor Flow (MMSCF/D)	566.6	549.1	538.2	551.3
Ambient Conditions		-		
Ambient Temperature (°F)	45.0	45.0	44.0	44.67
Barometric Pressure ("Hg)	28.49	28.49	28.50	28.49
Ambient Relative Humidity (%)	51.0	51.0	50.0	50.67
Absolute Humidity (grains/LB)	23,60	23.60	22.26	23.15

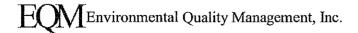


Table 6. Emissions Concentrations & Calculated Mass Emissions/Calculated Emissions
Concentrations/Calculated Flows - Mid-High Load-EU 1206

	T	7	r	1
Run	10	11	12	_
Date	11/19/15	11/19/15	11/19/15	Load 4 Average
Time	1305-1324	1325-1344	1345-1404	
Condition	MID HIGH	MID HIGH	MID HIGH	
Emissions Concentrations & Calculated Mass Emissions		1 1 1 1 1 1 1 1		
NO _x ppm (BIAS Corrected)	9.60	10.81	10.72	10.38
NO _X g/BHP-HR	0.16	0.18	0.18	0.17
NOx lb/MMBTU factor	0.042	0.047	0.046	0.04
NO _X LB/HR	2.95	3.34	3.33	-3.21
NO _X (ppm @ 15% O ₂)	11,28	12.68	12.57	12.18
NOx LB/MMBTU	0.042	0.047	0.046	0.04
CO ppm (BIAS Corrected)	14.79	11.87	13.07	13.24
CO g/BHP-HR	0.15	0.12	0.13	0.13
CO LB/HR	2.77	2.23	2.47	2.49
CO (ppm @ 15% O ₂)	17.38	13.92	15.33	15.55
% O ₂ (BIAS Corrected)	15.88	15.87	15.87	15.87
Calculated Emissions Concentrations				i i saaan ji
% O ₂ (Wet)	17.14	17.17	17.11	17.14
Calculated Flows			pagagaran na akir	a a service of
Fuel Flow - (SCFM)	1,125.8	1,132.3	1,138.7	1,132
Fuel Flow - (SCFH) From Screen	67,550	67,940	68,320	67,937
Exhaust Flow (LB/HR)	174,750	175,592	176,322	175,554
Exhaust Flow (WSCFM)	40,561	40,795	41,023	40,793
Air Flow (WSCFM)	41,220	41,376	41,607	41,401
Heat Rate (BTU/HP-HR)	7,752	7,688	7,645	7,695
** BASED ON FUEL SPECIFIC DRY F-FACTOR CALCULATION * BASED ON CARBON BALANCE (STOICH. + 02)				
- A/F IS TOTAL MASS RATIO				

Table 7. Operating Parameters and Ambient Conditions- Mid-Low Load-EU 1206

Run	4	5	6	
Date	11/19/15	11/19/15	11/19/15	1
Time	1015-1034	1035-1054	1055-1114	Load 2 Average
Condition	MID LOW	MIDLOW	MIDLOW]
Operating Parameters				
Turbine	-		1. 1. The second	
Horsepower	6,661.8	6,675.7	6,704.6	6,680.7
% Ambient Load	68.7	68.8	69.1	68.9
CT RPM	13,902	13,902	13,904	13,902.7
% CT Speed	92.7	92.7	92.7	92.7
PT RPM	8,921	8,959	8,997	8,959.0
% PT Speed	74.3	74.7	75.0	74.7
Compressor				
Measured Turbine Inlet Temperature Average - MGT (°F)	45.5	45.6	45.8	45.6
Compressor Suction Pressure (PSIG)	697	691	684	691
Compressor Suction Temperature (°F)	54.3	54.8	54,5	54.5
Compressor Discharge Pressure (PSIG)	869	871	873	871
Compressor Discharge Temperature (°F)	89.4	91.0	91.7	90.7
Compressor Flow (MMSCF/D)	540.1	526.1	512,0	526,0
Ambient Conditions				
Ambient Temperature (°F)	45.00	45.00	45,80	45.00
Barometric Pressure ("Hg)	28.44	28,44	28,45	28.44
Ambient Relative Humidity (%)	79.00	79.00	79.00	79.00
Absolute Humidity (grains/LB)	36.73	36.73	36.72	36.73

