Consumers Energy

A CMS Energy Company

Environmental Services

April 30, 2014

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: FIRST QUARTER 2014 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the First Quarter 2014 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 1st quarter 2014, so this quarterly report does not contain any information on C/D waste wood shipments.

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,

Jason Prentice

Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Karen Kajiya-Mills, MDEQ-AQD
Richard Brown, TES Filer City Station (Electronic Only)
Filer City Compliance File-Q, SA, A File

TESFiler0002752

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT 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 Permit (ROP) 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 specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 01/01/2014 To 03/31/2014

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 1st Quarter of 2014 (January – March).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman	General Manager	231-723-6573
Name of Responsible Official (print or type)	Title	Phone Number

Henry M. Hoffman — 4-28-14

Signature of Responsible Official — Date

* Photocopy this form as needed.

EQP 5736 (Rev 11-04)

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2014
Report Period Ending: **March 31** X **June 30** ___ **Sept. 30** ___ **Dec. 31** ___

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET
   FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility: BOILER #1 X BOILER #2 X

5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
   GEESI/FABRIC FILTER BAGHOUSES

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
   (NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 4-30-14

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffman

(Date) 4-28-14

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	N / A	N / A	N / A	N / A

[1] T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
8. Zero/Span Values														
ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM [1] L: 200 PPM [1]	H: 1,500 PPM [1] L: 200 PPM [1]	500 PPM	500 PPM	H: 3,000 PPM [2] L: 300 PPM [2]	H: 3,000 PPM [2] L: 300 PPM [2]	20.0 %	20.0 %	20.0 %	20.0 %

[1] The span values for the SO_2 Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

[2] The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/20/2013	10/31/2006 (Stk SO_2 = 09/25/08)	10/18/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2013	10/26/2006
	Boiler 2 Gas CEMS	08/21/2013	10/31/2006 (Stk SO_2 = 09/25/08)	10/23/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2013	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE
11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	X		
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	X		
3. Are the data representative of plant performance?	X		
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	X		
5. Was compliance with the standards achieved during the reporting period?		X	
Boiler #1			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour	X		
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	
Boiler #2			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour	X		
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	

T.E.S. FILER CITY STATION

V. EXCESS EMISSION REPORT - SO_2 AND NO_x

SO_2 EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO_2 EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO_2 EVENTS (30 Day Rolling Average Limit of SO_2 Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

T.E.S. FILER CITY STATION

VI. QUALITY ASSURANCE DATA

1a. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 1

INLET CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	02/20/2014; 05:00-07:59 (3 Hours)	Inlet CO_2 analyzer failed the daily calibration error test.	Changed the analyzer filter and ran another calibration error test, which passed.

STACK CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	02/20/2014; 06:00-07:59 (2 Hours)	Inlet SO_2 analyzer failed the daily calibration error test.	Changed the analyzer filter and ran another calibration error test, which passed.

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs). However, there was a short OOC period associated with excessive CD error for the Unit 1 inlet SO_2 and CO_2 CEMS.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

1b. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 2

INLET CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1b of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION
AIR EMISSION SUMMARY

JANUARY 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44604 /	44640	99.92%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.92%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

FEBRUARY 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	40314 /	40320	99.99%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	40320 /	40320	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%
YTD			99.96%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

MARCH 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.97%			100.00%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

1st QUARTER 2014

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	**44,634 /**	**44,640**	**99.99%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**
FEB	**40,314 /**	**40,320**	**99.99%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**
MAR	**44,634 /**	**44,640**	**99.99%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**
1st Quarter	**129,582 /**	**129,600**	**99.99%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**
YTD			**99.99%**			**100.00%**			**100.00%**			**100.00%**			**100.00%**
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JAN	**44,604 /**	**44,640**	**99.92%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**
FEB	**40,320 /**	**40,320**	**100.00%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**	**672 /**	**672**	**100.00%**
MAR	**44,640 /**	**44,640**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**	**744 /**	**744**	**100.00%**
1st Quarter	**129,564 /**	**129,600**	**99.97%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**	**2160 /**	**2160**	**100.00%**
YTD			**99.97%**			**100.00%**			**100.00%**			**100.00%**			**100.00%**

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 01/01/14 To 03/31/14

Facility Name: T.E.S. Filer City Station **Location:** Filer City, MI **Source:** Boiler 1

Period: 01/01/14 00:00:00 To 03/31/14 23:59:59; Records = 90

	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
01/01/14	24	0.425	30	0.192	24	0.154	30	93.57	30	1.81	24
01/02/14	24	0.427	30	0.122	24	0.153	30	93.63	30	1.47	24
01/03/14	24	0.428	30	0.144	24	0.152	30	93.64	30	1.56	24
01/04/14	24	0.429	30	0.152	24	0.152	30	93.65	30	1.28	24
01/05/14	24	0.430	30	0.081	24	0.150	30	93.75	30	0.84	24
01/06/14	24	0.432	30	0.091	24	0.148	30	93.83	30	0.97	24
01/07/14	24	0.433	30	0.151	24	0.147	30	93.84	30	1.67	24
01/08/14	24	0.433	30	0.154	24	0.146	30	93.91	30	1.55	24
01/09/14	24	0.434	30	0.104	24	0.143	30	94.01	30	1.01	24
01/10/14	24	0.433	30	0.078	24	0.140	30	94.14	30	1.36	24
01/11/14	24	0.432	30	0.105	24	0.139	30	94.16	30	0.91	24
01/12/14	24	0.432	30	0.121	24	0.139	30	94.16	30	1.18	24
01/13/14	24	0.433	30	0.134	24	0.138	30	94.20	30	1.42	24
01/14/14	24	0.433	30	0.093	24	0.136	30	94.27	30	0.97	24
01/15/14	24	0.433	30	0.128	24	0.135	30	94.31	30	1.80	24
01/16/14	24	0.433	30	0.173	24	0.136	30	94.27	30	1.52	24
01/17/14	24	0.432	30	0.151	24	0.137	30	94.23	30	1.53	24
01/18/14	24	0.432	30	0.168	24	0.138	30	94.17	30	1.74	24
01/19/14	24	0.432	30	0.208	24	0.138	30	94.18	30	2.15	24
01/20/14	24	0.431	30	0.174	24	0.139	30	94.18	30	1.73	24
01/21/14	24	0.431	30	0.145	24	0.138	30	94.20	30	1.53	24
01/22/14	24	0.430	30	0.149	24	0.138	30	94.20	30	1.54	24
01/23/14	24	0.431	30	0.091	24	0.136	30	94.26	30	0.86	24
01/24/14	24	0.431	30	0.088	24	0.134	30	94.34	30	0.90	24
01/25/14	24	0.433	30	0.101	24	0.132	30	94.36	30	0.89	24
01/26/14	24	0.436	30	0.065	24	0.130	30	94.37	30	0.72	24
01/27/14	24	0.438	30	0.116	24	0.129	30	94.36	30	1.15	24
01/28/14	24	0.440	30	0.137	24	0.131	30	94.22	30	1.38	24
01/29/14	24	0.441	30	0.160	24	0.131	30	94.12	30	1.54	24
01/30/14	24	0.441	30	0.124	24	0.130	30	94.09	30	1.16	24
01/31/14	24	0.442	30	0.114	24	0.127	30	94.13	30	1.18	24
02/01/14	24	0.443	30	0.102	24	0.127	30	94.11	30	1.08	24
02/02/14	24	0.444	30	0.124	24	0.126	30	94.08	30	1.41	24
02/03/14	24	0.445	30	0.132	24	0.125	30	94.06	30	1.39	24
02/04/14	24	0.446	30	0.119	24	0.127	30	93.96	30	1.21	24
02/05/14	24	0.446	30	0.101	24	0.127	30	93.89	30	1.07	24
02/06/14	24	0.447	30	0.081	24	0.125	30	93.94	30	0.89	24

	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
02/07/14	24	0.448	30	0.105	24	0.123	30	93.96	30	0.97	24
02/08/14	24	0.448	30	0.110	24	0.123	30	93.91	30	1.03	24
02/09/14	24	0.450	30	0.080	24	0.123	30	93.87	30	0.83	24
02/10/14	24	0.452	30	0.138	24	0.124	30	93.77	30	1.10	24
02/11/14	24	0.454	30	0.113	24	0.124	30	93.74	30	1.04	24
02/12/14	24	0.456	30	0.112	24	0.123	30	93.75	30	1.01	24
02/13/14	24	0.458	30	0.113	24	0.124	30	93.70	30	0.98	24
02/14/14	24	0.459	30	0.140	24	0.124	30	93.64	30	1.25	24
02/15/14	24	0.460	30	0.159	24	0.124	30	93.62	30	1.47	24
02/16/14	24	0.463	30	0.109	24	0.123	30	93.65	30	1.01	24
02/17/14	24	0.465	30	0.139	24	0.122	30	93.64	30	1.10	24
02/18/14	24	0.467	30	0.111	24	0.118	30	93.72	30	0.90	24
02/19/14	24	0.469	30	0.083	24	0.115	30	93.80	30	0.63	24
02/20/14	24	0.470	30	0.168	24	0.116	30	93.73	30	1.32	24
02/21/14	24	0.471	30	0.139	24	0.116	30	93.71	30	1.27	24
02/22/14	24	0.472	30	0.088	24	0.116	30	93.66	30	1.03	24
02/23/14	24	0.473	30	0.119	24	0.117	30	93.57	30	1.36	24
02/24/14	24	0.473	30	0.172	24	0.119	30	93.47	30	1.71	24
02/25/14	24	0.471	30	0.115	24	0.121	30	93.45	30	1.14	24
02/26/14	24	0.472	30	0.102	24	0.120	30	93.51	30	1.17	24
02/27/14	24	0.473	30	0.170	24	0.121	30	93.46	30	1.95	24
02/28/14	24	0.473	30	0.159	24	0.121	30	93.51	30	1.70	24
03/01/14	24	0.473	30	0.169	24	0.123	30	93.48	30	1.69	24
03/02/14	24	0.474	30	0.139	24	0.124	30	93.46	30	1.46	24
03/03/14	24	0.474	30	0.135	24	0.125	30	93.41	30	1.41	24
03/04/14	24	0.473	30	0.129	24	0.125	30	93.42	30	1.40	24
03/05/14	24	0.473	30	0.130	24	0.125	30	93.45	30	1.31	24
03/06/14	24	0.473	30	0.088	24	0.124	30	93.51	30	0.92	24
03/07/14	24	0.472	30	0.114	24	0.124	30	93.50	30	1.09	24
03/08/14	24	0.472	30	0.109	24	0.125	30	93.44	30	1.04	24
03/09/14	24	0.473	30	0.135	24	0.126	30	93.37	30	1.23	24
03/10/14	24	0.472	30	0.123	24	0.127	30	93.33	30	1.09	24
03/11/14	24	0.471	30	0.127	24	0.128	30	93.24	30	1.11	24
03/12/14	24	0.471	30	0.144	24	0.128	30	93.21	30	1.17	24
03/13/14	24	0.470	30	0.165	24	0.130	30	93.12	30	1.44	24
03/14/14	24	0.469	30	0.157	24	0.132	30	93.03	30	1.17	24
03/15/14	24	0.469	30	0.164	24	0.133	30	92.93	30	1.58	24
03/16/14	24	0.470	30	0.140	24	0.133	30	92.94	30	1.35	24
03/17/14	24	0.471	30	0.103	24	0.131	30	93.02	30	0.99	24
03/18/14	24	0.471	30	0.080	24	0.130	30	93.05	30	0.75	24
03/19/14	24	0.471	30	0.104	24	0.129	30	93.11	30	0.93	24

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	Blr 1&2 SO2 Tons	Vld
03/20/14	24	0.470	30	0.118	24	0.130	30	93.11	30	1.20	24
03/21/14	24	0.470	30	0.142	24	0.132	30	93.03	30	1.49	24
03/22/14	24	0.470	30	0.153	24	0.131	30	93.06	30	1.45	24
03/23/14	24	0.471	30	0.133	24	0.131	30	93.09	30	1.50	24
03/24/14	24	0.471	30	0.142	24	0.133	30	93.04	30	1.32	24
03/25/14	24	0.470	30	0.182	24	0.135	30	92.98	30	1.60	24
03/26/14	24	0.470	30	0.149	24	0.134	30	93.05	30	1.37	24
03/27/14	24	0.469	30	0.142	24	0.135	30	93.02	30	1.48	24
03/28/14	24	0.468	30	0.128	24	0.136	30	92.98	30	1.30	24
03/29/14	24	0.466	30	0.128	24	0.134	30	93.06	30	1.44	24
03/30/14	24	0.463	30	0.154	24	0.134	30	93.08	30	1.67	24
03/31/14	24	0.462	30	0.129	24	0.133	30	93.14	30	1.41	24

CEMS Daily Averages - 01/01/14 To 03/31/14

Facility Name: T.E.S. Filer City Station **Location:** Filer City, MI **Source:** Boiler 2

Period: 01/01/14 00:00:00 To 03/31/14 23:59:59; Records = 90

	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day		24-Hr		30-Day		30-Day		
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
01/01/14	24	0.459	30	0.176	24	0.162	30	93.25	30	0.00
01/02/14	24	0.460	30	0.174	24	0.160	30	93.31	30	0.00
01/03/14	24	0.461	30	0.169	24	0.160	30	93.31	30	0.00
01/04/14	24	0.461	30	0.111	24	0.158	30	93.42	30	0.00
01/05/14	24	0.460	30	0.090	24	0.154	30	93.57	30	0.00
01/06/14	24	0.462	30	0.118	24	0.151	30	93.67	30	0.00
01/07/14	24	0.462	30	0.194	24	0.151	30	93.67	30	0.00
01/08/14	24	0.463	30	0.159	24	0.150	30	93.70	30	0.00
01/09/14	24	0.463	30	0.099	24	0.149	30	93.76	30	0.00
01/10/14	24	0.462	30	0.202	24	0.151	30	93.66	30	0.00
01/11/14	24	0.460	30	0.080	24	0.151	30	93.66	30	0.00
01/12/14	24	0.457	30	0.118	24	0.151	30	93.65	30	0.00
01/13/14	24	0.455	30	0.154	24	0.151	30	93.66	30	0.00
01/14/14	24	0.453	30	0.103	24	0.149	30	93.73	30	0.00
01/15/14	24	0.453	30	0.239	24	0.152	30	93.59	30	0.00
01/16/14	24	0.452	30	0.138	24	0.152	30	93.59	30	0.00
01/17/14	24	0.451	30	0.159	24	0.152	30	93.59	30	0.00
01/18/14	24	0.451	30	0.182	24	0.153	30	93.53	30	0.00
01/19/14	24	0.450	30	0.231	24	0.154	30	93.49	30	0.00
01/20/14	24	0.450	30	0.173	24	0.155	30	93.44	30	0.00
01/21/14	24	0.451	30	0.157	24	0.155	30	93.46	30	0.00
01/22/14	24	0.450	30	0.156	24	0.152	30	93.58	30	0.00
01/23/14	24	0.451	30	0.080	24	0.150	30	93.65	30	0.00
01/24/14	24	0.453	30	0.095	24	0.148	30	93.72	30	0.00
01/25/14	24	0.456	30	0.083	24	0.145	30	93.77	30	0.00
01/26/14	24	0.460	30	0.083	24	0.144	30	93.72	30	0.00
01/27/14	24	0.465	30	0.116	24	0.142	30	93.73	30	0.00
01/28/14	24	0.468	30	0.139	24	0.144	30	93.60	30	0.00
01/29/14	24	0.469	30	0.151	24	0.143	30	93.56	30	0.00
01/30/14	24	0.469	30	0.113	24	0.141	30	93.55	30	0.00
01/31/14	24	0.469	30	0.126	24	0.140	30	93.55	30	0.00
02/01/14	24	0.469	30	0.118	24	0.138	30	93.57	30	0.00
02/02/14	24	0.469	30	0.160	24	0.138	30	93.52	30	0.00
02/03/14	24	0.471	30	0.146	24	0.139	30	93.41	30	0.00
02/04/14	24	0.471	30	0.122	24	0.140	30	93.32	30	0.00
02/05/14	24	0.469	30	0.117	24	0.140	30	93.28	30	0.00
02/06/14	24	0.468	30	0.097	24	0.137	30	93.37	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
02/07/14	24	0.469	30	0.089	24	0.134	30	93.43	30	0.00
02/08/14	24	0.470	30	0.097	24	0.134	30	93.38	30	0.00
02/09/14	24	0.472	30	0.086	24	0.130	30	93.50	30	0.00
02/10/14	24	0.476	30	0.081	24	0.130	30	93.46	30	0.00
02/11/14	24	0.479	30	0.095	24	0.129	30	93.45	30	0.00
02/12/14	24	0.482	30	0.093	24	0.127	30	93.50	30	0.00
02/13/14	24	0.485	30	0.086	24	0.127	30	93.50	30	0.00
02/14/14	24	0.485	30	0.113	24	0.123	30	93.63	30	0.00
02/15/14	24	0.488	30	0.138	24	0.123	30	93.60	30	0.00
02/16/14	24	0.491	30	0.094	24	0.120	30	93.66	30	0.00
02/17/14	24	0.493	30	0.082	24	0.117	30	93.77	30	0.00
02/18/14	24	0.495	30	0.070	24	0.112	30	93.96	30	0.00
02/19/14	24	0.495	30	0.044	24	0.107	30	94.13	30	0.00
02/20/14	24	0.494	30	0.098	24	0.105	30	94.18	30	0.00
02/21/14	24	0.492	30	0.114	24	0.104	30	94.22	30	0.00
02/22/14	24	0.491	30	0.115	24	0.105	30	94.12	30	0.00
02/23/14	24	0.490	30	0.146	24	0.107	30	94.01	30	0.00
02/24/14	24	0.488	30	0.163	24	0.110	30	93.93	30	0.00
02/25/14	24	0.486	30	0.110	24	0.111	30	93.95	30	0.00
02/26/14	24	0.484	30	0.131	24	0.111	30	93.96	30	0.00
02/27/14	24	0.484	30	0.219	24	0.114	30	93.86	30	0.00
02/28/14	24	0.485	30	0.177	24	0.115	30	93.86	30	0.00
03/01/14	24	0.485	30	0.165	24	0.116	30	93.82	30	0.00
03/02/14	24	0.486	30	0.147	24	0.117	30	93.81	30	0.00
03/03/14	24	0.486	30	0.144	24	0.118	30	93.78	30	0.00
03/04/14	24	0.486	30	0.152	24	0.118	30	93.81	30	0.00
03/05/14	24	0.485	30	0.132	24	0.117	30	93.86	30	0.00
03/06/14	24	0.485	30	0.098	24	0.116	30	93.91	30	0.00
03/07/14	24	0.484	30	0.109	24	0.116	30	93.91	30	0.00
03/08/14	24	0.484	30	0.101	24	0.116	30	93.88	30	0.00
03/09/14	24	0.482	30	0.115	24	0.117	30	93.80	30	0.00
03/10/14	24	0.479	30	0.102	24	0.117	30	93.80	30	0.00
03/11/14	24	0.476	30	0.100	24	0.118	30	93.78	30	0.00
03/12/14	24	0.474	30	0.095	24	0.118	30	93.75	30	0.00
03/13/14	24	0.473	30	0.130	24	0.119	30	93.69	30	0.00
03/14/14	24	0.470	30	0.087	24	0.119	30	93.69	30	0.00
03/15/14	24	0.470	30	0.159	24	0.122	30	93.55	30	0.00
03/16/14	24	0.471	30	0.133	24	0.122	30	93.52	30	0.00
03/17/14	24	0.471	30	0.099	24	0.121	30	93.58	30	0.00
03/18/14	24	0.470	30	0.074	24	0.120	30	93.60	30	0.00
03/19/14	24	0.468	30	0.089	24	0.121	30	93.58	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
03/20/14	24	0.467	30	0.128	24	0.122	30	93.48	30	0.00
03/21/14	24	0.467	30	0.161	24	0.126	30	93.29	30	0.00
03/22/14	24	0.468	30	0.142	24	0.128	30	93.23	30	0.00
03/23/14	24	0.470	30	0.168	24	0.130	30	93.16	30	0.00
03/24/14	24	0.471	30	0.123	24	0.130	30	93.18	30	0.00
03/25/14	24	0.471	30	0.140	24	0.130	30	93.23	30	0.00
03/26/14	24	0.470	30	0.129	24	0.129	30	93.31	30	0.00
03/27/14	24	0.467	30	0.159	24	0.130	30	93.24	30	0.00
03/28/14	24	0.463	30	0.131	24	0.130	30	93.26	30	0.00
03/29/14	24	0.460	30	0.155	24	0.128	30	93.36	30	0.00
03/30/14	24	0.457	30	0.177	24	0.128	30	93.36	30	0.00
03/31/14	24	0.453	30	0.152	24	0.128	30	93.38	30	0.00

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1Opacity

EmissionLimitation: 10

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 21600 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	7	0.03
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.03

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	3	0.01
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	3	0.01

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	2	0.09
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	3	0.14

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: BoilersTotalSO2Tons

EmissionLimitation: 6.45

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boilers

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.09
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	2	0.09

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	3	0.14
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	3	0.14

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ReportPrintedon:04/14/1415:41:02

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2Opacity

EmissionLimitation: 10

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 21600 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	7	0.03
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.03

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	6	0.03
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	6	0.03

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From1/01/2014To3/31/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2160 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	4-30-14
NAME	SIGNATURE	TITLE	DATE

ReportPrintedon:04/14/1415:51:30

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/19/14 13:48:34	02/19/14 14:29:46	7	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 7 Periods , Data Availability for this Reporting Period = 99.97 %

Total Operating Time in the Reporting Period = 21600 Periods

Report Printed on: 04/14/14 15:41:05

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	01/17/14 09:00:39	01/17/14 10:59:36	2	21=Blowback	3=Quality Assurance Calibrations	Calibrate #1 and #2 stacks

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	01/17/14 08:00:36	01/17/14 10:59:36	3	98=Automatic Calibration	3=Quality Assurance Calibrations	System Check, re-calibration

Total Downtime in the Reporting Period = 3 hours , Data Availability for this Reporting Period = 99.86 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/19/14 10:00:41	02/19/14 10:59:41	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals
2	02/20/14 06:00:32	02/20/14 07:59:34	2	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed filter

Total Downtime in the Reporting Period = 3 hours , Data Availability for this Reporting Period = 99.86 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/19/14 10:00:41	02/19/14 10:59:41	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals
2	02/20/14 05:00:35	02/20/14 07:59:34	3	11=Excess Drift Primary Analyzer	1=Monitor Equip Malfunctions	Changed filter, re-calibration

Total Downtime in the Reporting Period = 4 hours , Data Availability for this Reporting Period = 99.81 %

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	02/19/14 14:30:37	02/19/14 15:11:35	7	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 7 Periods , Data Availability for this Reporting Period = 99.97 %

Total Operating Time in the Reporting Period = 21600 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 01/01/14 to 03/31/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	01/21/14 11:12:36	01/21/14 11:17:36	1	11	Control Equip Problems	Atomizer Maintenance, Hi-temp bypass	Restored scrubber/baghouse operation
2	02/18/14 04:24:32	02/18/14 04:29:32	1	37	Control Equip Problems	Atomizer Maintenance, Hi-pressure	Restored scrubber/baghouse operation
3	03/11/14 01:54:46	03/11/14 01:59:46	1	16	Control Equip Problems	Recycled lime flow lost, Hi-pressure	restored recycle flow, restored

Total Duration in the Reporting Period = 3 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 21600 Periods

Report Printed on: 04/14/14 15:41:18

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:41:19

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0.7

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:41:20

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:41:22

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:41:25

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	01/13/14 09:18:34	01/13/14 09:29:33	2	46	49	Control Equip Problems	Atomizer Maintenance, Hi-temp bypass	Restored scrubber/baghouse operation
2	01/21/14 05:36:41	01/21/14 05:41:41	1	47	47	Control Equip Problems	Atomizer Maintenance, Hi-temp bypass	Restored Scrubber/baghouse operation
3	01/28/14 10:42:43	01/28/14 10:47:43	1	34	34	Control Equip Problems	Atomizer Maintenance, Hi-temp bypass	Restored Scrubber/Baghouse operation
4	01/28/14 10:54:38	01/28/14 10:59:38	1	13	13	Control Equip Problems	Atomizer Maintenance, Hi-temp bypass	Restored Scrubber/Baghouse operation
5	01/31/14 04:42:36	01/31/14 04:47:36	1	11	11	Control Equip Problems	Atomizer Maintenance, Hi-pressure bypass	Restored Scrubber/Baghouse operation

Total Duration in the Reporting Period = 6 Periods , Percentage of Operating Time above Excess Emission Limit = 0.03 %

Total Operating Time in the Reporting Period = 21600 Periods

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:51:49

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0.7

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:51:51

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:51:58

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 01/01/14 to 03/31/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2160 hours

Report Printed on: 04/14/14 15:52:01

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i Serial Number: 0623017966

Low-Level Calibration Gas (20-30% of Span) (100.00 ppm - 150.00 ppm)	Concentration: 124.10 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (250.00 ppm - 300.00 ppm)	Concentration: 275.00 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (400.00 ppm - 500.00 ppm)	Concentration: 418.80 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:08:42	125.00	14:13:34	274.00	14:18:41	412.20
Run 2	14:38:38	125.20	14:43:42	273.70	14:48:49	412.20
Run 3	15:08:33	125.20	15:13:36	273.90	15:18:35	412.50
Avg. Monitor Response		125.133		273.867		412.300
Linearity Error		0.9		0.4		1.6
Absolute Difference		1.1		1.1		6.5
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717877

Low-Level Calibration Gas (20-30% of Span) (400.00 ppm - 600.00 ppm)	Concentration: 502.30 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration: 1099.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (1600.0 ppm - 2000.0 ppm)	Concentration: 1698.0 Cylinder No.: CC234428 Expiration Date: 01/17/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	15:38:37	504.80	15:43:42	1100.0	15:48:43	1684.4
Run 2	16:08:43	507.20	16:13:43	1101.4	16:18:47	1685.8
Run 3	16:38:38	510.00	16:43:43	1105.4	16:48:45	1685.0
Avg. Monitor Response		507.333		1102.27		1685.07
Linearity Error		1.0		0.3		0.8
Absolute Difference		5.0		3.3		12.9
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717877

Low-Level Calibration Gas (20-30% of Span) (40.000 ppm - 60.000 ppm)	Concentration: 49.390 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (100.00 ppm - 120.00 ppm)	Concentration: 108.40 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (160.00 ppm - 200.00 ppm)	Concentration: 171.30 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:08:42	49.700	14:13:34	107.90	14:18:41	166.50
Run 2	14:38:38	50.100	14:43:42	107.40	14:48:49	166.10
Run 3	15:08:33	49.500	15:13:36	107.20	15:18:35	167.40
Avg. Monitor Response		49.767		107.500		166.667
Linearity Error		0.8		0.7		2.7
Absolute Difference		0.4		0.8		4.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS} \mid \text{Cal. Gas Concentration - Avg. Monitor Response} \mid}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i Serial Number: 0622717887

Low-Level Calibration Gas (20-30% of Span) (600.0 ppm - 900.0 ppm)	Concentration: 742.4 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1500.0 ppm - 1800.0 ppm)	Concentration: 1639.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (2400.0 ppm - 3000.0 ppm)	Concentration: 2658.0 Cylinder No.: CC234428 Expiration Date: 01/17/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	15:38:37	738.3	15:43:42	1636.2	15:48:43	2646.6
Run 2	16:08:43	741.0	16:13:43	1637.4	16:18:47	2644.8
Run 3	16:38:38	741.0	16:43:43	1634.4	16:48:45	2648.4
Avg. Monitor Response		740.100		1636.00		2646.60
Linearity Error		0.3		0.2		0.4
Absolute Difference		2.3		3.0		11.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

TESFiler0002824

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I Serial Number: 0622717887

Low-Level Calibration Gas (20-30% of Span) (60.0 ppm - 90.0 ppm)	Concentration: 74.5 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,NO2,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (150.0 ppm - 180.0 ppm)	Concentration: 164.0 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (240.0 ppm - 300.0 ppm)	Concentration: 255.1 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,NO2,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:08:42	74.1	14:13:34	163.4	14:18:41	251.6
Run 2	14:38:38	74.8	14:43:42	163.7	14:48:49	249.6
Run 3	15:08:33	75.8	15:13:36	163.2	15:18:35	250.9
Avg. Monitor Response		74.900		163.433		250.700
Linearity Error		0.5		0.3		1.7
Absolute Difference		0.4		0.6		4.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i Serial Number: 0622717869

Low-Level Calibration Gas (20-30% of Span) (4.000 % - 6.000 %)	Concentration: 5.549 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (10.000 % - 12.000 %)	Concentration: 11.020 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (16.000 % - 20.000 %)	Concentration: 17.100 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:08:42	5.550	14:13:34	11.010	14:18:41	17.050
Run 2	14:38:38	5.570	14:43:42	11.010	14:48:49	17.060
Run 3	15:08:33	5.570	15:13:36	11.020	15:18:35	17.040
Avg. Monitor Response		5.563		11.013		17.050
Linearity Error		0.2		0.1		0.3
Absolute Difference		0.0		0.0		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

CGA Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717879

Low-Level Calibration Gas (20-30% of Span) (400.0 ppm - 600.0 ppm)
Concentration: 502.3
Cylinder No.: CC39257
Expiration Date: 11/16/19

Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)
Concentration: 1099.0
Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:23:40	507.6	14:29:45	1097.8
Run 2	14:53:40	507.6	14:59:41	1095.0
Run 3	15:23:42	509.0	15:29:41	1099.0
Avg. Monitor Response		508.1		1097.3
Calibration Error		1.200		-0.200
Absolute Difference		5.8		1.7
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

TESFiler0002827

CGA Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i Serial Number: 0622717873

Low-Level Calibration Gas (5.00% - 8.00%)
Concentration: 5.55
Cylinder No.: CC39257
Expiration Date: 11/16/19

Mid-Level Calibration Gas (10.00% - 14.00%)
Concentration: 11.05
Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:23:40	5.54	14:29:45	10.90
Run 2	14:53:40	5.52	14:59:41	10.91
Run 3	15:23:42	5.51	15:29:41	10.92
Avg. Monitor Response		5.52		10.91
Calibration Error		-0.500		-1.300
Absolute Difference		0.03		0.14
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i Serial Number: 0623017967

Low-Level Calibration Gas (20-30% of Span) (100.00 ppm - 150.00 ppm)	Concentration: 124.10 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (250.00 ppm - 300.00 ppm)	Concentration: 275.00 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (400.00 ppm - 500.00 ppm)	Concentration: 418.80 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:44:34	128.00	09:49:34	279.20	09:54:33	420.30
Run 2	10:08:36	127.50	10:13:38	276.90	10:18:37	416.00
Run 3	10:38:40	128.00	10:43:44	277.80	10:48:49	416.30
Avg. Monitor Response		127.833		277.967		417.533
Linearity Error		3.1		1.1		0.3
Absolute Difference		3.8		3.0		1.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717880

Low-Level Calibration Gas (20-30% of Span) (400.00 ppm - 600.00 ppm)	Concentration: 502.30 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN		
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration: 1099.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN		
High-Level Calibration Gas (80-100% of Span) (1600.0 ppm - 2000.0 ppm)	Concentration: 1698.0 Cylinder No.: CC234428 Expiration Date: 01/17/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN		

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:10:37	502.00	11:15:42	1102.6	11:20:40	1672.4
Run 2	11:38:39	507.00	11:43:43	1101.0	11:48:41	1671.8
Run 3	12:08:37	503.20	12:13:35	1094.8	12:18:42	1671.2
Avg. Monitor Response		504.067		1099.47		1671.80
Linearity Error		0.4		0.0		1.5
Absolute Difference		1.8		0.5		26.2
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

TESFiler0002830

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717880

Low-Level Calibration Gas (20-30% of Span) (40.000 ppm - 60.000 ppm)	Concentration: 49.390 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (100.00 ppm - 120.00 ppm)	Concentration: 108.40 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (160.00 ppm - 200.00 ppm)	Concentration: 171.30 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanninf

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:44:34	49.700	09:49:34	105.80	09:54:33	166.90
Run 2	10:08:36	49.700	10:13:38	107.00	10:18:37	166.80
Run 3	10:38:40	50.500	10:43:44	107.30	10:48:49	166.40
Avg. Monitor Response		49.967		106.700		166.700
Linearity Error		1.1		1.5		2.7
Absolute Difference		0.6		1.6		4.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i

Serial Number: 0622717888

Low-Level Calibration Gas (20-30% of Span) (600.0 ppm - 900.0 ppm)	Concentration: 742.4 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1500.0 ppm - 1800.0 ppm)	Concentration: 1639.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (2400.0 ppm - 3000.0 ppm)	Concentration: 2658.0 Cylinder No.: CC234428 Expiration Date: 01/17/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:10:37	744.0	11:15:42	1639.5	11:20:40	2652.9
Run 2	11:38:39	743.1	11:43:43	1641.0	11:48:41	2657.4
Run 3	12:08:37	744.0	12:13:35	1641.9	12:18:42	2655.6
Avg. Monitor Response		743.700		1640.80		2655.30
Linearity Error		0.2		0.1		0.1
Absolute Difference		1.3		1.8		2.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717888

Low-Level Calibration Gas (20-30% of Span) (60.0 ppm - 90.0 ppm)	Concentration: 74.5 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN
Mid-Level Calibration Gas (50-60% of Span) (150.0 ppm - 180.0 ppm)	Concentration: 164.0 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,NO2,SO2,BALN
High-Level Calibration Gas (80-100% of Span) (240.0 ppm - 300.0 ppm)	Concentration: 255.1 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,NO2,SO2,BALN

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:44:34	70.5	09:49:34	161.4	09:54:33	256.1
Run 2	10:08:36	70.8	10:13:38	160.1	10:18:37	249.4
Run 3	10:38:40	70.1	10:43:44	159.0	10:48:49	254.6
Avg. Monitor Response		70.467		160.167		253.367
Linearity Error		5.4		2.3		0.7
Absolute Difference		4.0		3.8		1.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i Serial Number: 0622717874

Low-Level Calibration Gas (20-30% of Span) (4.000 % - 6.000 %)	Concentration: 5.549 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (10.000 % - 12.000 %)	Concentration: 11.020 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (16.000 % - 20.000 %)	Concentration: 17.100 Cylinder No.: SG9148203BAL Expiration Date: 11/25/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	09:44:34	5.550	09:49:34	11.080	09:54:33	17.100
Run 2	10:08:36	5.560	10:13:38	11.070	10:18:37	17.110
Run 3	10:38:40	5.570	10:43:44	11.070	10:48:49	17.110
Avg. Monitor Response		5.560		11.073		17.107
Linearity Error		0.2		0.5		0.0
Absolute Difference		0.0		0.1		0.0
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

CGA Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i

Serial Number: 0622717883

Low-Level Calibration Gas (20-30% of Span) (400.0 ppm - 600.0 ppm)	Concentration: 502.3 Cylinder No.: CC39257 Expiration Date: 11/16/19
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration: 1099.0 Cylinder No.: CC151205 Expiration Date: 11/16/14

Test Date: 02/20/14

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	10:23:38	504.6	10:29:44	1098.6
Run 2	10:44:42	505.8	10:50:47	1095.2
Run 3	11:09:39	502.4	11:15:42	1092.8
Avg. Monitor Response		504.3		1095.5
Calibration Error		0.400		-0.300
Absolute Difference		2.0		3.5
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: [signature]

Print Name: Josh Schubert

Technician/Service Representative

TESFiler0002835

Report Printed on: 04/28/14 09:32:54

CGA Test Report - 2014Q1

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i Serial Number: 0622717875

Low-Level Calibration Gas (5.00% - 8.00%)
Concentration: 5.55
Cylinder No.: CC39257
Expiration Date: 11/16/19

Mid-Level Calibration Gas (10.00% - 14.00%)
Concentration: 11.05
Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 02/20/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	10:23:38	5.58	10:29:44	11.05
Run 2	10:44:42	5.59	10:50:47	11.06
Run 3	11:09:39	5.58	11:15:42	11.06
Avg. Monitor Response		5.58		11.06
Calibration Error		0.500		0.100
Absolute Difference		0.03		0.01
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E05NI94E15A0008	Reference Number:	32-400026874-1
Cylinder Number:	CC27079	Cylinder Volume:	147.2 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2015

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	50.00 PPM	49.39 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
NITRIC OXIDE	125.0 PPM	124.1 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				
Total oxides of nitrogen		62.05 PPM		For Reference Only	

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060215	CC281048	49.67 PPM SULFUR DIOXIDE/NITROGEN		May 13, 2017
NTRM	09060503	CC280417	98.88 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Feb 01, 2013
NTRM	11060139	CC332059	248.4 PPM NITRIC OXIDE/NITROGEN		Jan 11, 2017
NTRM	9060606	CC413681	16.939 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	FTIR	Nov 11, 2011
E/N 54, LSO2, Nicolet 6700	FTIR	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0002837

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E05NI88E15A0016	Reference Number:	32-400026873-1
Cylinder Number:	CC214741	Cylinder Volume:	150.5 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2019

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	110.0 PPM	108.4 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				
Total oxides of nitrogen		137.5 PPM		For Reference Only	

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	08061635	CC66837	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 15, 2012
NTRM	08061635	CC255794	247.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.87	Oct 15, 2012
NTRM	08060311	CC254643	250.0 PPM CARBON MONOXIDE/NITROGEN		May 15, 2012
NTRM	10060421	CC268177	495.6 PPM NITRIC OXIDE/NITROGEN		Feb 01, 2016
NTRM	9060606	CC413681	16.939 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, MNO, Nicolet 6700	FTIR	Nov 11, 2011
E/N 54, HSO2, Nicolet 6700	FTIR	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0002838

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E04NI94E15A0013	Reference Number:	32-400026870-1
Cylinder Number:	CC39257	Cylinder Volume:	147.3 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2019

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	500.0 PPM	502.3 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	750.0 PPM	742.4 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.555 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	09061013	CC300405	479.5 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.6%	May 15, 2015
NTRM	09060421	CC286588	501.3 PPM CARBON MONOXIDE/NITROGEN		Feb 01, 2013
NTRM	9060606	CC262087	9.921 % CARBON DIOXIDE/NITROGEN		Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 11% CO2, Nicolet 6700	OBSOLETE	Oct 28, 2011
E/N 173, 5000 ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	OBSOLETE	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

TESFiler0002839

Airgas

In Service 5-23-12

Airgas Great Lakes
2009 Bellaire Ave.
Royal Oak, MI 48067-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E04NI88E15A1FJ0	Reference Number:	32-400026871-1
Cylinder Number:	CC151205	Cylinder Volume:	151 Cu.Ft.
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
		Analysis Date:	Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig i.e. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239950	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	9060606	CC262087	8.921% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020502	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 16, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR).	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4800ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

TESFiler0002840

In service 2-13-14 Out of service 3-5-14

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E04NI82E15A3LD7	Reference Number:	32-400303386-1
Cylinder Number:	CC234428	Cylinder Volume:	154.8 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Jan 17, 2014

Expiration Date: Jan 17, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1700 PPM	1698 PPM	G1	+/- 1.1% NIST Traceable	01/10/2014, 01/17/2014
CARBON MONOXIDE	2550 PPM	2658 PPM	G1	+/- 0.9% NIST Traceable	01/10/2014
CARBON DIOXIDE	17.00 %	17.02 %	G1	+/- 0.7% NIST Traceable	01/10/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	97040302	CC66762	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 05, 2017
NTRM	12060715	CC356042	2498 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Dec 21, 2017
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Jan 02, 2014
E/N 54 Nicolet 6700 HCO	FTIR	Jan 06, 2014
E/N 54, HSO2, Nicolet 6700	FTIR	Jan 09, 2014

Triad Data Available Upon Request

Notes:

Approved for Release

Airgas

In Service 1-24-14

Out of Service 3-3-14

Airgas USA, LLC
2009 BELLAIRE AVE
ROYAL OAK, MI 48067
(248) 399-8029
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E05NI82E15A0001	Reference Number:	32-400283237-1
Cylinder Number:	SG9148203BAL	Cylinder Volume:	154.6 Cubic Feet
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62013	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 25, 2013

Expiration Date: Nov 25, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	425.0 PPM	418.8 PPM	G1	+/- 0.6% NIST Traceable	11/18/2013, 11/25/2013
SULFUR DIOXIDE	170.0 PPM	171.3 PPM	G1	+/- 0.9% NIST Traceable	11/18/2013, 11/25/2013
CARBON MONOXIDE	255.0 PPM	255.1 PPM	G1	+/- 0.5% NIST Traceable	11/25/2013
NITRIC OXIDE	425.0 PPM	418.8 PPM	G1	+/- 0.6% NIST Traceable	11/18/2013, 11/25/2013
CARBON DIOXIDE	17.00 %	17.10 %	G1	+/- 0.9% NIST Traceable	11/18/2013
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060830	CC338657	241.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	May 13, 2017
PRM	12314	726635	50.0 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Mar 15, 2013
NTRM	12060312	CC353943	249.3 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Oct 26, 2017
PRM	12329	726612	25.02 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.5%	Oct 15, 2014
NTRM	12061043	CC359540	500.7 PPM NITRIC OXIDE/NITROGEN	+/-0.50%	Feb 16, 2018
GMIS	A124199110104	CC323259	15.05 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Nov 08, 2016
GMIS	124206889134	CC323702	4.666 PPM NITROGEN DIOXIDE/NITROGEN	+/-2.0%	May 05, 2016
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

The SRM or PRM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2013
E/N 173, 500ppmFS CO, Siemens Ultramat	Nondispersive Infrared (NDIR)	Oct 29, 2013
E/N 54 Nicolet 6700 MNO	FTIR	Nov 01, 2013

Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number:	1Z4503260373142462
Reference Number(s):	CC110655, H.REAH/BNC
Service:	UPS Ground
Weight:	1.00 lb
Shipped/Billed On:	04/30/2014
Delivered On:	05/01/2014 10:25 A.M.
Delivered To:	CADILLAC, MI, US
Left At:	Receiver

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 05/01/2014 11:18 A.M. ET

Print This Page Close Window

TESFiler0002843

Proof of Delivery

Close Window

Dear Customer,

This notice serves as proof of delivery for the shipment listed below.

Tracking Number:	1Z4503260374327476
Reference Number(s):	CC110655, H.REAH/BNC
Service:	UPS Ground
Weight:	1.00 lb
Shipped/Billed On:	04/30/2014
Delivered On:	05/01/2014 9:31 A.M.
Delivered To:	LANSING, MI, US
Signed By:	COLLINS
Left At:	Office

Thank you for giving us this opportunity to serve you.

Sincerely,

UPS

Tracking results provided by UPS: 05/01/2014 10:05 A.M. ET

Print This Page Close Window

TESFiler0002844

Consumers Energy

A CMS Energy Company

Environmental Services

July 30, 2014

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: SECOND QUARTER 2014 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the Second Quarter 2014 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 2nd quarter 2014, so this quarterly report does not contain any information on C/D waste wood shipments.

It should be noted that this quarterly report does not reflect any CO lb/mmBtu emission limit exceedances for Unit 1, and this contradicts earlier prompt excess emissions reporting. Specifically, the written excess emission report filed on April 16, 2014 indicated Unit 1 CO lb/mmBtu emission limit exceedances occurred on April 11 and 12, 2014. After further reviewing the emissions data, the earlier reported exceedances were due to inclusion of 04/09/2014, Hour 15:00 within the 24-hour rolling calculations, but this hour was actually associated with shutdown and should have been excluded from the calculations (the average steam pressure during the hour was 1,195 psig, and startup is defined as the lowering of steam pressure to below 1,200 psig through the end of the combustion process and shutdown of the Forced Draft Fan).

Lastly, another discrepancy between this quarterly report and the prompt excess emissions report discussed above is related to Unit 2 exceedances of the CO 24-hour rolling average emission limit of 115.2 lbs/hr; this report reflects 4 hours of such exceedances while the prompt report shows no such exceedances. When performing the manual calculations associated with the prompt excess emissions report, the 24-hour rolling averages were always based on 24 discrete hourly values. However, the CO lbs/hr CEMS data was missing on 04/08/2014, Hour 16:00 and 04/09/2014, Hour 07:00 and the calculations should have been based on the 22-23 hours of valid data for the 24-hour rolling time periods encompassing the preceding hours.

1945 W. Parnall Road •, Jackson, MI 49201 • Fax: 517 788 2329 • www.consumersenergy.com

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,

Jason Prentice

Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Karen Kajiya-Mills, MDEQ-AQD
Richard Brown, TES Filer City Station (Electronic Only)
Filer City Compliance File-Q, SA, A File

TESFiler0002846

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT 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 Permit (ROP) 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 specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 04/01/2014 To 06/30/2014

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 2nd Quarter of 2014 (April – June).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman	General Manager	231-723-6573
Name of Responsible Official (print or type)	Title	Phone Number

Henry M. Hoffman — 7-29-14

Signature of Responsible Official — Date

* Photocopy this form as needed.