Table 8. Emissions Concentrations & Calculated Mass Emissions/Calculated Emissions
Concentrations/Calculated Flows - Mid-Low Load-EU 1206

n	4	5	6	Ī
Run	·	·		-
Date	11/19/15	11/19/15	11/19/15	Load 2 Average
Time	1015-1034	1035-1054	1055-1114	ļ ·
Condition	MID LOW	MID LOW	MIDLOW	ļ
Emissions Concentrations & Calculated Mass Emissions		:	<u>ladidəsə te</u>	
NO _x ppm (BIAS Corrected)	9.70	9.56	8.89	9.38
NO _X g/BHP-HR	0.18	0.18	0.17	0.18
NOx lb/MMBTU factor	0.042	0.042	0.039	0.04
NO _X LB/HR	2.69	2.68	2.50	2.62
NO _X (ppm @ 15% O ₂)	11,33	11.28	10.53	11.05
NOx LB/MMBTU	0.042	0.042	0.039	0.04
CO ppm (BIAS Corrected)	13.59	12.59	13.17	13.12
CO g/BHP-HR	0.16	0.15	0,15	0.15
CO LB/HR	2.29	2.15	2,25	2.23
CO (ppm @ 15% O ₂)	15.88	14.86	15,60	15.45
% O ₂ (BIAS Corrected)	15.85	15.90	15.92	15.89
Calculated Emissions Concentrations	<u> </u>		- Marian Barrya.	region to the distriction of
% O ₂ (Wet)	16.72	16.73	16.53	16.7
Calculated Flows				
Fuel Flow - (SCFM)	1,020.3	1,020.7	1,020.3	1,020
Fuel Flow - (SCFH) From Screen	61,220	61,240	61,220	61,227
Exhaust Flow (LB/HR)	157,511	158,983	158,760	158,418
Exhaust Flow (WSCFM)	36,760	36,772	36,760	36,764
Air Flow (WSCFM)	37,137	37,517	37,654	37,436
Heat Rate (BTU/HP-HR)	8,736	8,720	8,680	8,712
** BASED ON FUEL SPECIFIC DRY F-FACTOR CALCULATION * BASED ON CARBON BALANCE (STOICH. + O2) - A/F IS TOTAL MASS RATIO				

Table 9. Operating Parameters and Ambient Conditions- Low Load-EU 1206

Run	7	8	9	
Date	11/19/15	11/19/15	11/19/15	╡
Time	1139-1158	1159-1218	1219-1238	Load 3 Average
Condition	row	LOW	LOW	7
Operating Parameters				:
Turbine			Market 19	
Horsepower	4,903.1	4,920.8	4,980.1	4,934.7
% Ambient Load	50.5	50.7	51.3	50.9
CT RPM	13,520	13,521	13,520	13,520.3
% CT Speed	90.1	90.1	90.1	91.6
PT RPM	8,368	8,409	8,447	8,498.0
% PT Speed	69.7	70.1	70.4	70.1
Compressor				
Measured Turbine Inlet Temperature Average - MGT (°F)	46.4	46.9	46.5	46.6
Compressor Suction Pressure (PSIG)	688	686	683	686
Compressor Suction Temperature (°F)	54.8	54,8	55.5	55
Compressor Discharge Pressure (PSIG)	872	874	875	873
Compressor Discharge Temperature (°F)	90.3	89.7	91.5	90.5
Compressor Flow (MMSCF/D)	407.4	398.5	395.5	400.5
Ambient Conditions		1 1 1 1 1 1 1		
Ambient Temperature (°F)	46.00	46.00	46.00	46.00
Barometric Pressure ("Hg)	28.47	28.47	28.47	28.47
Ambient Relative Humidity (%)	65.00	64.00	63.00	64.00
Absolute Humidity (grains/LB)	31.32	30.83	30.35	30.83

Table 10. Emissions Concentrations & Calculated Mass Emissions/Calculated Emissions