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2014
Report Period Ending: March 31 ___ June 30 X Sept. 30 ___ Dec. 31 ___

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility: BOILER #1 X BOILER #2 X

5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
GEESI/FABRIC FILTER BAGHOUSES

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 7-30-14

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffman

(Date) 7-29-14

CEM\2nd QTR14
File: 001-008-020-1-5

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	N / A	N / A	N / A	N / A

[1] T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
8. Zero/Span Values														
ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM [1] L: 200 PPM [1]	H: 1,500 PPM [1] L: 200 PPM [1]	500 PPM	500 PPM	H: 3,000 PPM [2] L: 300 PPM [2]	H: 3,000 PPM [2] L: 300 PPM [2]	20.0 %	20.0 %	20.0 %	20.0 %

[1] The span values for the SO_2 Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

[2] The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/20/2013	10/31/2006 (Stk SO_2 = 09/25/08)	10/18/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2013	10/26/2006
	Boiler 2 Gas CEMS	08/21/2013	10/31/2006 (Stk SO_2 = 09/25/08)	10/23/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2013	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE
11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	X		
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	X		
3. Are the data representative of plant performance?	X		
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	X		
5. Was compliance with the standards achieved during the reporting period?		X	
Boiler #1			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour	X		
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	
Boiler #2			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour		X	
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	

T.E.S. FILER CITY STATION

V. EXCESS EMISSION REPORT - SO_2 AND NO_x

SO_2 EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO_2 EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
04/08/14	2	0.9	Boiler 2 was removed from service for a routine maintenance outage; during SU, the SO_2 dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.

SO_2 EVENTS (30 Day Rolling Average Limit of SO_2 Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

T.E.S. FILER CITY STATION

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

VI. QUALITY ASSURANCE DATA

1a. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 1

INLET CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

T.E.S. FILER CITY STATION

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests or Relative Accuracy Test Audits (RATAs). However, there was a short OOC period associated with excessive CD error for the Unit 1 inlet SO_2 and CO_2 CEMS.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

1b. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 2

INLET CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1b of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION
AIR EMISSION SUMMARY

APRIL 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	42594 /	42600	99.99%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%	686.0 /	686.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	42654 /	42660	99.99%	670.0 /	678.0	98.82%	678.0 /	678.0	100.00%	678.0 /	678.0	100.00%	678.0 /	678.0	100.00%
YTD			99.98%			99.72%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

MAY 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44634 /	44640	99.99%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.98%			99.78%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

JUNE 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.99%			100.00%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	43194 /	43200	99.99%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.98%			99.81%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

2nd QUARTER 2014

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	**42594 /**	**42600**	**99.99%**	**686.0 /**	**686.0**	**100.00%**	**686.0 /**	**686.0**	**100.00%**	**686.0 /**	**686.0**	**100.00%**	**686.0 /**	**686.0**	**100.00%**
MAY	**44634 /**	**44640**	**99.99%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**
JUN	**43200 /**	**43200**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**
2nd Quarter	**130428 /**	**130440**	**99.99%**	**2,150.0 /**	**2,150.0**	**100.00%**	**2,150.0 /**	**2,150.0**	**100.00%**	**2,150.0 /**	**2,150.0**	**100.00%**	**2,150.0 /**	**2,150.0**	**100.00%**
YTD			**99.99%**			**100.00%**			**100.00%**			**100.00%**			**100.00%**
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
APR	**42654 /**	**42660**	**99.99%**	**670.0 /**	**678.0**	**98.82%**	**678.0 /**	**678.0**	**100.00%**	**678.0 /**	**678.0**	**100.00%**	**678.0 /**	**678.0**	**100.00%**
MAY	**44640 /**	**44640**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**
JUN	**43194 /**	**43200**	**99.99%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**
2nd Quarter	**130488 /**	**130500**	**99.99%**	**2,134.0 /**	**2,142.0**	**99.63%**	**2,142.0 /**	**2,142.0**	**100.00%**	**2,142.0 /**	**2,142.0**	**100.00%**	**2,142.0 /**	**2,142.0**	**100.00%**
YTD			**99.98%**			**99.81%**			**100.00%**			**100.00%**			**100.00%**

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 04/01/14 To 06/30/14

Facility Name: T.E.S. Filer City Station **Location:** Filer City, MI **Source:** Boiler 1

Period: 04/01/14 00:00:00 To 06/30/14 23:59:59; **Records = 91**

	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
04/01/14	24	0.460	30	0.138	24	0.133	30	93.15	30	1.44	24
04/02/14	24	0.458	30	0.129	24	0.133	30	93.17	30	1.21	24
04/03/14	24	0.457	30	0.112	24	0.132	30	93.20	30	1.11	24
04/04/14	24	0.456	30	0.160	24	0.133	30	93.14	30	1.44	24
04/05/14	24	0.454	30	0.123	24	0.134	30	93.09	30	1.15	24
04/06/14	24	0.453	30	0.145	24	0.135	30	93.05	30	1.14	24
04/07/14	24	0.450	30	0.147	24	0.136	30	93.03	30	0.77	24
04/08/14	24	0.447	30	0.155	24	0.137	30	93.03	30	0.88	23
04/09/14	18	0.447	30	0.137	18	0.137	30	93.03	30	0.71	23
04/10/14	0	0.447	30	0.000	00	0.137	30	93.03	30	0.76	24
04/11/14	20	0.447	30	0.369	19	0.137	30	93.03	30	0.94	23
04/12/14	24	0.445	30	0.099	24	0.136	30	93.11	30	1.15	24
04/13/14	24	0.444	30	0.172	24	0.138	30	93.10	30	1.73	24
04/14/14	24	0.442	30	0.178	24	0.139	30	93.12	30	1.71	24
04/15/14	24	0.439	30	0.128	24	0.138	30	93.21	30	1.20	24
04/16/14	24	0.438	30	0.260	24	0.141	30	93.10	30	2.10	24
04/17/14	24	0.437	30	0.162	24	0.141	30	93.14	30	1.75	24
04/18/14	24	0.434	30	0.170	24	0.142	30	93.12	30	1.90	24
04/19/14	24	0.431	30	0.192	24	0.145	30	93.02	30	1.91	24
04/20/14	24	0.429	30	0.089	24	0.145	30	93.05	30	0.94	24
04/21/14	24	0.427	30	0.164	24	0.147	30	92.99	30	1.64	24
04/22/14	24	0.426	30	0.150	24	0.148	30	92.99	30	1.53	24
04/23/14	24	0.425	30	0.144	24	0.148	30	93.03	30	1.50	24
04/24/14	24	0.425	30	0.161	24	0.149	30	93.04	30	1.50	24
04/25/14	24	0.425	30	0.155	24	0.149	30	93.03	30	1.51	24
04/26/14	24	0.427	30	0.103	24	0.148	30	93.07	30	1.00	24
04/27/14	24	0.429	30	0.063	24	0.144	30	93.20	30	0.60	24
04/28/14	24	0.430	30	0.058	24	0.141	30	93.29	30	0.65	24
04/29/14	24	0.432	30	0.082	24	0.139	30	93.31	30	0.83	24
04/30/14	24	0.434	30	0.105	24	0.138	30	93.28	30	1.00	24
05/01/14	24	0.436	30	0.091	24	0.137	30	93.29	30	0.87	24
05/02/14	24	0.438	30	0.103	24	0.136	30	93.31	30	1.12	24
05/03/14	24	0.439	30	0.102	24	0.135	30	93.30	30	1.19	24
05/04/14	24	0.441	30	0.100	24	0.133	30	93.32	30	0.94	24
05/05/14	24	0.443	30	0.107	24	0.133	30	93.29	30	0.93	24
05/06/14	24	0.444	30	0.095	24	0.132	30	93.26	30	0.75	24
05/07/14	24	0.445	30	0.078	24	0.129	30	93.35	30	0.90	24

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	Blr 1&2 SO2 Tons	Vld
05/08/14	24	0.445	30	0.082	24	0.128	30	93.38	30	1.03	24
05/09/14	24	0.445	30	0.150	24	0.128	30	93.33	30	1.53	24
05/10/14	24	0.446	30	0.143	24	0.128	30	93.31	30	1.40	24
05/11/14	24	0.447	30	0.154	24	0.128	30	93.30	30	1.48	24
05/12/14	24	0.448	30	0.140	24	0.129	30	93.23	30	1.42	24
05/13/14	24	0.450	30	0.119	24	0.128	30	93.27	30	1.37	24
05/14/14	24	0.452	30	0.119	24	0.126	30	93.32	30	1.20	24
05/15/14	24	0.454	30	0.143	24	0.126	30	93.28	30	1.59	24
05/16/14	24	0.455	30	0.151	24	0.122	30	93.42	30	1.45	24
05/17/14	24	0.456	30	0.140	24	0.122	30	93.43	30	1.50	24
05/18/14	24	0.457	30	0.095	24	0.119	30	93.53	30	1.10	24
05/19/14	24	0.457	30	0.103	24	0.116	30	93.62	30	1.05	24
05/20/14	24	0.458	30	0.098	24	0.117	30	93.57	30	1.21	24
05/21/14	24	0.460	30	0.124	24	0.115	30	93.57	30	1.26	24
05/22/14	24	0.462	30	0.116	24	0.114	30	93.56	30	1.11	24
05/23/14	24	0.462	30	0.093	24	0.112	30	93.59	30	0.86	24
05/24/14	24	0.462	30	0.105	24	0.111	30	93.63	30	1.13	24
05/25/14	24	0.461	30	0.151	24	0.110	30	93.58	30	1.58	24
05/26/14	24	0.458	30	0.129	24	0.111	30	93.53	30	1.33	24
05/27/14	24	0.455	30	0.084	24	0.112	30	93.53	30	0.86	24
05/28/14	24	0.452	30	0.131	24	0.114	30	93.44	30	1.21	24
05/29/14	24	0.450	30	0.077	24	0.114	30	93.50	30	0.93	24
05/30/14	24	0.447	30	0.089	24	0.114	30	93.59	30	1.04	24
05/31/14	24	0.444	30	0.133	24	0.115	30	93.55	30	1.45	24
06/01/14	24	0.442	30	0.165	24	0.117	30	93.47	30	1.65	24
06/02/14	24	0.439	30	0.130	24	0.118	30	93.47	30	1.35	24
06/03/14	24	0.436	30	0.134	24	0.119	30	93.45	30	1.36	24
06/04/14	24	0.434	30	0.099	24	0.119	30	93.50	30	0.99	24
06/05/14	24	0.432	30	0.112	24	0.120	30	93.53	30	1.15	24
06/06/14	24	0.432	30	0.146	24	0.122	30	93.46	30	1.48	24
06/07/14	24	0.433	30	0.131	24	0.123	30	93.39	30	1.41	24
06/08/14	24	0.435	30	0.100	24	0.122	30	93.48	30	0.99	24
06/09/14	24	0.437	30	0.128	24	0.121	30	93.48	30	1.21	24
06/10/14	24	0.437	30	0.079	24	0.119	30	93.59	30	0.97	24
06/11/14	24	0.437	30	0.078	24	0.117	30	93.67	30	0.98	24
06/12/14	24	0.436	30	0.115	24	0.117	30	93.68	30	1.23	24
06/13/14	24	0.435	30	0.097	24	0.116	30	93.70	30	1.11	24
06/14/14	24	0.436	30	0.084	24	0.114	30	93.77	30	0.90	24
06/15/14	24	0.437	30	0.081	24	0.112	30	93.82	30	0.67	24
06/16/14	24	0.437	30	0.103	24	0.110	30	93.83	30	0.94	24
06/17/14	24	0.438	30	0.092	24	0.110	30	93.78	30	0.80	24

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	Blr 1&2 SO2 Tons	Vld
06/18/14	24	0.440	30	0.102	24	0.110	30	93.74	30	0.94	24
06/19/14	24	0.441	30	0.073	24	0.109	30	93.74	30	0.81	24
06/20/14	24	0.441	30	0.102	24	0.109	30	93.74	30	0.94	24
06/21/14	24	0.442	30	0.126	24	0.109	30	93.71	30	1.23	24
06/22/14	24	0.443	30	0.168	24	0.111	30	93.62	30	1.72	24
06/23/14	24	0.444	30	0.157	24	0.113	30	93.56	30	1.66	24
06/24/14	24	0.446	30	0.152	24	0.113	30	93.61	30	1.51	24
06/25/14	24	0.448	30	0.175	24	0.115	30	93.57	30	1.57	24
06/26/14	24	0.451	30	0.135	24	0.116	30	93.52	30	1.39	24
06/27/14	24	0.452	30	0.138	24	0.117	30	93.54	30	1.53	24
06/28/14	24	0.454	30	0.133	24	0.119	30	93.48	30	1.43	24
06/29/14	24	0.455	30	0.158	24	0.121	30	93.41	30	1.62	24
06/30/14	24	0.457	30	0.160	24	0.122	30	93.41	30	1.66	24

CEMS Daily Averages - 04/01/14 To 06/30/14

Facility Name: T.E.S. Filer City Station **Location:** Filer City, MI **Source:** Boiler 2

Period: 04/01/14 00:00:00 To 06/30/14 23:59:59; **Records = 91**

	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day		24-Hr		30-Day		30-Day		
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
04/01/14	24	0.450	30	0.152	24	0.128	30	93.37	30	0.00
04/02/14	24	0.447	30	0.108	24	0.127	30	93.44	30	0.00
04/03/14	24	0.446	30	0.108	24	0.125	30	93.50	30	0.00
04/04/14	24	0.444	30	0.129	24	0.125	30	93.49	30	0.00
04/05/14	24	0.443	30	0.105	24	0.125	30	93.48	30	0.00
04/06/14	24	0.441	30	0.078	24	0.124	30	93.55	30	0.00
04/07/14	1	0.441	30	0.000	01	0.124	30	93.55	30	0.00
04/08/14	8	0.441	30	0.860	07	0.124	30	93.55	30	0.00
04/09/14	21	0.441	30	0.119	20	0.124	30	93.55	30	0.00
04/10/14	24	0.438	30	0.151	24	0.126	30	93.52	30	0.00
04/11/14	24	0.436	30	0.134	24	0.127	30	93.55	30	0.00
04/12/14	24	0.435	30	0.129	24	0.128	30	93.53	30	0.00
04/13/14	24	0.434	30	0.174	24	0.130	30	93.46	30	0.00
04/14/14	24	0.433	30	0.162	24	0.132	30	93.40	30	0.00
04/15/14	24	0.431	30	0.106	24	0.132	30	93.47	30	0.00
04/16/14	24	0.431	30	0.153	24	0.134	30	93.39	30	0.00
04/17/14	24	0.429	30	0.191	24	0.135	30	93.38	30	0.00
04/18/14	24	0.426	30	0.211	24	0.138	30	93.30	30	0.00
04/19/14	24	0.423	30	0.191	24	0.141	30	93.20	30	0.00
04/20/14	24	0.421	30	0.101	24	0.141	30	93.20	30	0.00
04/21/14	24	0.419	30	0.166	24	0.144	30	93.12	30	0.00
04/22/14	24	0.419	30	0.158	24	0.145	30	93.13	30	0.00
04/23/14	24	0.418	30	0.157	24	0.145	30	93.18	30	0.00
04/24/14	24	0.417	30	0.139	24	0.145	30	93.19	30	0.00
04/25/14	24	0.415	30	0.153	24	0.144	30	93.22	30	0.00
04/26/14	24	0.415	30	0.100	24	0.144	30	93.23	30	0.00
04/27/14	24	0.416	30	0.061	24	0.141	30	93.30	30	0.00
04/28/14	24	0.416	30	0.077	24	0.139	30	93.31	30	0.00
04/29/14	24	0.418	30	0.091	24	0.137	30	93.34	30	0.00
04/30/14	24	0.419	30	0.103	24	0.136	30	93.30	30	0.00
05/01/14	24	0.419	30	0.090	24	0.134	30	93.35	30	0.00
05/02/14	24	0.419	30	0.128	24	0.132	30	93.34	30	0.00
05/03/14	24	0.419	30	0.144	24	0.132	30	93.27	30	0.00
05/04/14	24	0.420	30	0.091	24	0.130	30	93.32	30	0.00
05/05/14	24	0.420	30	0.083	24	0.129	30	93.31	30	0.00
05/06/14	24	0.421	30	0.056	24	0.127	30	93.37	30	0.00
05/07/14	24	0.420	30	0.105	24	0.127	30	93.39	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
05/08/14	24	0.419	30	0.126	24	0.127	30	93.33	30	0.00
05/09/14	24	0.419	30	0.164	24	0.130	30	93.15	30	0.00
05/10/14	24	0.420	30	0.144	24	0.130	30	93.12	30	0.00
05/11/14	24	0.420	30	0.149	24	0.130	30	93.06	30	0.00
05/12/14	24	0.419	30	0.147	24	0.131	30	93.00	30	0.00
05/13/14	24	0.419	30	0.155	24	0.130	30	92.98	30	0.00
05/14/14	24	0.418	30	0.119	24	0.129	30	93.01	30	0.00
05/15/14	24	0.419	30	0.177	24	0.131	30	92.88	30	0.00
05/16/14	24	0.419	30	0.141	24	0.131	30	92.89	30	0.00
05/17/14	24	0.419	30	0.163	24	0.130	30	92.93	30	0.00
05/18/14	24	0.419	30	0.128	24	0.127	30	93.04	30	0.00
05/19/14	24	0.418	30	0.109	24	0.124	30	93.14	30	0.00
05/20/14	24	0.418	30	0.148	24	0.126	30	93.02	30	0.00
05/21/14	24	0.418	30	0.138	24	0.125	30	93.02	30	0.00
05/22/14	24	0.418	30	0.108	24	0.123	30	93.06	30	0.00
05/23/14	24	0.417	30	0.081	24	0.121	30	93.14	30	0.00
05/24/14	24	0.417	30	0.122	24	0.120	30	93.14	30	0.00
05/25/14	24	0.417	30	0.168	24	0.120	30	93.07	30	0.00
05/26/14	24	0.415	30	0.139	24	0.122	30	93.00	30	0.00
05/27/14	24	0.411	30	0.091	24	0.123	30	92.99	30	0.00
05/28/14	24	0.409	30	0.115	24	0.124	30	92.99	30	0.00
05/29/14	24	0.408	30	0.112	24	0.125	30	93.03	30	0.00
05/30/14	24	0.406	30	0.122	24	0.125	30	93.06	30	0.00
05/31/14	24	0.404	30	0.161	24	0.128	30	92.98	30	0.00
06/01/14	24	0.403	30	0.171	24	0.129	30	92.97	30	0.00
06/02/14	24	0.401	30	0.145	24	0.129	30	93.05	30	0.00
06/03/14	24	0.400	30	0.142	24	0.131	30	93.01	30	0.00
06/04/14	24	0.400	30	0.100	24	0.131	30	93.02	30	0.00
06/05/14	24	0.399	30	0.121	24	0.134	30	92.94	30	0.00
06/06/14	24	0.400	30	0.154	24	0.135	30	92.86	30	0.00
06/07/14	24	0.401	30	0.156	24	0.136	30	92.82	30	0.00
06/08/14	24	0.403	30	0.099	24	0.134	30	92.94	30	0.00
06/09/14	24	0.405	30	0.112	24	0.133	30	92.97	30	0.00
06/10/14	24	0.407	30	0.114	24	0.132	30	93.03	30	0.00
06/11/14	24	0.408	30	0.118	24	0.131	30	93.07	30	0.00
06/12/14	24	0.409	30	0.138	24	0.130	30	93.10	30	0.00
06/13/14	24	0.411	30	0.130	24	0.131	30	93.07	30	0.00
06/14/14	24	0.413	30	0.100	24	0.128	30	93.15	30	0.00
06/15/14	24	0.413	30	0.056	24	0.125	30	93.24	30	0.00
06/16/14	24	0.414	30	0.089	24	0.123	30	93.30	30	0.00
06/17/14	24	0.414	30	0.074	24	0.121	30	93.33	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
06/18/14	24	0.415	30	0.090	24	0.120	30	93.31	30	0.00
06/19/14	24	0.417	30	0.091	24	0.119	30	93.36	30	0.00
06/20/14	24	0.419	30	0.090	24	0.117	30	93.38	30	0.00
06/21/14	24	0.420	30	0.128	24	0.118	30	93.32	30	0.00
06/22/14	24	0.420	30	0.189	24	0.121	30	93.15	30	0.00
06/23/14	24	0.421	30	0.183	24	0.123	30	93.07	30	0.00
06/24/14	24	0.421	30	0.158	24	0.123	30	93.12	30	0.00
06/25/14	24	0.424	30	0.149	24	0.123	30	93.15	30	0.00
06/26/14	24	0.425	30	0.147	24	0.125	30	93.07	30	0.00
06/27/14	24	0.425	30	0.175	24	0.127	30	92.99	30	0.00
06/28/14	24	0.426	30	0.160	24	0.129	30	92.95	30	0.00
06/29/14	24	0.426	30	0.174	24	0.130	30	92.91	30	0.00
06/30/14	24	0.427	30	0.184	24	0.131	30	92.93	30	0.00

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1Opacity

EmissionLimitation: 10

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 21740 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	5	0.02
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	5	0.02

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	2	0.01
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	2	0.01

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	1	0.05

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: BoilersTotalSO2Tons

EmissionLimitation: 6.45

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boilers

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2184 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

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Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

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Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/20/13

TotalSourceOperatingTimeinReportingPeriod: 2150 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	1	0.05

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

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Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2Opacity

EmissionLimitation: 10

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 21750 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	5	0.02
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	5	0.02

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	1	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	1	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	2	0.01

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	8	0.37
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	8	0.37

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	21	0.98
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	21	0.98

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From4/01/2014To6/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/13

TotalSourceOperatingTimeinReportingPeriod: 2142 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.09
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	2	0.09

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	4	0.19
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	4	0.19

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Environmental Planner	7-30-14
NAME	SIGNATURE	TITLE	DATE

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/14/14 08:36:44	05/14/14 09:05:43	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 5 Periods , Data Availability for this Reporting Period = 99.98 %

Total Operating Time in the Reporting Period = 21740 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/11/14 04:00:42	04/11/14 04:59:42	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler startup, followed MMP startup procedures

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/14/14 10:00:34	05/14/14 10:59:34	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/14/14 10:00:34	05/14/14 10:59:34	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 2150 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	05/14/14 09:18:39	05/14/14 09:47:35	5	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 5 Periods , Data Availability for this Reporting Period = 99.98 %

Total Operating Time in the Reporting Period = 21750 Periods

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	04/08/14 16:00:33	04/08/14 16:59:33	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler startup, followed MMP procedures
2	04/09/14 07:00:34	04/09/14 07:59:34	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Boiler startup, followed MMP procedures

Total Downtime in the Reporting Period = 2 hours , Data Availability for this Reporting Period = 99.91 %

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 04/01/14 to 06/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station **Location:** Filer City, MI

Source: Boiler 1

Parameter: Opacity **Limit:** 10

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	04/07/14 01:30:35	04/07/14 01:35:35	1	11	Control Equip Problems	High Pressure bypass	Stabilized and restored to service
2	05/13/14 04:24:34	05/13/14 04:29:34	1	12	Control Equip Problems	High pressure bypass	Manual cleaning, restored to service

Total Duration in the Reporting Period = 2 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 21740 Periods

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0.7

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Report Printed on: 07/22/14 17:07:25

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2184 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2150 hours

Report Printed on: 07/22/14 17:07:33

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/09/14 04:30:36	04/09/14 04:35:36	1	13	13	Other Known Causes	Boiler down	Maintenance outage, process down
2	06/16/14 11:48:32	06/16/14 11:53:32	1	11	11	Control Equip Problems	High Pressure Bypass	Stabilized and restored, system in service

Total Duration in the Reporting Period = 2 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 21750 Periods

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

Limit: 0.7

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	04/08/14 00:00:59	04/08/14 23:59:59	8	0.9	0.7	Other Known Causes	Boiler down	Maintenance outage, boiler down

Total Duration in the Reporting Period = 8 hours , Percentage of Operating Time above Excess Emission Limit = 0.37 %

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/09/14 12:00:39	04/10/14 08:59:31	21	0.4	0.4	Startup/Shutdown	Boiler Startup	Followed MMP procedure for startup

Total Duration in the Reporting Period = 21 hours , Percentage of Operating Time above Excess Emission Limit = 0.98 %

Total Operating Time in the Reporting Period = 2142 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 04/01/14 to 06/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	04/09/14 11:00:36	04/09/14 14:59:37	4	116.4	116.7	Startup/Shutdown	Startup /Shutdown	Followed MMP startup procedures

Total Duration in the Reporting Period = 4 hours , Percentage of Operating Time above Excess Emission Limit = 0.19 %

Total Operating Time in the Reporting Period = 2142 hours

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i

Serial Number: 0623017966

Low-Level Calibration Gas (20-30% of Span) (100.00 ppm - 150.00 ppm)	Concentration: 124.10 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN
Mid-Level Calibration Gas (50-60% of Span) (250.00 ppm - 300.00 ppm)	Concentration: 275.00 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN
High-Level Calibration Gas (80-100% of Span) (400.00 ppm - 500.00 ppm)	Concentration: 423.60 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/13/14 Tester: Jamea Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:53:40	125.80	11:58:32	273.90	12:03:33	420.00
Run 2	12:22:40	126.80	12:27:32	276.50	12:32:47	421.40
Run 3	12:53:29	127.20	12:58:29	277.40	13:03:44	421.50
Avg. Monitor Response		126.600		275.933		420.967
Linearity Error		2.1		0.3		0.6
Absolute Difference		2.6		0.9		2.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717877

Low-Level Calibration Gas (20-30% of Span) (400.00 ppm - 600.00 ppm)	Concentration: 502.30 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration: 1099.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (1600.0 ppm - 2000.0 ppm)	Concentration: 1712.0 Cylinder No.: XC028064B Expiration Date: 03/04/22	Vendor ID: B62014 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/13/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:22:37	507.80	13:27:42	1108.6	13:32:43	1695.0
Run 2	13:53:43	507.80	13:58:43	1105.2	14:03:47	1687.4
Run 3	14:22:38	504.40	14:27:43	1102.0	14:32:45	1684.8
Avg. Monitor Response		506.667		1105.27		1689.07
Linearity Error		0.9		0.6		1.3
Absolute Difference		4.4		6.3		22.9
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert

Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717877

Low-Level Calibration Gas (20-30% of Span) (40.000 ppm - 60.000 ppm)	Concentration: 49.390 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (100.00 ppm - 120.00 ppm)	Concentration: 108.40 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (160.00 ppm - 200.00 ppm)	Concentration: 170.60 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/13/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:53:40	51.800	11:58:32	107.20	12:03:33	170.00
Run 2	12:22:40	50.800	12:27:32	110.50	12:32:47	169.70
Run 3	12:53:29	50.700	12:58:29	109.20	13:03:44	171.30
Avg. Monitor Response		51.100		108.967		170.333
Linearity Error		3.5		0.6		0.2
Absolute Difference		1.7		0.7		0.3
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i Serial Number: 0622717887

Low-Level Calibration Gas (20-30% of Span) (600.0 ppm - 900.0 ppm)	Concentration: 742.4 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, ,SO2,BALN		
Mid-Level Calibration Gas (50-60% of Span) (1500.0 ppm - 1800.0 ppm)	Concentration: 1639.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN		
High-Level Calibration Gas (80-100% of Span) (2400.0 ppm - 3000.0 ppm)	Concentration: 2657.0 Cylinder No.: XC028064B Expiration Date: 03/04/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN		

Test Date: 05/13/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:22:43	739.2	13:27:43	1638.3	13:32:51	2659.5
Run 2	13:53:30	740.1	13:58:37	1641.9	14:03:37	2658.0
Run 3	14:22:37	741.9	14:27:37	1643.7	14:32:29	2661.6
Avg. Monitor Response		740.400		1641.30		2659.70
Linearity Error		0.3		0.1		0.1
Absolute Difference		2.0		2.3		2.7
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Blr 1 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I

Serial Number: 0622717887

Low-Level Calibration Gas (20-30% of Span) (60.0 ppm - 90.0 ppm)	Concentration: 74.5 Cylinder No.: CC27079 Expiration Date: 09/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN
Mid-Level Calibration Gas (50-60% of Span) (150.0 ppm - 180.0 ppm)	Concentration: 164.0 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN
High-Level Calibration Gas (80-100% of Span) (240.0 ppm - 300.0 ppm)	Concentration: 257.8 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN

Test Date: 05/13/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:53:40	76.0	11:58:32	163.2	12:03:33	259.6
Run 2	12:22:40	73.3	12:27:32	162.5	12:32:47	257.0
Run 3	12:53:29	73.2	12:58:29	161.6	13:03:44	256.5
Avg. Monitor Response		74.167		162.433		257.700
Linearity Error		0.4		1.0		0.0
Absolute Difference		0.3		1.6		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i Serial Number: 0622717869

Low-Level Calibration Gas (20-30% of Span) (4.000 % - 6.000 %)	Concentration: 5.549 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (10.000 % - 12.000 %)	Concentration: 11.020 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (16.000 % - 20.000 %)	Concentration: 17.010 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/13/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	11:53:40	5.600	11:58:32	11.020	12:03:33	17.070
Run 2	12:22:40	5.630	12:27:32	11.080	12:32:47	17.060
Run 3	12:53:29	5.610	12:58:29	11.090	13:03:44	17.050
Avg. Monitor Response		5.613		11.063		17.060
Linearity Error		1.1		0.4		0.3
Absolute Difference		0.1		0.0		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

CGA Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717879

Low-Level Calibration Gas (20-30% of Span) (400.0 ppm - 600.0 ppm)	Concentration:	502.3
	Cylinder No.:	CC39257
	Expiration Date:	11/16/19
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration:	1099.0
	Cylinder No.:	CC151205
	Expiration Date:	11/16/14

Test Date: 05/15/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:09:31	503.4	09:15:36	1099.8
Run 2	09:39:42	508.8	09:45:48	1098.0
Run 3	10:09:40	507.6	10:15:45	1101.0
Avg. Monitor Response		506.6		1099.6
Calibration Error		0.900		0.100
Absolute Difference		4.3		0.6
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002922

CGA Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 1 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i Serial Number: 0622717873

Low-Level Calibration Gas (5.00% - 8.00%)
Concentration: 5.55
Cylinder No.: CC39257
Expiration Date: 11/16/19

Mid-Level Calibration Gas (10.00% - 14.00%)
Concentration: 11.05
Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 05/15/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:09:31	5.50	09:15:36	10.90
Run 2	09:39:42	5.51	09:45:48	10.91
Run 3	10:09:40	5.52	10:15:45	10.90
Avg. Monitor Response		5.51		10.90
Calibration Error		-0.700		-1.400
Absolute Difference		0.04		0.15
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002923

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 NOx High Audit Test Results Analyzer Span: 500.00 ppm

Mfr & Model: Thermo 42i Serial Number: 0623017967

Low-Level Calibration Gas (20-30% of Span) (100.00 ppm - 150.00 ppm)	Concentration: 124.10 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (250.00 ppm - 300.00 ppm)	Concentration: 275.00 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (400.00 ppm - 500.00 ppm)	Concentration: 423.60 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:39	128.00	12:13:41	275.90	12:18:49	420.50
Run 2	12:38:39	126.80	12:43:39	276.10	12:48:40	420.80
Run 3	13:08:41	126.20	13:13:35	276.10	13:18:42	421.80
Avg. Monitor Response		127.000		276.033		421.033
Linearity Error		2.4		0.4		0.6
Absolute Difference		3.0		1.0		2.6
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 SO2 High Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717880

Low-Level Calibration Gas (20-30% of Span) (400.00 ppm - 600.00 ppm)	Concentration: 502.30 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, ,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration: 1099.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (1600.0 ppm - 2000.0 ppm)	Concentration: 1712.0 Cylinder No.: XC028064B Expiration Date: 03/04/22	Vendor ID: B62014 Gas Type Code: CO,CO2,' ,SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:38:37	510.80	13:43:45	1101.6	13:48:44	1705.4
Run 2	14:08:31	504.00	14:13:41	1101.0	14:18:40	1703.2
Run 3	14:38:35	497.60	14:43:36	1104.6	14:48:35	1700.2
Avg. Monitor Response		504.133		1102.40		1702.93
Linearity Error		0.4		0.3		0.5
Absolute Difference		1.8		3.4		9.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002925

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 SO2 Low Audit Test Results Analyzer Span: 200.00 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717880

Low-Level Calibration Gas (20-30% of Span) (40.000 ppm - 60.000 ppm)	Concentration: 49.390 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (100.00 ppm - 120.00 ppm)	Concentration: 108.40 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (160.00 ppm - 200.00 ppm)	Concentration: 170.60 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:39	50.400	12:13:41	106.70	12:18:49	166.90
Run 2	12:38:39	49.200	12:43:39	108.10	12:48:40	166.80
Run 3	13:08:41	49.300	13:13:35	107.10	13:18:42	166.30
Avg. Monitor Response		49.633		107.300		166.667
Linearity Error		0.5		0.9		2.3
Absolute Difference		0.2		1.0		3.9
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

TESFiler0002926

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 CO High Audit Test Results Analyzer Span: 3000.0 ppm

Mfr & Model: Thermo 48i Serial Number: 0622717888

Low-Level Calibration Gas (20-30% of Span) (600.0 ppm - 900.0 ppm)	Concentration: 742.4 Cylinder No.: CC39257 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2, ,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (1500.0 ppm - 1800.0 ppm)	Concentration: 1639.0 Cylinder No.: CC151205 Expiration Date: 11/16/14	Vendor ID: B62011 Gas Type Code: CO,CO2, ,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (2400.0 ppm - 3000.0 ppm)	Concentration: 2657.0 Cylinder No.: XC028064B Expiration Date: 03/04/22	Vendor ID: B62014 Gas Type Code: CO,CO2, SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	13:38:37	746.1	13:43:45	1639.5	13:48:44	2655.6
Run 2	14:08:31	739.5	14:13:41	1628.7	14:18:40	2649.3
Run 3	14:38:35	738.6	14:43:36	1627.5	14:48:35	2653.8
Avg. Monitor Response		741.400		1631.90		2652.90
Linearity Error		0.1		0.4		0.2
Absolute Difference		1.0		7.1		4.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002927

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 CO Low Audit Test Results Analyzer Span: 300.0 ppm

Mfr & Model: Thermo 48I Serial Number: 0622717888

Low-Level Calibration Gas (20-30% of Span) (60.0 ppm - 90.0 ppm)	Concentration: 74.5 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (150.0 ppm - 180.0 ppm)	Concentration: 164.0 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (240.0 ppm - 300.0 ppm)	Concentration: 257.8 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:39	78.5	12:13:41	165.5	12:18:49	257.0
Run 2	12:38:39	74.3	12:43:39	164.8	12:48:40	256.2
Run 3	13:08:41	77.3	13:13:35	165.8	13:18:42	259.1
Avg. Monitor Response		76.700		165.367		257.433
Linearity Error		3.0		0.8		0.1
Absolute Difference		2.2		1.4		0.4
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

TESFiler0002928

Linearity Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 CO2 Audit Test Results Analyzer Span: 20.000 %

Mfr & Model: Thermo 410i Serial Number: 0622717874

Low-Level Calibration Gas (20-30% of Span) (4.000 % - 6.000 %)	Concentration: 5.549 Cylinder No.: CC27079 Expiration Date: 11/16/15	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
Mid-Level Calibration Gas (50-60% of Span) (10.000 % - 12.000 %)	Concentration: 11.020 Cylinder No.: CC214741 Expiration Date: 11/16/19	Vendor ID: B62011 Gas Type Code: CO,CO2,NO,SO2,BALN	
High-Level Calibration Gas (80-100% of Span) (16.000 % - 20.000 %)	Concentration: 17.010 Cylinder No.: CC406405 Expiration Date: 09/13/21	Vendor ID: B62013 Gas Type Code: CO,CO2,NO,SO2,BALN	

Test Date: 05/14/14 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	12:08:39	5.630	12:13:41	11.030	12:18:49	16.950
Run 2	12:38:39	5.570	12:43:39	11.030	12:48:40	16.930
Run 3	13:08:41	5.580	13:13:35	11.040	13:18:42	16.920
Avg. Monitor Response		5.593		11.033		16.933
Linearity Error		0.8		0.1		0.5
Absolute Difference		0.0		0.0		0.1
Test Status		Pass		Pass		Pass

$$\text{Linearity Error} = \frac{\text{ABS I Cal. Gas Concentration - Avg. Monitor Response I}}{\text{Cal. Gas Concentration}} \times 100$$

Absolute Difference = ABS I Cal. Gas Concentration - Avg. Monitor Response I

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm

Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 0.5 %

Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

I have personally performed this linearity test according to the procedures outlined in CFR 40, Part 75 and attest that the recorded information on this document is true, accurate, and complete.

Signature: _____

Print Name: Josh Schubert
Technician/Service Representative

CGA Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Blr 2 Inlet SO2 Audit Test Results Analyzer Span: 2000.0 ppm

Mfr & Model: Thermo 43i Serial Number: 0622717883

Low-Level Calibration Gas (20-30% of Span) (400.0 ppm - 600.0 ppm)	Concentration:	502.3
	Cylinder No.:	CC39257
	Expiration Date:	11/16/19
Mid-Level Calibration Gas (50-60% of Span) (1000.0 ppm - 1200.0 ppm)	Concentration:	1099.0
	Cylinder No.:	CC151205
	Expiration Date:	11/16/14

Test Date: 05/15/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	07:23:40	508.0	07:29:45	1094.4
Run 2	07:53:40	506.2	07:59:47	1090.8
Run 3	08:23:43	506.2	08:29:50	1093.0
Avg. Monitor Response		506.8		1092.7
Calibration Error		0.900		-0.600
Absolute Difference		4.5		6.3
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002930

CGA Test Report - 2014Q2

Facility Name: T.E.S. Filer City Station Location: Filer City, MI

Bir 2 Inlet CO2 Audit Test Results Analyzer Span: 20.00 %

Mfr & Model: Thermo 410i Serial Number: 0622717875

Low-Level Calibration Gas (5.00% - 8.00%)
Concentration: 5.55
Cylinder No.: CC39257
Expiration Date: 11/16/19

Mid-Level Calibration Gas (10.00% - 14.00%)
Concentration: 11.05
Cylinder No.: CC151205
Expiration Date: 11/16/14

Test Date: 05/15/14 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	07:23:40	5.55	07:29:45	10.94
Run 2	07:53:40	5.55	07:59:47	10.94
Run 3	08:23:43	5.56	08:29:50	10.94
Avg. Monitor Response		5.55		10.94
Calibration Error		0.000		-1.000
Absolute Difference		0.00		0.11
Test Status		Pass		Pass

$$\text{Calibration Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration}}{\text{Cal. Gas Concentration}} \times 100$$

I have personally performed this Cylinder Gas Audit (CGA) according to the procedures outlined in CFR 40, Part 60, Appendix F, Section 5.1.2 and attest that the recorded information on this document is true, accurate, and complete.

Signature: James Fanning

Print Name: James Fanning

Technician/Service Representative

15 May 2014

TESFiler0002931

Airgas

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E04NI94E15A0013	Reference Number:	32-400026870-1
Cylinder Number:	CC39257	Cylinder Volume:	147.3 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2019

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	500.0 PPM	502.3 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	750.0 PPM	742.4 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.555 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	09061013	CC300405	479.5 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.6%	May 15, 2015
NTRM	09060421	CC286588	501.3 PPM CARBON MONOXIDE/NITROGEN		Feb 01, 2013
NTRM	9060606	CC262087	9.921 % CARBON DIOXIDE/NITROGEN		Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 11% CO2, Nicolet 6700	OBSOLETE	Oct 28, 2011
E/N 173, 5000 ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 1000ppmFS SO2, Nicolet 6700	OBSOLETE	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Signature on file

Approved for Release

TESFiler0002932

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E05NI94E15A0008	Reference Number:	32-400026874-1
Cylinder Number:	CC27079	Cylinder Volume:	147.2 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2015

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	50.00 PPM	49.39 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
NITRIC OXIDE	125.0 PPM	124.1 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				
Total oxides of nitrogen		62.05 PPM		For Reference Only	

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060215	CC281048	49.67 PPM SULFUR DIOXIDE/NITROGEN		May 13, 2017
NTRM	09060503	CC280417	98.88 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Feb 01, 2013
NTRM	11060139	CC332059	248.4 PPM NITRIC OXIDE/NITROGEN		Jan 11, 2017
NTRM	9060606	CC413681	16.939 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	FTIR	Nov 11, 2011
E/N 54, LSO2, Nicolet 6700	FTIR	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0002933

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E05NI88E15A0016	Reference Number:	32-400026873-1
Cylinder Number:	CC214741	Cylinder Volume:	150.5 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2019

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	110.0 PPM	108.4 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	165.0 PPM	164.0 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
NITRIC OXIDE	275.0 PPM	275.0 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	11.00 %	11.02 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				
Total oxides of nitrogen		137.5 PPM		For Reference Only	

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	08061635	CC66837	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 15, 2012
NTRM	08061635	CC255794	247.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.87	Oct 15, 2012
NTRM	08060311	CC254643	250.0 PPM CARBON MONOXIDE/NITROGEN		May 15, 2012
NTRM	10060421	CC268177	495.6 PPM NITRIC OXIDE/NITROGEN		Feb 01, 2016
NTRM	9060606	CC413681	16.939 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2011
E/N 173, 250ppmFS CO, Siemens	Nondispersive Infrared (NDIR)	Nov 15, 2011
E/N 54, MNO, Nicolet 6700	FTIR	Nov 11, 2011
E/N 54, HSO2, Nicolet 6700	FTIR	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0002934

Airgas

In Service 5-23-12

Airgas Great Lakes
2009 Bellaire Ave.
Royal Oak, MI 48067-2020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E04NI88E15A1FJ0	Reference Number:	32-400026871-1
Cylinder Number:	CC151205	Cylinder Volume:	151 Cu.Ft.
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
		Analysis Date:	Nov 16, 2011

Expiration Date: Nov 16, 2014

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed. Analytical Methodology does not require correction for analytical interferences. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.
Do Not Use This Cylinder below 150 psig/1.0. 1 Mega Pascal

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty
SULFUR DIOXIDE	1100 PPM	1099 PPM	G1	+/- 1% NIST Traceable
CARBON MONOXIDE	1650 PPM	1639 PPM	G1	+/- 1% NIST Traceable
CARBON DIOXIDE	11.00 %	11.05 %	G1	+/- 1% NIST Traceable
NITROGEN	Balance			

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Expiration Date
NTRM	0712609	CC239960	2478PPM SULFUR DIOXIDE/NITROGEN	Mar 23, 2017
NTRM	0060606	CC262087	9.021% CARBON DIOXIDE/NITROGEN	Apr 10, 2013
NTRM	020602	SG9161128BAL	1488PPM CARBON MONOXIDE/NITROGEN	May 15, 2012

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, 20% FS CO2, Nicolet 6700	Fourier Transform Infrared (FTIR).	Oct 28, 2011
E/N 173, 5000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 4000ppmFS SO2, Nicolet 6700	Fourier Transform Infrared (FTIR)	Nov 11, 2011

Triad Data Available Upon Request

Notes:

A. F. Muhammad

Approved for Release

TESFiler0002935

Airgas In Service 5-12-14

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E04NI82E15A3LD7	Reference Number:	32-400326588-1
Cylinder Number:	XC028064B	Cylinder Volume:	154.8 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Mar 04, 2014

Expiration Date: Mar 04, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1700 PPM	1712 PPM	G1	+/- 0.6% NIST Traceable	02/25/2014, 03/04/2014
CARBON MONOXIDE	2550 PPM	2657 PPM	G1	+/- 0.7% NIST Traceable	02/25/2014
CARBON DIOXIDE	17.00 %	17.05 %	G1	+/- 0.9% NIST Traceable	02/25/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12062604	CC366175	996.8 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.5%	Jun 22, 2018
NTRM	12060715	CC356042	2498 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Dec 21, 2017
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Jan 31, 2014
E/N 54 Nicolet 6700 HCO	FTIR	Feb 06, 2014
E/N 54, HSO2, Nicolet 6700	FTIR	Feb 07, 2014

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0002936

In Service 4-16-14

Out of Service 5-22-14

Airgas

Airgas USA, LLC
2009 Bellaire Ave.
Royal Oak, MI 48067-8020
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Part Number:	E05NI82E15A0001	Reference Number:	32-400248416-1
Cylinder Number:	CC406405	Cylinder Volume:	154.6 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62013	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Sep 13, 2013

Expiration Date: Sep 13, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	425.0 PPM	423.6 PPM	G1	+/- 1% NIST Traceable	09/03/2013, 09/13/2013
SULFUR DIOXIDE	170.0 PPM	170.6 PPM	G1	+/- 1% NIST Traceable	09/03/2013, 09/13/2013
CARBON MONOXIDE	255.0 PPM	257.8 PPM	G1	+/- 1% NIST Traceable	09/03/2013
NITRIC OXIDE	425.0 PPM	423.6 PPM	G1	+/- 1% NIST Traceable	09/03/2013, 09/13/2013
CARBON DIOXIDE	17.00 %	17.01 %	G1	+/- 0.9% NIST Traceable	09/03/2013
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060849	CC343231	241.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	May 13, 2017
PRM	12312	680179	10.01 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	Feb 14, 2012
NTRM	126062428	CC341302	988.8 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Jun 22, 2018
NTRM	12061043	CC359540	500.7 PPM NITRIC OXIDE/NITROGEN	+/- 0.5%	Feb 16, 2018
GMIS	124206889134	CC323702	4.666 PPM NITROGEN DIOXIDE/NITROGEN	+/- 2.0%	May 05, 2016
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

The SRM or PRM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Aug 20, 2013
E/N 54 Nicolet 6700 MCO	FTIR	Sep 03, 2013
E/N 54, MNO, Nicolet 6700	FTIR	Sep 05, 2013
E/N 54, 4ppm FS NO2, Nicolet 6700	FTIR	Aug 21, 2013
E/N 54, MSO2, Nicolet 6700	FTIR	Sep 06, 2013

Triad Data Available Upon Request

Notes:

Consumers Energy

A CMS Energy Company

Environmental Services

October 29, 2014

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: THIRD QUARTER 2014 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the Third Quarter 2014 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. Please note that this quarterly report does not include the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B, or cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F, as Relative Accuracy Test Audits (RATAs) of the inlet and outlet monitoring systems were performed in August of 2014. A copy of the RATA report was sent to Ms. Karen Kajiya-Mills of the MDEQ-AQD within 45 days of completing the tests.