Concentrations/Calculated Flows - Low Load-EU 1206

Run	7	8	9	1
Date	11/19/15	11/19/15	11/19/15	_
Time	1139-1158	1159-1218	1219-1238	Load 3 Average
Condition	LOW	LOW	LOW	
Emissions Concentrations & Calculated Mass Emissions				
NO _x ppm (BIAS Corrected)	9.79	10,33	10.49	10.20
NO _x g/BHP-HR	0,23	0.24	0.25	0.24
NOx lb/MMBTU factor	0.044	0.047	0.048	0.05
NO _x LB/HR	2.52	2.65	2.69	2.62
NO _X (ppm @ 15% O ₂)	12.08	12,72	12.92	12.58
NOx LB/MMBTU	0.045	0.047	0.048	0.05
CO ppm (BIAS Corrected)	13.82	13.41	12,74	13.32
CO g/BHP-HR	0.20	0.19	0.18	0.19
CO LB/HR	2.17	2.10	1.99	2.08
CO (ppm @ 15% O ₂)	17.06	16.52	15.69	16.42
% O ₂ (BIAS Corrected)	16.12	16.11	16.11	16.11
Calculated Emissions Concentrations				
% O ₂ (Wet)	16.98	17.00	17.04	17.01
Calculated Flows	<u> 114 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 </u>			
Fuel Flow - (SCFM)	897.3	896.5	895.8	897
Fuel Flow - (SCFH) From Screen	53,840	53,790	53,750	53,793
Exhaust Flow (LB/HR)	145,488	145,085	145,095	145,223
Exhaust Flow (WSCFM)	32,329	32,299	32,275	32,301
Air Flow (WSCFM)	34,485	34,382	34,356	34,408
Heat Rate (BTU/HP-HR)	10,438	10,391	10,260	10,363
** BASED ON FUEL SPECIFIC DRY F-FACTOR CALCULATION * BASED ON CARBON BALANCE (STOICH, + O2) - A/F IS TOTAL MASS RATIO				