Also included in this report are the results of Boilers No. 1 and No. 2 opacity monitor audits conducted in accordance with the US EPA Publication "*Technical Assistance Document – Performance Audit Procedures for Opacity Monitors*", EPA 450/4-92-010. These audits are required as part of the Boilers No. 1 and No. 2 Compliance Assurance Monitoring Plan under 40 CFR Part 64.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 3rd quarter 2014, so this quarterly report does not contain any information on C/D waste wood shipments.

Lastly, it should be noted that the Data Acquisition and Handling System (DAHS) was replaced during unit outages at the end of September/start of October. Due to the DAHS replacement, the CEMS Daily Averages Report for Unit 1 does not contain any data for September 30, 2014. The boiler was not operating on this date, so there are no 30-day rolling average or 24-hour daily average values to report for 09/30/2014.

1945 W. Parnall Road •, Jackson, MI 49201 • Fax: 517 788 2329 • www.consumersenergy.com

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,

Jason Prentice

Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Karen Kajiya-Mills, MDEQ-AQD
Richard Brown, TES Filer City Station (Electronic Only)
Filer City Compliance File-Q, SA, A File

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT 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 Permit (ROP) 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 specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 07/01/2014 To 09/30/2014

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 3rd Quarter of 2014 (July – September).

Boilers 1 and 2 Annual COMS Audit Report (Tests Conducted 08/21/2014).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman	General Manager	231-723-6573
Name of Responsible Official (print or type)	Title	Phone Number

Henry M. Hoffman — 10-28-2014

Signature of Responsible Official — Date

* Photocopy this form as needed.

EQP 5736 (Rev. 10/04)

TESS Filer 1002940

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2014
Report Period Ending: **March 31** ___ **June 30** ___ **Sept. 30** X **Dec. 31** ___

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET
FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility: BOILER #1 X BOILER #2 X

5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
GEESI/FABRIC FILTER BAGHOUSES

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
(NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 10-29-14

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffman

(Date) 10-28-2014

CEM\3rd QTR14
File: 001-008-020-1-5

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	N / A	N / A	N / A	N / A

[1] T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
8. Zero/Span Values														
ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM [1] L: 200 PPM [1]	H: 1,500 PPM [1] L: 200 PPM [1]	500 PPM	500 PPM	H: 3,000 PPM [2] L: 300 PPM [2]	H: 3,000 PPM [2] L: 300 PPM [2]	20.0 %	20.0 %	20.0 %	20.0 %

[1] The span values for the SO_2 Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

[2] The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/19/2014	10/31/2006 (Stk SO_2 = 09/25/08)	10/18/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2014	10/26/2006
	Boiler 2 Gas CEMS	08/20/2014	10/31/2006 (Stk SO_2 = 09/25/08)	10/23/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2014	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE
11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	X		
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	X		
3. Are the data representative of plant performance?	X		
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	X		
5. Was compliance with the standards achieved during the reporting period?		X	
Boiler #1			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour		X	
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	
Boiler #2			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour	X		
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average	X		

T.E.S. FILER CITY STATION

V. EXCESS EMISSION REPORT - SO_2 AND NO_x

SO_2 EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO_2 EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
07/19/14	1	1.6	Boiler 1 was removed from service for a routine maintenance outage; during SU, the SO_2 dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.
None	2	N / A	N / A	N / A

SO_2 EVENTS (30 Day Rolling Average Limit of SO_2 Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

T.E.S. FILER CITY STATION

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

VI. QUALITY ASSURANCE DATA

1a. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 1

INLET CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
07/14/14 (8 Hrs NOx CEMS Downtime)	Lost NOx CEMS data due to troubleshooting and maintenance activities, thus leaving only 16 hours of valid data on this date.	After conducting an investigation into the cause of the CEMS malfunction, eventually replaced the air dryer, adjusted the zero air and ran passing calibration error tests.

T.E.S. FILER CITY STATION

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of COMS and CEMS downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

1b. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 2

INLET CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

T.E.S. FILER CITY STATION

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
09/04/14	The DAHS appears to be excluding data on this date from the 30-day rolling average SO_2 lb/mmBtu emission rate calculation; there is no missing SO_2 lb/mmBtu data on this date and the boiler was in service for all 24 clock hours.	TES Filer City Station will work with the DAHS vendor to understand why data collected on 09/04/14 is being excluded from the calculation. If such data exclusion is erroneous, a revised CEMS Daily Averages report will be submitted at the earliest possible opportunity.

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1b of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of COMS and CEMS downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION
AIR EMISSION SUMMARY

JULY 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	40152 /	40152	100.00%	626.0 /	629.0	99.52%	629.0 /	629.0	100.00%	629.0 /	629.0	100.00%	629.0 /	629.0	100.00%
YTD			99.99%			99.94%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	39900 /	39900	100.00%	623.0 /	623.0	100.00%	623.0 /	623.0	100.00%	623.0 /	623.0	100.00%	623.0 /	623.0	100.00%
YTD			99.98%			99.84%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

AUGUST 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	42894 /	42912	99.96%	616.0 /	616.0	100.00%	616.0 /	616.0	100.00%	616.0 /	616.0	100.00%	616.0 /	616.0	100.00%
YTD			99.99%			99.95%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	44508 /	44508	100.00%	718.0 /	718.0	100.00%	718.0 /	718.0	100.00%	718.0 /	718.0	100.00%	718.0 /	718.0	100.00%
YTD			99.99%			99.86%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

SEPTEMBER 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	39816 /	39816	100.00%	625.0 /	625.0	100.00%	625.0 /	625.0	100.00%	625.0 /	625.0	100.00%	625.0 /	625.0	100.00%
YTD			99.99%			99.95%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HR	BLR FIRING HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP	COMP HR	OP DAY HR	% IN COMP
MONTH	40626 /	40626	100.00%	646.0 /	646.0	100.00%	646.0 /	646.0	100.00%	646.0 /	646.0	100.00%	646.0 /	646.0	100.00%
YTD			99.99%			99.87%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

3rd QUARTER 2014

	OPACITY			SULFUR DIOXIDE									NITROGEN OXIDES		
	<6 MINUTE AVE OF 10 %			<24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			<30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	**40,152 /**	**40,152**	**100.00%**	**626 /**	**629**	**99.52%**	**629 /**	**629**	**100.00%**	**629 /**	**629**	**100.00%**	**629 /**	**629**	**100.00%**
AUG	**42,894 /**	**42,912**	**99.96%**	**616 /**	**616**	**100.00%**	**616 /**	**616**	**100.00%**	**616 /**	**616**	**100.00%**	**616 /**	**616**	**100.00%**
SEP	**39,816 /**	**39,816**	**100.00%**	**625 /**	**625**	**100.00%**	**625 /**	**625**	**100.00%**	**625 /**	**625**	**100.00%**	**625 /**	**625**	**100.00%**
3rd Quarter	**122,862 /**	**122,880**	**99.99%**	**1,867 /**	**1,870**	**99.84%**	**1,870 /**	**1,870**	**100.00%**	**1,870 /**	**1,870**	**100.00%**	**1,870 /**	**1,870**	**100.00%**
YTD			**99.99%**			**99.95%**			**100.00%**			**100.00%**			**100.00%**
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
JUL	**39,900 /**	**39,900**	**100.00%**	**623 /**	**623**	**100.00%**	**623 /**	**623**	**100.00%**	**623 /**	**623**	**100.00%**	**623 /**	**623**	**100.00%**
AUG	**44,508 /**	**44,508**	**100.00%**	**718 /**	**718**	**100.00%**	**718 /**	**718**	**100.00%**	**718 /**	**718**	**100.00%**	**718 /**	**718**	**100.00%**
SEP	**40,626 /**	**40,626**	**100.00%**	**646 /**	**646**	**100.00%**	**646 /**	**646**	**100.00%**	**646 /**	**646**	**100.00%**	**646 /**	**646**	**100.00%**
3rd Quarter	**125,034 /**	**125,034**	**100.00%**	**1,987 /**	**1,987**	**100.00%**	**1,987 /**	**1,987**	**100.00%**	**1,987 /**	**1,987**	**100.00%**	**1,987 /**	**1,987**	**100.00%**
YTD			**99.99%**			**99.87%**			**100.00%**			**100.00%**			**100.00%**

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

CEMS Daily Averages - 07/01/14 To 09/30/14

Facility Name: T.E.S. Filer City Station Location: Filer City, MI Source: Boiler 1

Period: 07/01/14 00:00:00 To 09/30/14 23:59:59; Records = 91

	Operating Hours	NOx		SO2		SO2		SO2		Blr 1&2	
	CEMS	30-Day		24-Hr		30-Day		30-Day		SO2	
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	Tons	Vld
07/01/14	24	0.459	30	0.164	24	0.122	30	93.47	30	1.69	24
07/02/14	24	0.462	30	0.154	24	0.122	30	93.47	30	1.60	24
07/03/14	24	0.465	30	0.152	24	0.123	30	93.49	30	1.61	24
07/04/14	24	0.467	30	0.169	24	0.125	30	93.42	30	1.66	24
07/05/14	24	0.470	30	0.173	24	0.127	30	93.36	30	1.75	24
07/06/14	24	0.473	30	0.178	24	0.128	30	93.36	30	1.86	24
07/07/14	24	0.475	30	0.177	24	0.130	30	93.35	30	1.83	24
07/08/14	24	0.476	30	0.196	24	0.133	30	93.27	30	2.00	24
07/09/14	24	0.476	30	0.187	24	0.135	30	93.27	30	2.00	24
07/10/14	24	0.478	30	0.165	24	0.138	30	93.18	30	1.75	24
07/11/14	24	0.481	30	0.156	24	0.141	30	93.08	30	1.57	24
07/12/14	24	0.483	30	0.214	24	0.144	30	92.98	30	2.08	24
07/13/14	24	0.484	30	0.194	24	0.147	30	92.92	30	2.06	24
07/14/14	24	0.484	29	0.193	23	0.151	30	92.83	30	1.74	23
07/15/14	5	0.484	29	0.081	05	0.151	30	92.83	30	0.00	05
07/16/14	0	0.484	29	0.000	00	0.151	30	92.83	30	0.00	00
07/17/14	0	0.484	29	0.000	00	0.151	30	92.83	30	0.00	00
07/18/14	0	0.484	29	0.000	00	0.151	30	92.83	30	0.00	00
07/19/14	3	0.484	29	1.568	02	0.151	30	92.83	30	0.00	02
07/20/14	21	0.484	29	0.266	20	0.151	30	92.83	30	0.66	20
07/21/14	24	0.483	29	0.163	24	0.154	30	92.79	30	1.41	24
07/22/14	24	0.483	29	0.110	24	0.154	30	92.86	30	1.11	24
07/23/14	24	0.483	29	0.148	24	0.156	30	92.84	30	1.42	24
07/24/14	24	0.482	29	0.151	24	0.157	30	92.85	30	1.54	24
07/25/14	24	0.482	29	0.146	24	0.160	30	92.81	30	1.41	24
07/26/14	24	0.480	29	0.128	24	0.161	30	92.87	30	1.34	24
07/27/14	24	0.479	29	0.102	24	0.160	30	92.97	30	1.02	24
07/28/14	24	0.479	29	0.155	24	0.159	30	93.01	30	1.27	24
07/29/14	24	0.478	29	0.125	24	0.158	30	93.08	30	1.01	24
07/30/14	24	0.479	29	0.159	24	0.159	30	93.09	30	1.18	24
07/31/14	24	0.480	29	0.211	24	0.160	30	93.09	30	1.62	24
08/01/14	24	0.481	29	0.150	24	0.160	30	93.10	30	1.23	24
08/02/14	24	0.480	29	0.140	24	0.160	30	93.12	30	0.93	24
08/03/14	24	0.481	29	0.094	24	0.159	30	93.19	30	1.04	24
08/04/14	24	0.481	29	0.132	24	0.158	30	93.23	30	1.39	24
08/05/14	24	0.483	29	0.123	24	0.157	30	93.28	30	1.29	24
08/06/14	24	0.482	29	0.116	24	0.155	30	93.35	30	1.01	24

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	Blr 1&2 SO2 Tons	Vld
08/07/14	16	0.482	29	0.161	16	0.155	30	93.35	30	1.44	24
08/08/14	0	0.482	29	0.000	00	0.155	30	93.35	30	0.96	24
08/09/14	0	0.482	29	0.000	00	0.155	30	93.35	30	1.00	24
08/10/14	0	0.482	29	0.000	00	0.155	30	93.35	30	1.00	24
08/11/14	0	0.482	29	0.000	00	0.155	30	93.35	30	0.92	24
08/12/14	9	0.482	29	0.253	04	0.155	30	93.35	30	1.42	24
08/13/14	24	0.481	29	0.130	24	0.154	30	93.41	30	1.31	24
08/14/14	24	0.479	29	0.167	24	0.155	30	93.40	30	1.43	24
08/15/14	24	0.477	29	0.170	24	0.155	30	93.43	30	1.51	24
08/16/14	24	0.473	29	0.161	24	0.155	30	93.51	30	1.72	24
08/17/14	24	0.470	29	0.237	24	0.157	30	93.52	30	2.27	24
08/18/14	24	0.467	29	0.167	24	0.156	30	93.57	30	2.08	24
08/19/14	24	0.464	29	0.148	24	0.155	30	93.67	30	1.66	24
08/20/14	24	0.461	29	0.159	24	0.154	30	93.73	30	1.59	24
08/21/14	24	0.458	29	0.144	24	0.153	30	93.77	30	1.55	24
08/22/14	24	0.454	29	0.161	24	0.153	30	93.80	30	1.73	24
08/23/14	24	0.452	29	0.167	24	0.152	30	93.87	30	1.72	24
08/24/14	24	0.450	29	0.123	24	0.149	30	93.94	30	1.35	24
08/25/14	24	0.448	30	0.126	24	0.147	30	94.01	30	1.16	24
08/26/14	15	0.448	30	0.140	15	0.147	30	94.01	30	0.00	15
08/27/14	24	0.450	30	0.313	24	0.147	30	93.73	30	1.46	24
08/28/14	24	0.449	30	0.104	24	0.146	30	93.69	30	1.07	24
08/29/14	24	0.448	30	0.095	24	0.145	30	93.74	30	1.07	24
08/30/14	24	0.446	30	0.155	24	0.145	30	93.72	30	1.44	24
08/31/14	24	0.445	30	0.149	24	0.145	30	93.70	30	1.60	24
09/01/14	23	0.445	30	0.204	24	0.145	30	93.70	30	1.46	24
09/02/14	0	0.445	30	0.000	00	0.145	30	93.70	30	0.00	00
09/03/14	1	0.445	30	0.000	00	0.145	30	93.70	30	0.00	00
09/04/14	24	0.447	30	0.582	24	0.147	29	92.94	30	1.74	24
09/05/14	24	0.445	30	0.174	24	0.149	29	92.85	30	1.61	24
09/06/14	24	0.443	30	0.139	24	0.149	29	92.90	30	1.27	24
09/07/14	24	0.442	30	0.108	24	0.148	29	92.94	30	1.34	24
09/08/14	24	0.440	30	0.146	24	0.148	29	92.97	30	1.60	24
09/09/14	24	0.438	30	0.130	24	0.145	29	93.09	30	1.28	24
09/10/14	24	0.436	30	0.181	24	0.146	29	93.04	30	1.60	24
09/11/14	24	0.435	30	0.170	24	0.147	29	92.98	30	1.58	24
09/12/14	24	0.434	30	0.166	24	0.150	29	92.88	30	1.51	24
09/13/14	24	0.433	30	0.202	24	0.152	29	92.80	30	1.91	24
09/14/14	24	0.433	30	0.143	24	0.153	29	92.79	30	1.45	24
09/15/14	24	0.433	30	0.159	24	0.154	29	92.73	30	1.53	24
09/16/14	24	0.433	30	0.115	24	0.154	29	92.72	30	1.01	24

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	Blr 1&2 SO2 Tons	Vld
09/17/14	24	0.435	30	0.132	24	0.152	29	92.73	30	1.33	24
09/18/14	24	0.436	30	0.088	24	0.150	29	92.80	30	1.06	24
09/19/14	24	0.439	30	0.111	24	0.148	29	92.78	30	1.22	24
09/20/14	24	0.440	30	0.097	24	0.143	29	92.86	30	1.11	24
09/21/14	24	0.443	30	0.122	24	0.142	29	92.85	30	1.20	24
09/22/14	24	0.445	30	0.082	24	0.139	29	92.88	30	0.90	24
09/23/14	24	0.447	30	0.087	24	0.137	29	92.94	30	0.96	24
09/24/14	24	0.449	30	0.087	24	0.135	29	92.98	30	0.92	24
09/25/14	24	0.452	30	0.119	24	0.134	29	93.02	30	1.16	24
09/26/14	24	0.453	30	0.109	24	0.132	29	93.07	30	1.02	24
09/27/14	24	0.454	30	0.102	24	0.131	29	93.05	30	0.94	24
09/28/14	24	0.455	30	0.098	24	0.130	29	93.06	30	0.91	24
09/29/14	3	0.455	30	0.000	01	0.130	29	93.06	30	0.00	08

CEMS Daily Averages - 07/01/14 To 09/30/14

Facility Name: T.E.S. Filer City Station Location: Filer City, MI Source: Boiler 2