Table 11. Gas Composition-AGA Standard-EU 1206

	(Based on AGA sta	indard conditions	of 14.73 psia and	60 F)		1
Constituent	Mol. Fraction	MW	weighted MW	DENSITY	Weighted Density	<u> </u>
NITROGEN	0.013542	28.0134	0.3794	0.07399	0.00100	Î
CARBON DIOX.	0.006596	44.01	0.2903	0.11624	0.00077	1
METHANE	0.90874	16.04315	14.5791	0.04237	0.03850	
ETHANE	0.063259	30.0703	1.9022	0.07942	0.00502	1
PROPANE	0.00628	44.0975	0.2769	0.11647	0.00073	
I-BUTANE	0.00032	58.1246	0.0186	0.15352	0.00005	
N-BUTANE	0.000468	58.1246	0.0272	0.15352	0.00007	
I-PENTANE	0.000062	72.1518	0.0045	0.19057	0.00001	
N-PENTANE	0.000026	72.1518	0.0019	0.19057	0.00000	
HEXANE 4	0.000038	95.958	0.0036	0.32000	0.00001	f
	0.9993	17.4836	17.4836	0.02000	0.04618	
			*			
Upper Dry Heat Value	1053.24	btu/dscf		<u>. </u>	; 	: }
Low Dry Heat Value	951	btu/dscf	t Lead on the second	en e	t Francis III i i i i i i i i i i i i i i i i i	: } ~
Specific Gravity				: :		ļ
DENSITY	0.0462	_lb/cf	1		i	
Constituent	LHV ideal	LHV(i) ideal	LHV(i) real	HHV ideal	HHV(i) ideal	HHV(i) r
NITROGEN		0.00	0.00		0	0
CARBON DIOX. METHANE	911.5	0.00 828.32	0.00 830.23	1012	919.64488	921.77
ETHANE		020.32		1 1012		
ELITANCE CANCELLAND	4000 4	100.62		1779 7		
DOODANE	1622.4	102.63	102.87	1773.7	112.2024883	112.46
PROPANE	2320.3	14.57	102.87 14.61	2522.1	112.2024883 15.838788	112.46 15.88
FBUTANE	2320.3 3007.3	14.57 0.96	102.87 14.61 0.96	2522.1 3260.5	112.2024883 15.838788 1.04336	112.46 15.88 1.05
I-BUTANE N-BUTANE	2320.3 3007.3 3017.8	14.57 0.96 1.41	102.87 14.61 0.96 1.42	2522.1 3260.5 3270.1	112.2024883 15.838788 1.04336 1.5304068	112.46 15.88 1.05 1.53
I-BUTANE N-BUTANE I-PENTANE	2320.3 3007.3 3017.8 3707.6	14.57 0.96 1.41 0.23	102.87 14.61 0.96 1.42 0.23	2522.1 3260.5 3270.1 4011.1	112.2024883 15.838788 1.04336 1.5304068 0.2486882	112.46 15.88 1.05 1.53 0.25
I-BUTANE N-BUTANE	2320.3 3007.3 3017.8	14.57 0.96 1.41	102.87 14.61 0.96 1.42	2522.1 3260.5 3270.1	112.2024883 15.838788 1.04336 1.5304068	112.46 15.88 1.05 1.53
I-BUTANE N-BUTANE I-PENTANE N-PENTANE	2320.3 3007.3 3017.8 3707.6 3715.5	14.57 0.96 1.41 0.23 0.10	102.87 14.61 0.96 1.42 0.23 0.10	2522.1 3260.5 3270.1 4011.1 4018.2	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732	112.46 15.88 1.05 1.53 0.25 0.10 0.20
I-BUTANE N-BUTANE I-PENTANE N-PENTANE	2320.3 3007.3 3017.8 3707.6 3715.5	14.57 0.96 1.41 0.23 0.10 0.19	102.87 14.61 0.96 1.42 0.23 0.10 0.19	2522.1 3260.5 3270.1 4011.1 4018.2	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744	112.46 15.88 1.05 1.53 0.25 0.10 0.20
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE +	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5	14.57 0.96 1.41 0.23 0.10 0.19 LHV real	102.87 14.61 0.96 1.42 0.23 0.10 0.19	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744	112.46 15.88 1.05 1.53 0.25 0.10 0.20
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i)	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744	112.46 15.88 1.05 1.53 0.25 0.10 0.20
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(I) 5.95848E-05	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX,	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX, METHANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX. METHANE ETHANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392 1.03824	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261 0.065678024	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116 0.0239	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384 0.00151189	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX, METHANE ETHANE PROPANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392 1.03824 1.52256	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261 0.065678024 0.009561677	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116 0.0239 0.0344	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384 0.00151189 0.000216032	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX, METHANE ETHANE PROPANE I-BUTANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392 1.03824 1.52256 2.00684	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261 0.065678024 0.009561677 0.000642189	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116 0.0239 0.0344 0.0458	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384 0.00151189 0.000216032 0.000014656	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX, METHANE ETHANE PROPANE I-BUTANE N-BUTANE N-PENTANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392 1.03824 1.52256 2.00684 2.00684 2.49115	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261 0.065678024 0.009561677 0.000642189 0.000939201 0.000154451 6.47699E-05	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116 0.0239 0.0344 0.0458 0.0478	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384 0.00151189 0.000216032 0.000014656 2.23704E-05 3.6022E-06 1.6406E-06	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20 1053.24
I-BUTANE N-BUTANE I-PENTANE N-PENTANE HEXANE + Constituent NITROGEN CARBON DIOX, METHANE ETHANE PROPANE I-BUTANE N-BUTANE I-PENTANE	2320.3 3007.3 3017.8 3707.6 3715.5 4900.5 SG 0.96723 1.51955 0.55392 1.03824 1.52256 2.00684 2.00684 2.49115	14.57 0.96 1.41 0.23 0.10 0.19 LHV real SG(i) ideal 0.013098229 0.010022952 0.503369261 0.065678024 0.009561677 0.000642189 0.000939201 0.000154451	102.87 14.61 0.96 1.42 0.23 0.10 0.19 950.60 b 0.0044 0.0197 0.0116 0.0239 0.0344 0.0458 0.0478 0.0581	2522.1 3260.5 3270.1 4011.1 4018.2 5288.8 b(i) 5.95848E-05 0.000129941 0.010541384 0.00151189 0.000216032 0.000014656 2.23704E-05 3.6022E-06	112.2024883 15.838788 1.04336 1.5304068 0.2486882 0.1044732 0.2009744 HHV real	112.46 15.88 1.05 1.53 0.25 0.10 0.20