Period: 07/01/14 00:00:00 To 09/30/14 23:59:59; Records = 92

	Operating Hours	NOx		SO2		SO2		SO2		
	CEMS	30-Day		24-Hr		30-Day		30-Day		
Date		lb/mmBt	Vld	lb/mmBt	Vld	lb/mmBt	Vld	% Red.	Vld	
07/01/14	24	0.429	30	0.188	24	0.132	30	92.95	30	0.00
07/02/14	24	0.432	30	0.177	24	0.133	30	92.93	30	0.00
07/03/14	24	0.434	30	0.176	24	0.134	30	92.92	30	0.00
07/04/14	24	0.436	30	0.175	24	0.137	30	92.85	30	0.00
07/05/14	24	0.438	30	0.185	24	0.139	30	92.80	30	0.00
07/06/14	24	0.438	30	0.205	24	0.140	30	92.77	30	0.00
07/07/14	24	0.439	30	0.201	24	0.142	30	92.77	30	0.00
07/08/14	24	0.440	30	0.216	24	0.146	30	92.65	30	0.00
07/09/14	24	0.440	30	0.223	24	0.149	30	92.55	30	0.00
07/10/14	24	0.441	30	0.190	24	0.152	30	92.48	30	0.00
07/11/14	24	0.442	30	0.162	24	0.153	30	92.46	30	0.00
07/12/14	24	0.443	30	0.212	24	0.156	30	92.42	30	0.00
07/13/14	24	0.442	30	0.230	24	0.159	30	92.36	30	0.00
07/14/14	24	0.441	30	0.179	24	0.162	30	92.33	30	0.00
07/15/14	5	0.441	30	0.055	05	0.162	30	92.33	30	0.00
07/16/14	0	0.441	30	0.000	00	0.162	30	92.33	30	0.00
07/17/14	0	0.441	30	0.000	00	0.162	30	92.33	30	0.00
07/18/14	0	0.441	30	0.000	00	0.162	30	92.33	30	0.00
07/19/14	0	0.441	30	0.000	00	0.162	30	92.33	30	0.00
07/20/14	18	0.441	30	0.380	18	0.162	30	92.33	30	0.00
07/21/14	24	0.439	30	0.161	24	0.165	30	92.24	30	0.00
07/22/14	24	0.436	30	0.121	24	0.166	30	92.27	30	0.00
07/23/14	24	0.435	30	0.152	24	0.169	30	92.22	30	0.00
07/24/14	24	0.433	30	0.170	24	0.172	30	92.18	30	0.00
07/25/14	24	0.432	30	0.156	24	0.174	30	92.17	30	0.00
07/26/14	24	0.429	30	0.155	24	0.176	30	92.17	30	0.00
07/27/14	24	0.427	30	0.114	24	0.176	30	92.25	30	0.00
07/28/14	24	0.426	30	0.109	24	0.173	30	92.41	30	0.00
07/29/14	24	0.425	30	0.087	24	0.170	30	92.59	30	0.00
07/30/14	24	0.424	30	0.089	24	0.167	30	92.71	30	0.00
07/31/14	24	0.423	30	0.127	24	0.167	30	92.77	30	0.00
08/01/14	24	0.421	30	0.104	24	0.165	30	92.86	30	0.00
08/02/14	8	0.421	30	0.667	08	0.165	30	92.86	30	0.00
08/03/14	24	0.419	30	0.124	24	0.164	30	92.96	30	0.00
08/04/14	24	0.417	30	0.159	24	0.163	30	92.98	30	0.00
08/05/14	24	0.416	30	0.145	24	0.163	30	93.03	30	0.00
08/06/14	24	0.417	30	0.098	24	0.160	30	93.16	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
08/07/14	24	0.417	30	0.194	24	0.160	30	93.15	30	0.00
08/08/14	24	0.415	30	0.199	24	0.161	30	93.12	30	0.00
08/09/14	24	0.413	30	0.211	24	0.162	30	93.08	30	0.00
08/10/14	24	0.410	30	0.209	24	0.163	30	93.04	30	0.00
08/11/14	24	0.407	30	0.193	24	0.163	30	93.03	30	0.00
08/12/14	24	0.406	30	0.238	24	0.164	30	93.00	30	0.00
08/13/14	24	0.405	30	0.147	24	0.162	30	93.09	30	0.00
08/14/14	24	0.404	30	0.132	24	0.160	30	93.21	30	0.00
08/15/14	24	0.404	30	0.141	24	0.157	30	93.35	30	0.00
08/16/14	24	0.403	30	0.196	24	0.157	30	93.42	30	0.00
08/17/14	24	0.403	30	0.229	24	0.159	30	93.43	30	0.00
08/18/14	24	0.404	30	0.264	24	0.161	30	93.44	30	0.00
08/19/14	24	0.404	30	0.198	24	0.160	30	93.51	30	0.00
08/20/14	24	0.403	30	0.168	24	0.160	30	93.54	30	0.00
08/21/14	24	0.404	30	0.175	24	0.160	30	93.52	30	0.00
08/22/14	24	0.406	30	0.193	24	0.163	30	93.44	30	0.00
08/23/14	24	0.407	30	0.184	24	0.164	30	93.41	30	0.00
08/24/14	24	0.409	30	0.152	24	0.163	30	93.44	30	0.00
08/25/14	24	0.410	30	0.109	24	0.161	30	93.50	30	0.00
08/26/14	14	0.410	30	0.206	14	0.161	30	93.50	30	0.00
08/27/14	24	0.413	30	0.300	24	0.163	30	93.25	30	0.00
08/28/14	24	0.413	30	0.113	24	0.163	30	93.22	30	0.00
08/29/14	24	0.412	30	0.125	24	0.163	30	93.14	30	0.00
08/30/14	24	0.411	30	0.141	24	0.165	30	93.03	30	0.00
08/31/14	24	0.410	30	0.181	24	0.168	30	92.87	30	0.00
09/01/14	23	0.410	30	0.205	23	0.168	30	92.87	30	0.00
09/02/14	0	0.410	30	0.000	00	0.168	30	92.87	30	0.00
09/03/14	1	0.410	30	0.000	00	0.168	30	92.87	30	0.00
09/04/14	24	0.411	30	0.570	24	0.170	29	92.22	30	0.00
09/05/14	24	0.411	30	0.156	24	0.172	29	92.14	30	0.00
09/06/14	24	0.411	30	0.123	24	0.172	29	92.14	30	0.00
09/07/14	24	0.412	30	0.166	24	0.172	29	92.13	30	0.00
09/08/14	24	0.412	30	0.183	24	0.174	29	92.09	30	0.00
09/09/14	24	0.410	30	0.134	24	0.175	29	92.05	30	0.00
09/10/14	24	0.409	30	0.150	24	0.173	29	92.11	30	0.00
09/11/14	24	0.409	30	0.154	24	0.172	29	92.15	30	0.00
09/12/14	24	0.408	30	0.142	24	0.170	29	92.24	30	0.00
09/13/14	24	0.408	30	0.190	24	0.169	29	92.26	30	0.00
09/14/14	24	0.409	30	0.166	24	0.168	29	92.30	30	0.00
09/15/14	24	0.408	30	0.153	24	0.165	29	92.40	30	0.00
09/16/14	24	0.407	30	0.090	24	0.163	29	92.46	30	0.00

Date	Operating Hours CEMS	NOx 30-Day lb/mmBt	Vld	SO2 24-Hr lb/mmBt	Vld	SO2 30-Day lb/mmBt	Vld	SO2 30-Day % Red.	Vld	
09/17/14	24	0.405	30	0.142	24	0.163	29	92.40	30	0.00
09/18/14	24	0.403	30	0.128	24	0.163	29	92.36	30	0.00
09/19/14	24	0.402	30	0.138	24	0.161	29	92.34	30	0.00
09/20/14	24	0.400	30	0.132	24	0.158	29	92.36	30	0.00
09/21/14	24	0.401	30	0.124	24	0.153	29	92.43	30	0.00
09/22/14	24	0.402	30	0.099	24	0.150	29	92.47	30	0.00
09/23/14	24	0.404	30	0.105	24	0.148	29	92.51	30	0.00
09/24/14	24	0.406	30	0.096	24	0.145	29	92.58	30	0.00
09/25/14	24	0.408	30	0.113	24	0.142	29	92.65	30	0.00
09/26/14	24	0.409	30	0.095	24	0.139	29	92.75	30	0.00
09/27/14	24	0.410	30	0.085	24	0.137	29	92.80	30	0.00
09/28/14	24	0.411	30	0.084	24	0.136	29	92.80	30	0.00
09/29/14	22	0.411	30	0.125	22	0.136	29	92.80	30	0.00
09/30/14	0	0.411	30	0.000	00	0.136	29	92.80	30	0.00

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1Opacity

EmissionLimitation: 10

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/21/14

TotalSourceOperatingTimeinReportingPeriod: 20480 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	4	0.02
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	4	0.02

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	3	0.01
2.Totaldurationofexcessemissions.....	3	0.01

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	13	0.70
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	14	0.75

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	5	0.27
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.11
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.37

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	3	0.16
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	3	0.16

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	5	0.27
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.11
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.37

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	5	0.27
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	8	0.43
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	13	0.70

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: BoilersTotalSO2Tons

EmissionLimitation: 6.45

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boilers

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1996 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.10
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	2	0.10

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	5	0.27
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	2	0.11
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.37

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	57	3.05
2.Totaldurationofexcessemissions.....	57	3.05

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler1COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler1

DateofLastCEMSCertificationorAudit: 08/19/14

TotalSourceOperatingTimeinReportingPeriod: 1870 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	4	0.21
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	4	0.21

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	37	1.98
2.Totaldurationofexcessemissions.....	37	1.98

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2Opacity

EmissionLimitation: 10

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/21/14

TotalSourceOperatingTimeinReportingPeriod: 20839 periods

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	7	0.03
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	7	0.03

Durationsin6-minuteperiods

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsin6-minuteperiods

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2NOxlb/mmBtu30-Day

EmissionLimitation: 0.60

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	1	0.05
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	4	0.20
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	5	0.25

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu24-Hr

EmissionLimitation: 0.7

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary

1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2lb/mmBtu30-Day

EmissionLimitation: 0.5

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2SO2Reduction30-Day

EmissionLimitation: 90

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	1	0.05

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.Totaldurationofexcessemissions.....	0	0.00

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ReportPrintedon:10/23/1414:31:31

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/mmBtu24-Hr

EmissionLimitation: 0.3

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	0	0.00

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	30	1.51
2.Totaldurationofexcessemissions.....	30	1.51

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ReportPrintedon:10/23/1414:31:34

ContinuousEmissionMonitorQuarterlyReportSummary
GaseousandOpacityExcessEmissionandMonitoringSystemPerformance

Pollutant: Boiler2COlb/hr24-Hr

EmissionLimitation: 115.2

ReportingPeriodDates: From7/01/2014To9/30/2014

CompanyName: T.E.S.FilerCityStation

Address: FilerCity,MI

ProcessUnitDescription: Boiler2

DateofLastCEMSCertificationorAudit: 08/20/14

TotalSourceOperatingTimeinReportingPeriod: 1987 hours

CEMSPerformanceSummary	TotalCEMSDowntimes includingexemptions	
1.CEMSdowntimeinreportingperioddueto:	Duration	% Unavailable(1)
1.MonitorEquipmentMalfunctions	0	0.00
2.Non-MonitorCEMSEquipmentMalfunction	0	0.00
3.Calibration/QA	1	0.05
4.OtherKnownCauses	0	0.00
5.UnknownCauses	0	0.00
2.TotalCEMSDowntime	1	0.05

Durationsinhours

(1)%Unavailableiscalculatedbythefollowingformula:

%Unavailable=CEMSDowntimeduringSourceOperatingTime/SourceOperatingTimex100

EmissionDataSummary		
1.Durationofexcessemissionsin reportingperioddueto:	Duration	%Excess Emissions(2)
1.Startup/Shutdown	0	0.00
2.ControlEquipProblems	0	0.00
3.ProcessProblems	0	0.00
4.OtherKnownCauses	0	0.00
5.UnknownCauses	22	1.11
2.Totaldurationofexcessemissions.....	22	1.11

Durationsinhours

(2)%ExcessEmissionsiscalculatedbythefollowingformulas:

%ExcessEmissions=TotalDurationofExcessEmissions/SourceOperatingTimex100

Onaseparatepage,describeanychangessincelastreportingperiodinCMS,processorcontrols.

Icertify,basedoninformationandbeliefformedafterreasonableinquiry,thestatementsandinformationinthisreportare true,accurate,andcomplete.

Jason M. Prentice	Jason M. Prentice	Env. Planner	10-29-14
NAME	SIGNATURE	TITLE	DATE

ReportPrintedon:10/23/1414:31:36

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/21/14 09:42:35	08/21/14 10:05:36	4	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Cals

Total Downtime in the Reporting Period = 4 Periods , Data Availability for this Reporting Period = 99.98 %

Total Operating Time in the Reporting Period = 20480 Periods

Report Printed on: 10/24/14 14:23:44

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/14 16:00:38	07/14/14 23:59:37	8	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Replaced air dryer, adjusted zero air, completed
2	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler start-up, followed MMP procedures
3	08/12/14 15:00:39	08/12/14 19:59:41	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Replaced IR source, chopper motor, re-calibration and

Total Downtime in the Reporting Period = 14 hours , Data Availability for this Reporting Period = 99.25 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:23:49

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/14 23:00:37	07/14/14 23:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Checked system, performed auto cal. Unit passed
2	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Startup of Boiler. Initial cal
3	08/12/14 15:00:39	08/12/14 19:59:41	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Maintenance on CO2 system. Re-calibration.

Total Downtime in the Reporting Period = 7 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:23:52

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/14 23:00:37	07/14/14 23:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Replace air dryer, adjusted zero air, re-calibration of
2	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Unit start-up, initial cal
3	08/12/14 15:00:39	08/12/14 19:59:41	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Maintenance on CO2 system, re-calibration

Total Downtime in the Reporting Period = 7 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:23:54

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/14 23:00:37	07/14/14 23:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Replaced air dryer, adjusted zero air, re-calibration
2	07/19/14 21:00:31	07/19/14 21:59:31	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Unit start-up, auto-cal sequence
3	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Unit start-up, initial calibration
4	09/03/14 23:00:41	09/03/14 23:59:41	1	98=Automatic Calibration	3=Quality Assurance Calibrations	Unit start-up, followed MMP startup procedures

Total Downtime in the Reporting Period = 4 hours , Data Availability for this Reporting Period = 99.79 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:13

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO2 Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/14/14 23:00:37	07/14/14 23:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Replaced air dryer, adjusted zero air, re-calibration
2	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Unit start-up,initial calibration complete
3	08/12/14 15:00:39	08/12/14 19:59:41	5	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Replaced IR source,chopper motor, modem reboot,

Total Downtime in the Reporting Period = 7 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:23:57

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Flow Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:23:58

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, followed MMP procedures
2	08/18/14 08:00:39	08/18/14 10:59:37	3	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly cals
3	08/18/14 12:00:36	08/18/14 12:59:36	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed gas RATA
4	08/20/14 13:00:37	08/20/14 13:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Completed calibration
5	08/28/14 09:00:39	08/28/14 09:59:39	1	14=Recalibration	3=Quality Assurance Calibrations	Completed QA/QC - Span gas #6

Total Downtime in the Reporting Period = 7 hours , Data Availability for this Reporting Period = 99.63 %

Total Operating Time in the Reporting Period = 1870 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	07/19/14 21:00:31	07/19/14 21:59:31	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, followed MMP procedure
2	07/20/14 10:00:38	07/20/14 10:59:38	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, followed MMP procedure
3	08/18/14 08:00:39	08/18/14 10:59:37	3	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly QA/QC
4	08/18/14 12:00:36	08/18/14 12:59:36	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed RATA
5	08/20/14 13:00:37	08/20/14 13:59:37	1	14=Recalibration	3=Quality Assurance Calibrations	Completed calibration
6	08/28/14 09:00:39	08/28/14 09:59:39	1	14=Recalibration	3=Quality Assurance Calibrations	Completed QA/QC - Span gas 6
7	09/03/14 23:00:41	09/03/14 23:59:41	1	14=Recalibration	3=Quality Assurance Calibrations	Boiler Startup, followed MMP procedure

Total Downtime in the Reporting Period = 9 hours , Data Availability for this Reporting Period = 99.52 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:03

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration Periods	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/21/14 10:12:36	08/21/14 10:53:40	7	15=Preventative Maintenance	3=Quality Assurance Calibrations	Completed Quarterly Filter audit

Total Downtime in the Reporting Period = 7 Periods , Data Availability for this Reporting Period = 99.97 %

Total Operating Time in the Reporting Period = 20839 Periods

Report Printed on: 10/24/14 14:26:07

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/14/14 12:00:35	08/14/14 15:59:35	4	14=Recalibration	3=Quality Assurance Calibrations	Maintenance - replaced cooler, photomultiplier,
2	09/01/14 16:00:36	09/01/14 16:59:36	1	16=Primary Analyzer Malfunction	1=Monitor Equip Malfunctions	Replaced pump, initial cal

Total Downtime in the Reporting Period = 5 hours , Data Availability for this Reporting Period = 99.75 %

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:14

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:17

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO #/MMBTU CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:20

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler2

Parameter: CO #/HOUR CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	09/03/14 23:00:35	09/03/14 23:59:35	1	98=Automatic Calibration	3=Quality Assurance Calibrations	boiler Startup, followed MMP procedures

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:40

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO2 Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1987 hours

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Flow Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
						No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 hours , Data Availability for this Reporting Period = 100%

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:27

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet SO2 CEMS

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/18/14 10:00:32	08/18/14 10:59:32	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Quarterly QA/QC, Inlet Gas RATA

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:30

Downtime Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Inlet CO2 Analyzer

Data in the Reporting Period: 07/01/14 to 09/30/14

Incid. No.	Start Date	End Date	Duration hours	Reason (Monitoring Code)	EPA Downtime Category	Corrective Action
1	08/18/14 10:00:32	08/18/14 10:59:32	1	15=Preventative Maintenance	3=Quality Assurance Calibrations	Quarterly QA/QC, ran inlet gas RATA

Total Downtime in the Reporting Period = 1 hours , Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:33

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	08/06/14 18:54:33	08/06/14 18:59:33	1	16	Control Equip Problems	Baghouse bypass, air compressor	Air started, baghouse returned to service
2	08/09/14 15:36:35	08/09/14 15:47:38	2	48	Control Equip Problems	Baghouse bypass, high pressure	Stabilized system, returned baghouse to service

Total Duration in the Reporting Period = 3 Periods , Percentage of Operating Time above Excess Emission Limit = 0.01 %

Total Operating Time in the Reporting Period = 20480 Periods

Report Printed on: 10/24/14 14:41:08

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:20

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu Daily Ave.

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
1	07/19/14 00:00:59	07/19/14 23:59:59	3	1.6	0.7	Startup/Shutdown	Turbine Down Maint. Problems	When Maint is Complete will Start-Up

Total Duration in the Reporting Period = 3 hours , Percentage of Operating Time above Excess Emission Limit = 0.16 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:23

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:26

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:37

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boilers

Parameter: Total SO2 Tons

Limit: 6.45

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1996 hours

Report Printed on: 10/24/14 14:24:40

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/20/14 05:00:36	07/20/14 06:59:36	2	0.7	0.9	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedures
2	07/20/14 15:00:38	07/21/14 20:59:38	30	1.2	1.6	Startup/Shutdown	Turbine outage	Unit Startup, followed MMP procedures
3	08/27/14 04:00:35	08/28/14 03:59:38	24	0.4	0.4	Startup/Shutdown	Outage for boiler repair	Unit startup, followed MMP procedures
4	09/28/14 22:00:37	09/28/14 22:59:37	1	0.4	0.4	Startup/Shutdown	Annual Maintenance outage	Unit shutdown/startup, followed MMP

Total Duration in the Reporting Period = 57 hours , Percentage of Operating Time above Excess Emission Limit = 3.05 %

Total Operating Time in the Reporting Period = 1870 hours

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 1

Parameter: CO lb/hr 24-Hr Roll

Limit: 115.2

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/20/14 02:00:33	07/20/14 06:59:36	5	161.9	210.0	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedures
2	07/20/14 10:00:38	07/21/14 08:59:36	23	222.4	258.8	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedures
3	08/27/14 09:00:38	08/27/14 17:59:36	9	120.3	121.5	Startup/Shutdown	Boiler feedwater pump leak	Unit startup, followed MMP procedures

Total Duration in the Reporting Period = 37 hours , Percentage of Operating Time above Excess Emission Limit = 1.98 %

Total Operating Time in the Reporting Period = 1870 hours

Report Printed on: 10/24/14 14:24:47

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: Opacity

Limit: 10

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration Periods	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Periods

Total Operating Time in the Reporting Period = 20839 Periods

Report Printed on: 10/24/14 14:26:43

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: NOx lb/mmBtu 30-Day

Limit: 0.60

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:46

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu Daily Ave.

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission	Limit	EPA Category	Reason for Excess Emission	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:49

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 lb/mmBtu 30-Day

Limit: 0.5

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:26:53

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: SO2 Reduction 30-Day

Limit: 90

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
								No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 hours

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:27:03

Excess Emissions Report

Facility Name: T.E.S. Filer City Station

Location: Filer City, MI

Source: Boiler 2

Parameter: CO lb/mmBtu 24-Hr Roll

Limit: 0.3

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/20/14 15:00:32	07/21/14 20:59:37	30	0.6	0.8	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedure

Total Duration in the Reporting Period = 30 hours , Percentage of Operating Time above Excess Emission Limit = 1.51 %

Total Operating Time in the Reporting Period = 1987 hours

Report Printed on: 10/24/14 14:27:06

Excess Emissions Report

Facility Name: T.E.S. Filer City Station
Location: Filer City, MI
Source: Boiler 2
Parameter: CO lb/hr 24-Hr Roll
Limit: 115.2

Data in the Reporting Period: 07/01/14 to 09/30/14

Inc No.	Start Date	End Date	Duration hours	Emission Average	Emission Max	EPA Category	Reason for Incident	Corrective Action
1	07/20/14 14:00:32	07/21/14 06:59:35	17	139.4	161.7	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedure
2	09/04/14 05:00:36	09/04/14 09:59:37	5	120.4	125.2	Startup/Shutdown	Turbine outage	Unit startup, followed MMP procedures

Total Duration in the Reporting Period = 22 hours , Percentage of Operating Time above Excess Emission Limit = 1.11 %
Total Operating Time in the Reporting Period = 1987 hours

T.E.S. Filer City Station

Filer City, Michigan

3rd Quarter Opacity Results
2014

Report Prepared on: 19 September 2014

MECHANICAL SYSTEMS, INC.

480 Progress Way Sun Prairie, WI 53590 (608) 825-2055 FAX (608) 825-2295

RESULTS OF CALIBRATION ERROR TEST
FEDERAL REGISTER PART 60 APPENDIX B
PERFORMANCE SPECIFICATION 1
CONTINUOUS EMISSION MONITORING SYSTEMS
IN STATIONARY SOURCES

At

Units 1 and 2
T.E.S.
Filer City Generating Station
Filer City, Michigan.

Section 1: Introduction

Section 2: Certification Sheet

Section 3: Summary of Results

Section 4: Unit 1
- Calibration Error Test Results
- Data Acquisition Handling System Report

Section 5: Unit 2
- Calibration Error Test Results
- Data Acquisition Handling System Report

MECHANICAL SYSTEMS, INC.

480 Progress Way Sun Prairie, WI 53590 (608) 825-2055 FAX (608) 825-2295

INTRODUCTION

To comply with the Code of Federal Regulations Part 60, T.E.S. – Filer City Generating Station has retained the services of MSI/Mechanical Systems, Inc. to perform the Calibration Error Test on their Continuous Opacity Monitoring (COM) system on Unit 1 and 2. The Continuous Opacity Monitoring system is a Durag Model D-R 290 opacity monitor supplied and installed by MSI/Mechanical Systems, Inc.

The Calibration Error Test (CET) was completed on 21 August 2014 by an MSI technician. The CET was performed as described in the 40CFR60, Appendix B, Performance Specification 1

There are five sections to this report. Section 1 is an introduction page. Section 2 is a MSI/Mechanical Systems, Inc. certification statement. Section 3 is a summary of all test results. Section 4 has the quarterly calibration error test results. Section 5 contains the data acquisition handling system (DAHS) report. All system operating data has been supplied by the VIM Technology (VIM) data acquisition handling system (DAHS) or collected by MSI.

MSI

CERTIFICATION SHEET

Having supervised and worked on T.E.S. – Filer City Generating Station test program described in this report, and having written this report, I hereby certify the data, information, and results of the third quarter 2014 to be accurate and true according to the methods and procedures used.

Data collected under the supervision of others, if included in this report, is presumed to have been gathered in accordance with recognized standards.

MSI/MECHANICAL SYSTEMS, INC.