Table 12. Gas Composition-EPA Standard-EU 1206

GAS COMPOSITION	(Based onEPA sta	ndard conditions	of 14.696 psia and	68 F)	1	
Constituent	Mol. Fraction	MW	weighted MW			
NITROGEN	0.0135	28.0134	0.3794			
GARBON DIOX.	0:0066	44,01	0,2903			
METHANE	0.9087	16.04315	14.5791	Carbon Wt. %:	0.731332	i i
ETHANE	0.0633	30.0703	1,9022	Hydrogen Wt. %:		1
PROPANE	0.0063	44.0975	0.2769	the contract of the contract o	0.012072	·
I-BUTANE	0.0003	58.1246	0.0186	Nitrogen Wt. %:		·
N-BUTANE	0.0005	58.1246	0.0272	a a ar a g aranan aras .	1.0000	
I-PENTANE	0.0001	72,1518	0.0045		T	i
N-PENTANE	0.0000	72.1518	0.0019	*** **		
HEXANE +	0,0000	95,958	0.0036	Commence of the contract of th	.f.,	i
	0.9993	MW	<u> </u>		'	!
	0.0000	1	1			
Upper Dry Heat Value	1051	btu/dscf	Mole Weight	17.4836	blu/dscf	¦
Low Dry Heat Value		'btu/dscf	A F-Factor (calc)	8700	dscf/MMbtu	
Specific Gravity			ractor (care)	Oroo	_ GOOD ITHITIDIU	
Density		lb/scf	-			· · · · · · · · · · · · · · · · · · ·
belisky	0,0707	1000				
		the second second	1			
Total Carbons	1.0645	Total H	4.0743		1	
Constituent	LHV ideal	LHV(i) ideal	LHV(i) real	HHV ideal	HHV(i) ideal	HHV(i) real
NITROGEN		0.00	0.00		0	0
CARBON DIOX.		0.00	0.00		0	0
METHANE	913	829.68	831.59	1010	917.8274	919.95
ETHANE	1624	102.73	102.97	1769.6	111.9431264	112.20
PROPANE	2322	14.58	14.62	2516.1	15.801108	15.84
I-BUTANE	3010	0.96	0.97	3251.9	1.040608	1.04
N-BUTANE	3020	1.41	1.42	3262.3	1.5267564	1.53
LPENTANE	3711	0.23	0.23	4000.9	0.2480558	0.25
N-PENTANE	3718	0.10	0.10	4008.9	0.1042314	0.10
HEXANE+	4904	0.19	0.19	5278	0.200564	0.20
		LHV real	952.08		HHV real	1051.11
Constituent	SG	SG(i) ideal	b	b(i)		
NITROGEN	0.96723	0.013098229	0.0044	5.95848E-05	1	
CARBON DIOX.	1.51955	0.010022952	0.0197	0.000129941	Compressibility	,
METHANE	0.55392	0.503369261	0.0116	0.010541384	0.997696909	
ETHANE	1.03824	0.065678024	0.0239	0.00151189		
PROPANE	1.52256	0.009561677	0.0344	0.000216032	1	
I-BUTANE	2.00684	0.000642189	0.0458	0.000014656	1	
N-BUTANE	2.00684	0.000939201	0.0478	2,23704E-05	1	
IPENTANE	2.49115	0.000154451	0.0581	3.6022E-06	.	
N-PENTANE	2.49115	6.47699E-05	0.0631	1.6406E-06	1	
HEXANE +	3.3127	0.000125883	0.0802	3.0476E-06	1	

3. PROCESS DESCRIPTION

TransCanada's GLGT Farwell Compressor Station is located in Lake George, Michigan and operates a Solar Taurus 70 stationary gas turbine burning only pipeline quality natural gas labeled as EU-UNIT 1206. The unit peak load HP rating is 9,700 at ISO conditions. The plant is located at 3400 Hickory Road, Lake George, MI.

The Solar Taurus 70 is a simple cycle, natural gas fired, single-shaft turbine. In a simple cycle turbine, filtered atmosphere air is first compressed by the axial with natural gas in the combustor. The hot exhaust gases expand through two turbine stages. The gas producer (G.P.) turbine drives the axial flow air while the power turbine (P.T.) drives the centrifugal pipeline compressor. The pipeline gas compressor moves natural gas through the pipeline by compressing it from an initial "suction" state to more compressed "discharge" state.