Performed by:

James Fanning
Field Service Technician

19 Sept. 14
Date

Reviewed by:

Roland E. Orzechowski
Field Service Manager

19 SEPT 14
Date

MSI

SUMMARY OF RESULTS
FEDERAL REGISTER PART 60 APPENDIX B
PERFORMANCE SPECIFICATION 1
CONTINUOUS EMISSION MONITORING SYSTEMS
IN STATIONARY SOURCES

Location: T.E.S.
Filer City Generating Station
Filer City, Michigan

Stack: Units 1 and 2

Instrument Manufacturer: Durag

Instrument Model: Model D-R 290

Instrument Serial Number: **Unit 1** - 425673
Unit 2 - 425674

Calibration Error Test: **Unit 1** Low - Range Allowed 3.0%, Actual: 0.30%
Mid - Range Allowed 3.0%, Actual: 0.25%
High - Range Allowed 3.0%, Actual: 0.62%

Calibration Error Test: **Unit 2** Low - Range Allowed 3.0%, Actual: 0.73%
Mid - Range Allowed 3.0%, Actual: 0.51%
High - Range Allowed 3.0%, Actual: 0.49%

Neutral Density Filter Serial Numbers: Low - VN49 Exp. Date - 29 April 2015
Mid - VN50 Exp. Date - 29 April 2015
High - VN51 Exp. Date - 29 April 2015

Certification of Neutral Density Filters performed by Opacity Certification Services, NC

Calibration Error Test was completed on 21 August 2014.

CALIBRATION ERROR TEST
UNIT 1 OPACITY – QUARTERLY

Person Conducting Test:	James Fanning	Analyzer Manufacturer:	Durag
Company:	MSI/Mechanical Systems, Inc.	Model/Serial #:	D-R 290 / 425673
Date:	21 Aug 2014	Location:	T.E.S.- Filer City, Michigan
Monitor Pathlength, L_1:	76 Inches	Emission Outlet Pathlength, L_2:	76 Inches
Monitoring System Output Path Length Corrected?	Yes:	No: X	Taper Ratio: 1.00

Actual Neutral:	Density	Opacity %:	Path Adjusted:	Density	Opacity %
Low Range:	0.08	16.50%	Low Range:	0.08	16.50%
Mid Range	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.60%	High Range:	0.26	45.60%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.50%	16.79%	-0.29%		
2-Mid	24.70%	24.91%		-0.21%	
3-High	45.60%	46.18%			-0.58%
4-Low	16.50%	16.80%	-0.30%		
5-Mid	24.70%	24.95%		-0.25%	
6-High	45.60%	46.18%			-0.58%
7-Low	16.50%	16.79%	-0.29%		
8-Mid	24.70%	24.91%		-0.21%	
9-High	45.60%	46.21%			-0.61%
10-Low	16.50%	16.77%	-0.27%		
11-Mid	24.70%	24.94%		-0.24%	
12-High	45.60%	46.19%			-0.59%
13-Low	16.50%	16.76%	-0.26%		
14-Mid	24.70%	24.94%		-0.24%	
15-High	45.60%	46.22%			-0.62%
Arithmetic Mean	(Equation 1-2)	X	0.28	0.23	0.60
Confidence Coefficient	(Equation 1-4)	CC	0.02	0.02	0.02
Calibration Error		X + CC	0.30%	0.25%	0.62%

Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station
Source: Boiler 1 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%) # 1	# 2	# 3	# 4	# 5	# 6	Calculated Average (%)	DAS 1-Min Average (%)	MC	Absolute Value of Difference
08/21/14 09:51:36	16.84	16.84	16.88	16.84	16.84	16.84	16.85	16.85	15	0.00
08/21/14 09:52:34	15.64	16.06	2.41	16.82	16.81	16.81	14.09	14.09	15	0.00
08/21/14 09:53:40	16.81	16.81	16.79	16.80	18.29	24.94	18.41	18.41	15	0.00
08/21/14 09:54:31	24.91	24.92	24.91	24.98	30.51	46.17	29.40	29.40	15	0.00
08/21/14 09:55:37	46.18	46.19	46.18	46.19	13.86	16.80	35.90	35.90	15	0.00
08/21/14 09:56:36	16.79	16.79	16.80	16.80	16.55	24.94	18.11	18.11	15	0.00
08/21/14 09:57:41	24.95	24.94	24.95	24.94	24.44	46.18	28.40	28.40	15	0.00
08/21/14 09:58:39	46.18	46.18	46.18	46.17	10.99	16.77	35.41	35.41	15	0.00
08/21/14 09:59:38	16.80	16.80	16.79	16.80	15.74	24.92	17.98	17.98	15	0.00
08/21/14 10:00:36	24.94	24.91	24.91	24.91	30.60	46.22	29.42	29.42	15	0.00
08/21/14 10:01:35	46.19	46.22	46.21	46.23	10.71	16.80	35.39	35.39	15	0.00
08/21/14 10:02:41	16.77	16.76	16.77	16.79	14.55	24.94	17.76	17.76	15	0.00
08/21/14 10:03:39	24.94	24.94	24.94	24.94	29.44	46.19	29.23	29.23	15	0.00
08/21/14 10:04:38	46.19	46.19	46.19	46.21	21.29	16.77	37.14	37.14	15	0.00
08/21/14 10:05:36	16.77	16.80	16.76	16.79	17.21	24.94	18.21	18.21	15	0.00
08/21/14 10:06:35	24.94	24.95	24.94	24.95	31.60	46.23	29.60	29.60	15	0.00
08/21/14 10:07:40	46.21	46.22	46.22	46.23	12.36	-0.29	32.83	32.83	15	0.00
08/21/14 10:08:38	-0.29	-0.29	-0.29	-0.26	-0.07	-0.19	-0.23	-0.23	15	0.00
08/21/14 10:09:37	30.68	31.19	1.90	1.84	1.74	1.87	11.54	11.54	15	0.00

MC - Monitoring Codes:

00 - System OK; Data is Valid
10 - Heavy Rains
11 - Excess Drift Primary Analyzer
12 - Excess Drift Ancillary Analyzer
13 - Process Down
14 - Recalibration
15 - Preventive Maintenance
16 - Primary Analyzer Malfunction
17 - Ancillary Analyzer Malfunction
18 - Data Handling System Malfunction
19 - Sample Interface Malfunction
20 - Corrective Maintenance
21 - Analyzer in Audit mode
98 - Automatic Calibration
99 - Software Adjust

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Report Printed on: 08/21/14 10:06:30

CALIBRATION ERROR TEST
UNIT 2 OPACITY – QUARTERLY

Person Conducting Test:	James Fanning	Analyzer Manufacturer:	Durag
Company:	MSI/Mechanical Systems, Inc.	Model/Serial #:	D-R 290 / 425674
Date:	21 Aug 2014	Location:	T.E.S.- Filer City, Michigan
Monitor Pathlength, L_1:	76 Inches	Emission Outlet Pathlength, L_2:	76 Inches
Monitoring System Output Path Length Corrected?	Yes:	No: X	Taper Ratio: 1.00

Actual Neutral:	Density	Opacity %:	Path Adjusted:	Density	Opacity %
Low Range:	0.08	16.50%	Low Range:	0.08	16.50%
Mid Range	0.12	24.70%	Mid Range:	0.12	24.70%
High Range:	0.26	45.60%	High Range:	0.26	45.60%

Run Number	Calibration Filter Value (Path Adjusted Percent Opacity)	Instrument Reading (Opacity), percent	Arithmetic Difference (opacity) percent		
			Low	Mid	High
1-Low	16.50%	17.18%	-0.68%		
2-Mid	24.70%	25.22%		-0.52%	
3-High	45.60%	46.07%			-0.47%
4-Low	16.50%	17.19%	-0.69%		
5-Mid	24.70%	25.19%		-0.49%	
6-High	45.60%	46.08%			-0.48%
7-Low	16.50%	17.19%	-0.69%		
8-Mid	24.70%	25.16%		-0.46%	
9-High	45.60%	46.04%			-0.44%
10-Low	16.50%	17.24%	-0.74%		
11-Mid	24.70%	25.16%		-0.46%	
12-High	45.60%	46.08%			-0.48%
13-Low	16.50%	17.16%	-0.66%		
14-Mid	24.70%	25.18%		-0.48%	
15-High	45.60%	46.04%			-0.44%
Arithmetic Mean	(Equation 1-2)	X	0.69	0.48	0.46
Confidence Coefficient	(Equation 1-4)	CC	0.04	0.03	0.03
Calibration Error		X + CC	0.73%	0.51%	0.49%

Opacity Data Summary Report

Facility Name: T.E.S. Filer City Station
Source: Boiler 2 Opacity

Location: Filer City, MI

Date/Time	10-Second Opacity Readings (%) # 1	# 2	# 3	# 4	# 5	# 6	Calculated Average (%)	DAS 1-Min Average (%)	MC	Absolute Value of Difference
08/21/14 10:36:37	17.18	17.18	17.18	17.18	17.17	17.18	17.18	Miss.	18	Miss.
08/21/14 10:37:35	17.18	15.65	25.21	25.22	25.21	25.22	22.28	Miss.	18	Miss.
08/21/14 10:38:36	24.91	46.06	46.06	46.07	46.05	46.07	42.54	Miss.	18	Miss.
08/21/14 10:39:37	46.06	17.19	17.21	17.19	17.17	17.18	22.00	Miss.	18	Miss.
08/21/14 10:40:38	17.21	19.14	25.19	25.19	25.19	25.19	22.85	Miss.	18	Miss.
08/21/14 10:41:37	25.19	46.07	46.07	46.08	46.07	46.08	42.59	Miss.	18	Miss.
08/21/14 10:42:38	46.08	14.84	17.19	17.19	17.19	17.23	21.62	Miss.	18	Miss.
08/21/14 10:43:44	17.23	17.26	25.18	25.16	25.18	25.16	22.53	Miss.	18	Miss.
08/21/14 10:44:39	25.17	42.99	46.05	46.04	46.06	46.08	42.07	Miss.	18	Miss.
08/21/14 10:45:38	46.09	14.85	17.23	17.24	17.23	17.22	21.64	Miss.	18	Miss.
08/21/14 10:46:40	16.24	22.00	25.16	25.16	25.15	25.19	23.15	Miss.	18	Miss.
08/21/14 10:47:36	25.16	43.11	46.08	46.08	46.05	46.08	42.09	Miss.	18	Miss.
08/21/14 10:48:36	46.08	16.00	17.19	17.16	17.16	17.19	21.80	Miss.	18	Miss.
08/21/14 10:49:36	17.19	16.60	25.17	25.18	25.16	25.16	22.41	Miss.	18	Miss.
08/21/14 10:50:36	25.17	38.48	46.05	46.04	46.04	46.08	41.31	Miss.	18	Miss.
08/21/14 10:51:40	46.08	0.03	0.03	-0.01	-0.01	-0.02	7.68	Miss.	18	Miss.
08/21/14 10:52:35	-0.04	-0.02	-0.03	0.01	-0.05	33.84	5.62	Miss.	18	Miss.

MC - Monitoring Codes:

00 - System OK; Data is Valid
10 - Heavy Rains
11 - Excess Drift Primary Analyzer
12 - Excess Drift Ancillary Analyzer
13 - Process Down
14 - Recalibration
15 - Preventive Maintenance
16 - Primary Analyzer Malfunction
17 - Ancillary Analyzer Malfunction
18 - Data Handling System Malfunction
19 - Sample Interface Malfunction
20 - Corrective Maintenance
21 - Analyzer in Audit mode
98 - Automatic Calibration
99 - Software Adjust

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Report Printed on: 08/21/14 10:42:33

Consumers Energy

A CMS Energy Company

Environmental Services

January 29, 2015

Mr. Shane Nixon
Michigan Department of Environmental Quality
Air Quality Division
120 W. Chapin Street
Cadillac, MI 49601-2158

SUBJECT: FOURTH QUARTER 2014 EMISSIONS MONITORING REPORT

Dear Mr. Nixon:

Enclosed is the Fourth Quarter 2014 emissions monitoring report for Boilers No. 1 and No. 2 at the T.E.S. Filer City Station (Renewable Operating Permit No. ROP MI-ROP-N1685-2008b). The report includes all information required under Federal Standards of Performance for New Stationary Sources (40 CFR 60, Subparts A, Da, and Appendix F).

This quarterly report contains the Excess Emissions Reports (EERs) and Summary Reports for Boilers No. 1 and No. 2. The report also includes the results of linearity tests conducted in accordance with 40 CFR Part 75, Appendices A and B (all outlet CEMS other than CO), and cylinder gas audits (CGAs) conducted in accordance with 40 CFR Part 60, Appendix F (inlet CEMS and outlet CO CEMS). The associated Certificates of Analysis for the calibration gases used in the linearity tests and CGAs are also included within this quarterly report.

In accordance with Section 4.7.2 of the C/D Waste Wood Monitoring Plan dated September 20, 2012, a quarterly report detailing the quantities and sampling results for C/D wood waste will only be submitted if such materials are received within the calendar quarter. No such materials were received during the 4th quarter 2014, so this quarterly report does not contain any information on C/D waste wood shipments.

It should be noted that the Data Acquisition and Handling System (DAHS) which supports the CEMS equipment was replaced in late September and early October of 2014. While the plant worked diligently with the DAHS Vendor (VIM Technologies, Inc.) to ensure that the DAHS was functioning properly when the units returned to service after the fall 2014 routine maintenance outage (October 2-3, 2014), a closer review of the data conducted when developing this quarterly emissions monitoring report and the 40 CFR Part 75 Electronic Data Reports resulted in the discovery of errors in some of the hourly data collected in October of 2014.

After correcting the hourly data errors during the week of January 26, 2015, it has come to our attention that the October 9, 2014 Excess Emissions Report which was filed for Boiler 1 CO emissions was not wholly accurate. Relative to the originally filed report, the corrected 1-hour data within the DAHS reflects the following changes:

- CO Emission Limit of 0.3 lb/mmBtu, 24-hour Rolling Average: No changes; the revised hourly CEMS data aligns with the originally reported data. However, please note that the CO_2 concentration for 9/28/14, Hour 22 was only 1.9%. If the diluent capping procedure in 40 CFR Part 75, Appendix F, Section 3.3.4.1 is employed, the associated hourly CO emission

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rate falls from 8.488 lb/mmBtu to 3.294 lb/mmBtu. The preceding change lowers the 24-hour rolling average CO lb/mmBtu emission rates substantially, with the maximum value falling from 0.488 lb/mmBtu to 0.271 lb/mmBtu (thus indicating that an exceedance did not actually occur).

- CO Emission Limit of 115.2 lbs/hr, 24-hour Rolling Average: The revised hourly CEMS data still reflects an exceedance of this CO emission limit starting 10/02/14, Hour 15:00 and extending through 10/03/14, Hour 22:00 (with a total duration of 24 boiler operating hours). However, the maximum 24-hour rolling average emission rate is now shown as 200.33 lbs/hr, while the average rate during the period of excess emissions is now shown as 161.08 lbs/hr.

Aside from impacting the previously submitted Excess Emissions Report for Boiler 1, the revised DAHS data now also shows an exceedance of the 24-hour daily average SO_2 emission limit of 0.7 lb/mmBtu that did not previously exist. This exceedance is associated with startup of Boiler 2, and the details are as follows:

- SO_2 Emission Limit of 0.7 lb/mmBtu, 24-hour Daily Average: The revised hourly CEMS data reflects an exceedance of this SO_2 emission limit on 10/03/14 (there were 6 boiler operating hours on this day, between 18:00 and 23:59). Based on the DAHS calculations, the maximum hourly emission rate was 2.174 lb/mmBtu and the daily average emission rate was 0.923 lb/mmBtu. Please note that for five of the six boiler operating hours on 10/03/14, CO_2 concentrations were less than 5.0%. If the diluent capping procedure in 40 CFR Part 75, Appendix F, Section 3.3.4.1 is employed, the maximum hourly emission rate falls to 1.391 lb/mmBtu and the daily average emission rate falls to 0.520 lb/mmBtu (thus indicating that an exceedance did not actually occur).

Please contact me at (517) 788-1467 or Mr. Richard Brown of TES Filer City Station at (231) 723-6573, Extension 103, if you have any questions or require further information concerning the contents of this quarterly report.

Sincerely,

Jason Prentice

Jason Prentice
Environmental Planner
Consumers Energy Company

cc: Karen Kajiya-Mills, MDEQ-AQD
Richard Brown, TES Filer City Station (Electronic Only)
Filer City Compliance File-Q, SA, A File

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY
AIR QUALITY DIVISION

RENEWABLE OPERATING PERMIT 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 Permit (ROP) 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 specified in Rule 213(3)(b)(ii), and be made available to the Department of Environmental Quality, Air Quality Division upon request.

Source Name T.E.S. Filer City Station County Manistee

Source Address P.O. Box 12 / 700 Mee Street City Filer City

AQD Source ID (SRN) N1685 ROP No. MI-ROP-N1685-2008b ROP Section No. N/A

Please check the appropriate box(es):

☐ **Annual Compliance Certification (Pursuant to Rule 213(4)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, this source was in compliance with **ALL** terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference. The method(s) used to determine compliance is/are the method(s) specified in the ROP.

☐ 2. During the entire reporting period this source was in compliance with all terms and conditions contained in the ROP, each term and condition of which is identified and included by this reference, **EXCEPT** for the deviations identified on the enclosed deviation report(s). The method used to determine compliance for each term and condition is the method specified in the ROP, unless otherwise indicated and described on the enclosed deviation report(s).

☐ **Semi-Annual (or More Frequent) Report Certification (Pursuant to Rule 213(3)(c))**

Reporting period (provide inclusive dates): From _____ To _____

☐ 1. During the entire reporting period, **ALL** monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred.

☐ 2. During the entire reporting period, all monitoring and associated recordkeeping requirements in the ROP were met and no deviations from these requirements or any other terms or conditions occurred, **EXCEPT** for the deviations identified on the enclosed deviation report(s).

☒ **Other Report Certification**

Reporting period (provide inclusive dates): From 10/01/2014 To 12/31/2014

Additional monitoring reports or other applicable documents required by the ROP are attached as described:

Boilers 1 and 2 Quarterly Report for the 4th Quarter of 2014 (October – December).

I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this report and the supporting enclosures are true, accurate and complete

Henry M. Hoffman	General Manager	231-723-6573
Name of Responsible Official (print or type)	Title	Phone Number

Henry M. Hoffman — 1-28-2015

Signature of Responsible Official — Date

* Photocopy this form as needed.

T.E.S. FILER CITY STATION

CONTINUOUS EMISSION MONITORING QUARTERLY REPORT

SUBPART Da
(NSPS SOURCES)

Year 2014
Report Period Ending: **March 31** ___ **June 30** ___ **Sept. 30** ___ **Dec. 31** X

I. GENERAL INFORMATION

1. Source: T.E.S. FILER CITY STATION

2. Address: 700 MEE STREET
   FILER CITY, MICHIGAN 49634

3. Plant Phone Number: (231) 723-6573

4. Affected Facility: BOILER #1 X BOILER #2 X

5. Control Device(s): GEESI/DRY FLUE GAS DESULFERIZATION SYSTEM
   GEESI/FABRIC FILTER BAGHOUSES

6. Fuel Type: Coal/Wood/TDF/Petroleum Coke/Construction & Demolition (C/D) Waste
   (NOTE: Although allowed by permit, C/D wastes were not fired during the quarter)

7. Person Completing Report

(Print) Jason M. Prentice

(Signature) Jason M. Prentice

(Date) 1-29-15

This is to certify that, to the best of my knowledge, the information provided on these forms is correct and accurate.

8. Person Responsible For Review and Integrity of Report:

(Print) Henry M. Hoffman

(Signature) Henry M. Hoffman

(Date) 1-28-2015

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 1 CO2	INLET # 2 CO2	STACK # 1 CO2	STACK # 2 CO2
1. MFG:	Durag, Inc.	Durag, Inc.	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]	T. E. I. [1]
2. MODEL NO:	D-R 290	D-R 290	43i	43i	43i	43i	42i	42i	48i	48i	410i	410i	410i	410i
3. SERIAL NO:	425692	425693	0622717879	0622717883	0622717877	0622717880	0623017966	0623017967	0622717887	0622717888	0622717873	0622717875	0622717869	0622717874
4. Basis for Gas Measurement (wet or dry)	N / A	N / A	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET	WET
5. F-Factor Used	N / A	N / A	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	$F_c \approx 1{,}800$ scf/mm Btu	N / A	N / A	N / A	N / A

[1] T. E. I. standards for Thermo Environmental Instruments, Inc.

6. F-Factor Method: Fuel Analyses and Method 19, Equation 19-15 and/or Method 19, Table 19-2. Please note that the fuel factors are unit specific and are based upon the relative amounts (on a heat input basis) of coal, wood, petroleum coke and tire-derived-fuel (TDF) that are fired within a given time period.

7. Ave. Time	6 Minute	6 Minute	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour	1 Hour
8. Zero/Span Values														
ZERO	0 %	0 %	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 PPM	0 %	0 %	0 %	0 %
SPAN	45 %	45 %	2,000 PPM	2,000 PPM	H: 1,500 PPM [1] L: 200 PPM [1]	H: 1,500 PPM [1] L: 200 PPM [1]	500 PPM	500 PPM	H: 3,000 PPM [2] L: 300 PPM [2]	H: 3,000 PPM [2] L: 300 PPM [2]	20.0 %	20.0 %	20.0 %	20.0 %

[1] The span values for the SO_2 Stack CEMS were revised from 2,000 ppm for the high span and 500 ppm for the low span just prior to the September 2008 Part 75 certification tests. The revised high and low span values were determined in accordance with sections 2.1.1.3 and 2.1.1.4 of Appendix A to 40 CFR Part 75.

[2] The historic span value for each of the CO Stack CEMS was 500 ppm (with a full scale of 2,050 ppm). In May of 2012, the plant implemented dual ranges for each CO CEMS, with a low range span value of 300 ppm and a high range span value of 3,000 ppm.