The following tables provide a summary of the rating and production data for the Turbine 1206:

Table 13. Turbine Rating Information-EU 1206

		Rated GG RPM:	15,000	RPM
		Rated PT RPM:	12,000	RPM
Company:	T.C.	Rated BHP:	9,700	BHP
Station:	Farwell	4		
Unit:	Unit 6			
Turbine Type:	Solar	AGA UDHV:	1,053	btu/dsef
Date:	11/19/2015	AGA LDHV :	951	btu/dscf
		PCD_{ref} :	342.0	PSIG
		PCD _{ref} :	356.1	PSIA

Table 14. Production Data-Horse Power at ISO Conditions-EU 1206

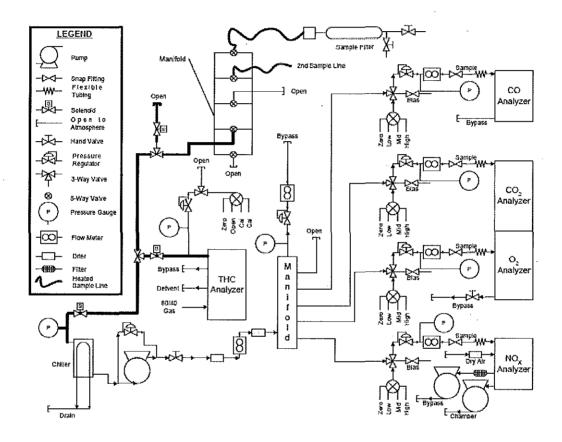
Run No.	High Load	Mid-High Load
Kun 110.	riigh Load	Whu-High Load
1	9,211.5	8,283.6
2	9,433.6	8,400.4
3	9,531.1	8,495.3
Average	9,392.1	8,393.1
ak Load Rated HP	9,700	9,700

Table 15. Production Data-Horse Power at ISO Conditions-EU 1206

Horse Power at ISO Conditions-EU 1206				
Run No.	Mid-Low	Low		
1	6,661.8	4,903.1		
2	6,675.7	4,920.8		
3	6,704.6	4,980.1		
Average	6,680.7	4,934.7		
Peak Load Rated HP	9,700	9,700		

Additional information may be found in Appendix B.

Figure 1. Flow Schematic



Additional Information pertaining to the Fuel Flows may be found in Appendix B.

4. TEST PROCEDURES

EQ and EQ's affiliates and subcontractors use current U.S. EPA accepted testing methodologies in their Air Quality Programs as listed in the U.S. Code of Federal Regulations, Title 40, Part 60, Appendix A. For this testing program, the following specific methodologies were utilized:

- U.S EPA Method 1 Sample and Velocity Traverses for Stationary Sources
- U.S EPA Method 2 Determination of Stack Gas Velocity and Volummetric Flow Rate (Type S Pitot Tube)
- U.S. EPA Method 3A Determination of Oxygen and Carbon Dioxide Concentrations in Emissions From Stationary Sources (Instrumental Analyzer Procedure)
- U.S EPA Method 4 Determination of Moisture Content in Stack Gases
- U.S. EPA Method 7E Determination of Nitrogen Oxides Emissions From Stationary Sources (Instrumental Analyzer Procedure)
- U.S. EPA Method 10 Determination of Carbon Monoxide Emissions From Stationary Sources (Instrumental Analyzer Procedure)

USEPA Methods 3A, 7E and 10 were performed at the Exhaust Stack sampling location by continuously extracting a gas sample from the stack through a single point stainless steel sample probe. The extracted sample was pulled through a series of filters to remove any particulate matter. Directly after the probe, the sample was conditioned by a series of refrigeration dryers to remove moisture from the gas stream. After the refrigeration dryers, the sample was transported through a Teflon® line to the analyzers. The flow of the stack gas sample was regulated at a constant rate to minimize drift.

At the start of the day, each monitor was checked for calibration error by introducing zero, midrange and high-range EPA Protocol 1 gases to the measurement system at a point upstream of the analyzers. In this report, the calibration error test is referred to as instrument calibration. The gas was injected into the sampling valve located at the outlet of the sampling probe. The bias test was conducted before and after each consecutive test run by introducing zero and upscale calibration gases for each monitor. The upscale calibration gases used for each monitor were the high calibration gases.

Measurement System Performance Specifications were as follows:

- Analyzer Calibration Error Less than +/- 2% of the span of the zero, mid-range and high-range calibration gases.
- Sampling System Bias Less than +/-5% of the span for the zero, mid-range and high-

range calibration gases.

- Zero Drift Less than +/-3% of the span over the period of each test run.
- Calibration Drift Less than +/-3% of the span over the period of each set of runs.

Calculations that were used in this testing event for the Turbine EU 1206 are as follows:

Calibration Correction

$$C_{GAS} = \left(C_R - C_O\right) \frac{C_{MA}}{C_M - C_O}$$

Where:

C_{GAS}: Corrected flue gas concentration (ppmvd)

C_R: Flue gas concentration (ppmvd)

C_O: Average of initial and final zero checks (ppmvd) C_M: Average of initial and final span checks (ppmvd)

C_{MA}: Actual concentration of span gas (ppmvd)

EPA F-Factor

$$F_{d} = \frac{\left[(3.64 \cdot H_{Wt\%} \cdot 100) + (1.53 \cdot C_{Wt\%} \cdot 100) \right]}{\frac{GCV}{\rho_{FuelGas}}} \cdot 10^{6} + \frac{\left[(0.14 \cdot N_{2Wt\%} \cdot 100) - (0.46 \cdot O_{2Wt\%} \cdot 100) \right]}{\frac{GCV}{\rho_{FuelGas}}} \cdot 10^{6}$$

Where:

 F_d : Fuel specific F-factor, dscf/MMBtu

 $H_{Wt\%}$: Hydrogen weight percent Carbon weight percent N_{2Wt%}: Nitrogen weight percent O_{2Wt%}: Oxygen weight percent

GCV: Heating value of the fuel, BTU/dscf

 $\rho_{Fuel\ Gas}$: Density of the fuel gas, lb/scf

NO_x Corrected to 15% O₂

$$Em = NO_X \left(\frac{5.9}{20.9 - \%O_2} \right)$$

Where:

E_{m:} Pollutant concentration corrected to 15% O₂, ppm

NO_x: Pollutant concentration, ppm

%O₂: Oxygen concentration in percent, measured on a dry basis

Mass Emissions Calculations

The F-factor Method and guidance from Part 75 will be used to calculate the mass emissions rates.

$$Em = Cd \times Fd \times \frac{20.9}{(20.9 - \%O_2)} \times Qh \times \frac{GCV}{10^6}$$

Where:

E_m: Pollutant emission rate, lb/hr

C_d: Pollutant concentration, lb/scf

F_d: Fuel specific F-factor, dscf/MMBtu

%O₂: Oxygen concentration, dry basis

Qh: Fuel rate from calibrated AGA specified

Meter, scfh.

GCV: Heating value of the fuel, Btu/scf

To Convert from:	To	Multiply by:
ppm CO	lb/scf	7.268 x 10 ⁻⁸
ppm NO _x	lb/scf	1.194 x 10 ⁻⁷

5. QUALITY ASSURANCE PROCEDURES

Each reference method presented in the U.S. Code of Federal Regulations details the instrument calibration requirements, sample recovery and analysis, data reduction and verification, types of equipment required, and the appropriate sampling and analytical procedures to ensure maximum performance and accuracy. EQ and EQ's affiliates and subcontractors adhere to the guidelines for quality control set forth by the United States Environmental Protection Agency. These procedures are outlined in the following documents:

- Code of Federal Regulations, Title 40, Part 51
- Code of Federal Regulations, Title 40, Part 60
- Quality Assurance Handbook, Volume 1, EPA 600/9-76-005
- Quality Assurance Handbook, Volume 2, EPA 600/4-77-027a
- Quality Assurance Handbook, Volume 3, EPA 600/4-77-027b

6. CONCLUSIONS

An Emissions Test was conducted on the Turbine EU-1206 at TransCanada's GLGT Company's Farwell Compressor Station located in Lake George, MI. The testing was conducted on November 19, 2015.

During the course of the testing, the Turbine EU-1206 conformed to the requirements of Code Of Federal Regulations, Title 40, Part 60, Appendix A.

The usefulness and/or significance of the emissions values presented in this document as they relate to the compliance status of the Turbine EU-1206 emissions shall be determined by others.

For additional information pertaining to the testing program see Appendix E of this report.