T.E.S. FILER CITY STATION

II. CONTINUOUS MONITOR OPERATIONAL DATA

	Monitoring System	RATA	7-Day Calibration Drift Test	Cycle-time Test	COMS Field Audit Test	COMS 168-hr Operational Test
9. Date of Last Performance Specification Test Passed	Boiler 1 Gas CEMS	08/19/2014	10/31/2006 (Stk SO_2 = 09/25/08)	10/18/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 1 COMS	N/A	N/A	N/A	08/21/2014	10/26/2006
	Boiler 2 Gas CEMS	08/20/2014	10/31/2006 (Stk SO_2 = 09/25/08)	10/23/2006 (Stk SO_2 = 10/03/08)	N/A	N/A
	Boiler 2 COMS	N/A	N/A	N/A	08/21/2014	11/01/2006

	# 1 OPACITY	# 2 OPACITY	INLET #1 SO2	INLET #2 SO2	STACK #1 SO2	STACK #2 SO2	STACK #1 NOx	STACK #2 NOx	STACK #1 CO	STACK #2 CO	INLET # 2 CO2	INLET # 2 CO2	STACK #1 CO2	STACK # 2 CO2
10. Modification Since Last PST Date (10-06; 9-08)	NONE	NONE	NONE	NONE	NONE (Changed high & low span vals in 2008)	NONE (Changed high & low span vals in 2008)	NONE	NONE	NONE (Went to dual range as of 5-2012)	NONE (Went to dual range as of 5-2012)	NONE	NONE	NONE	NONE
11. Emission Limits (Averaging Period)	10 % (6-Min)	10 % (6-Min)	N / A	N / A	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.7 lb/mm Btu (24-Hr) 0.5 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.6 lb/mm Btu (30-Day)	0.3 lb/mm Btu (24-Hour)	0.3 lb/mm Btu (24-Hour)	N / A	N / A	N / A	N / A

T.E.S. FILER CITY STATION

III. MONITORING AND COMPLIANCE SUMMARY (per 40 CFR 60.51a(h))

	YES	NO	REF.
1. Were the required continuous monitoring systems calibrated, span, and drift checks or other periodic audits performed as specified?	X		
2. Were the data used to show compliance obtained in accordance with approved methods and procedures of Subpart Da?	X		
3. Are the data representative of plant performance?	X		
4. Were the minimum data requirements met? If no, were they not met due to unavoidable errors?	X		
5. Was compliance with the standards achieved during the reporting period?		X	
Boiler #1			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour	X		
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	
Boiler #2			
SO_2 Stack Limit 0.7 lb/MMBTU 24 Hour		X	
SO_2 Stack Limit 0.5 lb/MMBTU 30 Day	X		
SO_2 90% Reduction 30 Day	X		
NO_x Stack Limit 0.6 lb/MMBTU 30 Day	X		
Opacity Limit >10% 6 Minute Average		X	

T.E.S. FILER CITY STATION

V. EXCESS EMISSION REPORT - SO_2 AND NO_x

SO_2 EVENTS (30 Day Rolling Average Limit of 0.5 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

SO_2 EVENTS (24 Hour Average Limit of 0.7 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
10/03/14	2	0.9	Boiler 2 was removed from service for a routine maintenance outage; during SU, the SO_2 dry scrubber had to be bypassed to pre-warm the baghouse & maintain the required minimum inlet temperature.	Followed the Maintenance Management Plan (MMP); boiler & baghouse were brought up to full operating temp. as quickly as possible; scrubber was placed into service per manufacturer recommendations.

SO_2 EVENTS (30 Day Rolling Average Limit of SO_2 Percent Reduction: Limit=90%)

Date(s) Occurred	Boiler No.	Value (% removal)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NO_x EVENTS (30 Day Rolling Average Limit of 0.60 lb/MMBTU)

Date(s) Occurred	Boiler No.	Value (lb/mm Btu)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

T.E.S. FILER CITY STATION

OPACITY EVENTS (Excess Emission Notification >10%, 6-Min. Average, for ≥ 2 Hours)

Date(s) Occurred	Boiler No.	Value (% opacity)	Cause	Corrective Action
None	1	N / A	N / A	N / A
None	2	N / A	N / A	N / A

NOTE: All six minute periods during which the average opacity exceeds 10% are identified in the attached monthly "Excess Emissions Report" for Boiler #1 and Boiler #2.

VI. QUALITY ASSURANCE DATA

1a. OUT-OF-CONTROL ASSESSMENT INFORMATION (Failed Quality Assurance Tests)

BOILER # 1

INLET CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717873	None	N / A	N / A

STACK CO2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717869	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717879	None	N / A	N / A

STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017966	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425692	None	N / A	N / A

2a. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #1

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3a. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 1 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1a of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of COMS and CEMS downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1a of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

1b. OUT-OF-CONTROL ASSESSMENT INFORMATION

BOILER # 2

INLET CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717875	None	N / A	N / A

STACK CO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 410i – 0622717874	None	N / A	N / A

INLET SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717883	None	N / A	N / A

STACK SO_2 METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 43i – 0622717880	None	N / A	N / A

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STACK NO_X METER

Meter	Date(s) Occurred	Description	Corrective Action
TEI 42i – 0623017967	None	N / A	N / A

OPACITY METER

Meter	Date(s) Occurred	Description	Corrective Action
D-R 290 – 425693	None	N / A	N / A

2b. Other operating days for which data has not been obtained (18 hrs) or excluded from calculation of average emission rates:

Boiler #2

Date(s) Occurred	Description	Corrective Action
None	N / A	N / A

3b. OUT-OF-CONTROL ASSESSMENT INFORMATION

Any Boiler 2 CEMS and COMS out-of-control (OOC) periods are generally associated with equipment replacements or excessive calibration drift (CD) error, and they are summarized in Section VI.1b of this report. During this quarter, there were no OOC periods associated with Cylinder Gas Audits (CGAs), Linearity Tests, Relative Accuracy Test Audits (RATAs) or CD error tests.

When applicable, the duration of each OOC period or other periods of COMS and CEMS downtime are summarized in the quarterly report document titled "Downtime Report". The information provided in Section VI.1b of this report provides a summary of the OOC period corrective actions. When required, the corrective actions result in the CDs (or relative accuracies) being within the allowed limits.

4. Full Scale Exceedance: Identification of times when pollutant concentration exceeds full span of the continuous monitoring system.

Date(s) Occurred	Boiler No.	Description	Corrective Action
None	1	N / A	N / A
None	2	N / A	N / A

TES FILER CITY STATION
AIR EMISSION SUMMARY

OCTOBER 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	41184 /	41208	99.94%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%	689.0 /	689.0	100.00%
YTD			99.98%			99.96%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	40698 /	40698	100.00%	666.0 /	672.0	99.11%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%	672.0 /	672.0	100.00%
YTD			99.99%			99.80%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

NOVEMBER 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43200 /	43200	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.98%			99.96%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	43194 /	43200	99.99%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%	720.0 /	720.0	100.00%
YTD			99.99%			99.82%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

DECEMBER 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			SULFUR DIOXIDE <30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			SULFUR DIOXIDE >90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			99.96%			100.00%			100.00%			100.00%
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
MONTH	44640 /	44640	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%	744.0 /	744.0	100.00%
YTD			99.99%			99.83%			100.00%			100.00%			100.00%

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

TES FILER CITY STATION
AIR EMISSION SUMMARY

4th QUARTER 2014

	OPACITY <6 MINUTE AVE OF 10 %			SULFUR DIOXIDE <24 HR AVE SO2 LIMIT OF 0.7 LB/MMBTU			<30 DAY AVE SO2 LIMIT OF 0.50 LB/MMBTU			>90% SO2 REDUCTION LIMIT 30 DAY AVE			NITROGEN OXIDES <30 DAY AVE NOX LIMIT OF 0.60 LB/MMBTU		
BOILER #1	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	**41184 /**	**41208**	**99.94%**	**689.0 /**	**689.0**	**100.00%**	**689.0 /**	**689.0**	**100.00%**	**689.0 /**	**689.0**	**100.00%**	**689.0 /**	**689.0**	**100.00%**
NOV	**43200 /**	**43200**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**
DEC	**44640 /**	**44640**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**
4th Quarter	**129024 /**	**129048**	**99.98%**	**2,153.0 /**	**2,153.0**	**100.00%**	**2,153.0 /**	**2,153.0**	**100.00%**	**2,153.0 /**	**2,153.0**	**100.00%**	**2,153.0 /**	**2,153.0**	**100.00%**
YTD			**99.99%**			**99.96%**			**100.00%**			**100.00%**			**100.00%**
BOILER #2	COMP MIN	TOT MIN	% IN COMP	COMP HRS	BLR FIRING HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP	COMP HRS	OP DAY HRS	% IN COMP
OCT	**40698 /**	**40698**	**100.00%**	**666.0 /**	**672.0**	**99.11%**	**672.0 /**	**672.0**	**100.00%**	**672.0 /**	**672.0**	**100.00%**	**672.0 /**	**672.0**	**100.00%**
NOV	**43194 /**	**43200**	**99.99%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**	**720.0 /**	**720.0**	**100.00%**
DEC	**44640 /**	**44640**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**	**744.0 /**	**744.0**	**100.00%**
4th Quarter	**128532 /**	**128538**	**100.00%**	**2,130.0 /**	**2,136.0**	**99.72%**	**2,136.0 /**	**2,136.0**	**100.00%**	**2,136.0 /**	**2,136.0**	**100.00%**	**2,136.0 /**	**2,136.0**	**100.00%**
YTD			**99.99%**			**99.83%**			**100.00%**			**100.00%**			**100.00%**

OPACITY MINUTES BASED ON TOTAL # OF MINUTES IN MONTH
24 HR SO2 LIMIT (0.7) HOURS BASED ON # HOURS DURING MONTH WHILE BOILER FIRING
ALL OTHER HOURS ARE BASED ON # OF BOILER OPERATING DAYS (AS DEFINED IN 40 CFR PART 60, SUBPART DA) TIMES 24

Unit 1 - Daily SO2 & NOx Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U1

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U1 CEMS_UNIT_ON			U1 CS_SO2_MASS		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS	TON	OS	MS
10/01/2014	0.000	OFF	GD	0.148	OFF	GD	93.63	OFF	GD	0.439	OFF	GD	0.00	OFF	GD	0.0	OFF	GD
10/02/2014	0.591	SU	GD	0.148	OFF	GD	93.63	OFF	GD	0.439	ON	GD	7.95	SU	GD	0.2	MD	IV
10/03/2014	0.374	SU	GD	0.148	ON	GD	93.63	ON	GD	0.439	ON	GD	21.32	SU	GD	0.6	SU	GD
10/04/2014	0.158	ON	GD	0.148	ON	GD	93.63	ON	GD	0.443	ON	GD	24.00	ON	GD	1.6	ON	GD
10/05/2014	0.187	ON	GD	0.150	ON	GD	93.57	ON	GD	0.444	ON	GD	24.00	ON	GD	1.9	ON	GD
10/06/2014	0.179	ON	GD	0.149	ON	GD	93.58	ON	GD	0.444	ON	GD	24.00	ON	GD	1.7	SU	GD
10/07/2014	0.135	ON	GD	0.148	ON	GD	93.62	ON	GD	0.445	ON	GD	24.00	ON	GD	1.2	SU	GD
10/08/2014	0.155	ON	GD	0.134	ON	GD	94.23	ON	GD	0.445	ON	GD	24.00	ON	GD	1.6	ON	GD
10/09/2014	0.187	ON	GD	0.134	ON	GD	94.22	ON	GD	0.448	ON	GD	24.00	ON	GD	2.1	ON	GD
10/10/2014	0.159	ON	GD	0.135	ON	GD	94.16	ON	GD	0.451	ON	GD	24.00	ON	GD	1.7	ON	GD
10/11/2014	0.173	ON	GD	0.137	ON	GD	94.06	ON	GD	0.453	ON	GD	24.00	ON	GD	2.1	ON	GD
10/12/2014	0.177	ON	GD	0.138	ON	GD	94.01	ON	GD	0.454	ON	GD	24.00	ON	GD	1.8	ON	GD
10/13/2014	0.134	ON	GD	0.138	ON	GD	93.99	ON	GD	0.456	ON	GD	24.00	ON	GD	1.4	ON	GD
10/14/2014	0.203	ON	GD	0.139	ON	GD	93.96	ON	GD	0.458	ON	GD	24.00	ON	GD	2.1	ON	GD
10/15/2014	0.221	ON	GD	0.141	ON	GD	93.91	ON	GD	0.459	ON	GD	24.00	ON	GD	2.3	ON	GD
10/16/2014	0.195	ON	GD	0.142	ON	GD	93.90	ON	GD	0.461	ON	GD	24.00	ON	GD	2.2	ON	GD
10/17/2014	0.202	SD	GD	0.142	ON	GD	93.90	ON	GD	0.461	ON	GD	23.23	SD	GD	2.2	SU	GD
10/18/2014	0.435	SU	GD	0.142	ON	GD	93.90	ON	GD	0.461	ON	GD	9.17	SU	GD	1.3	ON	GD
10/19/2014	0.116	ON	GD	0.139	ON	GD	94.01	ON	GD	0.462	ON	GD	24.00	ON	GD	1.4	ON	GD
10/20/2014	0.092	ON	GD	0.137	ON	GD	94.08	ON	GD	0.463	ON	GD	24.00	ON	GD	1.2	ON	GD
10/21/2014	0.144	ON	GD	0.137	ON	GD	94.07	ON	GD	0.464	ON	GD	24.00	ON	GD	1.9	ON	GD
10/22/2014	0.140	ON	GD	0.138	ON	GD	94.05	ON	GD	0.465	ON	GD	24.00	ON	GD	1.7	ON	GD
10/23/2014	0.156	ON	GD	0.138	ON	GD	94.08	ON	GD	0.466	ON	GD	24.00	ON	GD	1.7	ON	GD
10/24/2014	0.159	ON	GD	0.141	ON	GD	94.00	ON	GD	0.466	ON	GD	24.00	ON	GD	1.8	ON	GD
10/25/2014	0.121	ON	GD	0.141	ON	GD	94.03	ON	GD	0.467	ON	GD	24.00	ON	GD	1.5	ON	GD
10/26/2014	0.165	ON	GD	0.144	ON	GD	93.94	ON	GD	0.468	ON	GD	24.00	ON	GD	2.0	ON	GD
10/27/2014	0.111	ON	GD	0.143	ON	GD	94.00	ON	GD	0.467	ON	GD	24.00	ON	GD	1.3	ON	GD
10/28/2014	0.121	ON	GD	0.145	ON	GD	93.95	ON	GD	0.467	ON	GD	24.00	ON	GD	1.7	ON	GD

OS - Operating Status:

SU – startup mode
SD – shutdown mode
ON – normal operation
OFF – off-line
CF – changing fuels
CM – control equipment malfunction
CP – clean process equipment
CC – clean control equipment
MD – unknown operating status

MS - General Monitor Status:

GD – good data
GO – monitor over range
QA – quality assurance activity
MN – maintenance activity
IV – invalid
GC – conditional valid data

Report generated on: 01/28/2015 15:00

TESFiler0003034

Unit 1 - Daily SO2 & NOx Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U1

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U1 CEMS_UNIT_ON			U1 CS_SO2_MASS		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS	TON	OS	MS
10/29/2014	0.107	ON	GD	0.145	ON	GD	93.98	ON	GD	0.468	ON	GD	24.00	ON	GD	1.5	ON	GD
10/30/2014	0.168	ON	GD	0.148	ON	GD	93.89	ON	GD	0.468	ON	GD	24.00	ON	GD	1.8	ON	GD
10/31/2014	0.171	ON	GD	0.150	ON	GD	93.84	ON	GD	0.469	ON	GD	24.00	ON	GD	1.9	ON	GD
11/01/2014	0.174	ON	GD	0.152	ON	GD	93.80	ON	GD	0.471	ON	GD	24.00	ON	GD	2.1	ON	GD
11/02/2014	0.171	ON	GD	0.155	ON	GD	93.74	ON	GD	0.473	ON	GD	24.00	ON	GD	1.9	ON	GD
11/03/2014	0.129	ON	GD	0.156	ON	GD	93.21	ON	GD	0.475	ON	GD	24.00	ON	GD	1.6	ON	GD
11/04/2014	0.166	ON	GD	0.156	ON	GD	93.47	ON	GD	0.491	ON	GD	24.00	ON	GD	2.1	ON	GD
11/05/2014	0.179	ON	GD	0.157	ON	GD	93.48	ON	GD	0.490	ON	GD	24.00	ON	GD	2.0	ON	GD
11/06/2014	0.174	ON	GD	0.157	ON	GD	93.50	ON	GD	0.491	ON	GD	24.00	ON	GD	1.9	ON	GD
11/07/2014	0.166	ON	GD	0.156	ON	GD	93.56	ON	GD	0.492	ON	GD	24.00	ON	GD	1.9	ON	GD
11/08/2014	0.162	ON	GD	0.157	ON	GD	93.53	ON	GD	0.493	ON	GD	24.00	ON	GD	1.7	ON	GD
11/09/2014	0.156	ON	GD	0.157	ON	GD	93.55	ON	GD	0.494	ON	GD	24.00	ON	GD	1.6	ON	GD
11/10/2014	0.187	ON	GD	0.157	ON	GD	93.59	ON	GD	0.495	ON	GD	24.00	ON	GD	1.9	ON	GD
11/11/2014	0.150	ON	GD	0.157	ON	GD	93.64	ON	GD	0.494	ON	GD	24.00	ON	GD	1.6	ON	GD
11/12/2014	0.151	ON	GD	0.156	ON	GD	93.70	ON	GD	0.494	ON	GD	24.00	ON	GD	1.9	ON	GD
11/13/2014	0.165	ON	GD	0.156	ON	GD	93.72	ON	GD	0.494	ON	GD	24.00	ON	GD	1.7	ON	GD
11/14/2014	0.203	ON	GD	0.158	ON	GD	93.65	ON	GD	0.494	ON	GD	24.00	ON	GD	2.1	ON	GD
11/15/2014	0.234	ON	GD	0.159	ON	GD	93.62	ON	GD	0.493	ON	GD	24.00	ON	GD	2.3	ON	GD
11/16/2014	0.171	ON	GD	0.157	ON	GD	93.69	ON	GD	0.492	ON	GD	24.00	ON	GD	1.8	ON	GD
11/17/2014	0.157	ON	GD	0.156	ON	GD	93.73	ON	GD	0.492	ON	GD	24.00	ON	GD	1.8	ON	GD
11/18/2014	0.224	ON	GD	0.159	ON	GD	93.63	ON	GD	0.493	ON	GD	24.00	ON	GD	2.3	ON	GD
11/19/2014	0.160	ON	GD	0.161	ON	GD	93.60	ON	GD	0.493	ON	GD	24.00	ON	GD	1.8	ON	GD
11/20/2014	0.229	ON	GD	0.164	ON	GD	93.53	ON	GD	0.493	ON	GD	24.00	ON	GD	2.4	ON	GD
11/21/2014	0.246	ON	GD	0.168	ON	GD	93.41	ON	GD	0.494	ON	GD	24.00	ON	GD	2.5	ON	GD
11/22/2014	0.158	ON	GD	0.168	ON	GD	93.45	ON	GD	0.494	ON	GD	24.00	ON	GD	1.8	ON	GD
11/23/2014	0.115	ON	GD	0.166	ON	GD	93.53	ON	GD	0.493	ON	GD	24.00	ON	GD	1.5	ON	GD
11/24/2014	0.084	ON	GD	0.165	ON	GD	93.53	ON	GD	0.492	ON	GD	24.00	ON	GD	0.9	ON	GD
11/25/2014	0.098	ON	GD	0.163	ON	GD	93.57	ON	GD	0.492	ON	GD	24.00	ON	GD	1.0	ON	GD

OS - Operating Status:

SU – startup mode | OFF – off-line | CP – clean process equipment
SD – shutdown mode | CF – changing fuels | CC – clean control equipment
ON – normal operation | CM – control equipment malfunction | MD – unknown operating status

MS - General Monitor Status:

GD – good data | MN – maintenance activity
GO – monitor over range | IV – invalid
QA – quality assurance activity | GC – conditional valid data

Report generated on: 01/28/2015 15:00

TESFiler0003035

Unit 1 - Daily SO2 & NOx Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U1

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U1 CEMS_UNIT_ON			U1 CS_SO2_MASS		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS	TON	OS	MS
11/26/2014	0.068	ON	GD	0.161	ON	GD	93.61	ON	GD	0.492	ON	GD	24.00	ON	GD	0.7	ON	GD
11/27/2014	0.116	ON	GD	0.161	ON	GD	93.58	ON	GD	0.492	ON	GD	24.00	ON	GD	1.2	ON	GD
11/28/2014	0.091	ON	GD	0.161	ON	GD	93.54	ON	GD	0.492	ON	GD	24.00	ON	GD	1.0	ON	GD
11/29/2014	0.059	ON	GD	0.157	ON	GD	93.65	ON	GD	0.492	ON	GD	24.00	ON	GD	0.8	ON	GD
11/30/2014	0.086	ON	GD	0.154	ON	GD	93.72	ON	GD	0.491	ON	GD	24.00	ON	GD	0.9	ON	GD
12/01/2014	0.112	ON	GD	0.152	ON	GD	93.74	ON	GD	0.490	ON	GD	24.00	ON	GD	1.0	ON	GD
12/02/2014	0.066	ON	GD	0.149	ON	GD	93.79	ON	GD	0.490	ON	GD	24.00	ON	GD	1.0	ON	GD
12/03/2014	0.099	ON	GD	0.148	ON	GD	93.76	ON	GD	0.489	ON	GD	24.00	ON	GD	0.9	ON	GD
12/04/2014	0.100	ON	GD	0.145	ON	GD	93.83	ON	GD	0.489	ON	GD	24.00	ON	GD	1.1	ON	GD
12/05/2014	0.116	ON	GD	0.143	ON	GD	93.86	ON	GD	0.489	ON	GD	24.00	ON	GD	1.2	ON	GD
12/06/2014	0.084	ON	GD	0.140	ON	GD	93.94	ON	GD	0.489	ON	GD	24.00	ON	GD	1.9	ON	GD
12/07/2014	0.066	ON	GD	0.137	ON	GD	94.02	ON	GD	0.488	ON	GD	24.00	ON	GD	0.7	ON	GD
12/08/2014	0.083	ON	GD	0.134	ON	GD	94.09	ON	GD	0.488	ON	GD	24.00	ON	GD	0.7	ON	GD
12/09/2014	0.127	ON	GD	0.133	ON	GD	94.10	ON	GD	0.488	ON	GD	24.00	ON	GD	1.2	ON	GD
12/10/2014	0.105	ON	GD	0.131	ON	GD	94.13	ON	GD	0.488	ON	GD	24.00	ON	GD	1.1	ON	GD
12/11/2014	0.112	ON	GD	0.129	ON	GD	94.14	ON	GD	0.488	ON	GD	24.00	ON	GD	1.0	ON	GD
12/12/2014	0.115	ON	GD	0.128	ON	GD	94.14	ON	GD	0.488	ON	GD	24.00	ON	GD	1.2	ON	GD
12/13/2014	0.122	ON	GD	0.127	ON	GD	94.15	ON	GD	0.488	ON	GD	24.00	ON	GD	1.1	ON	GD
12/14/2014	0.107	ON	GD	0.124	ON	GD	94.25	ON	GD	0.488	ON	GD	24.00	ON	GD	1.1	ON	GD
12/15/2014	0.091	ON	GD	0.119	ON	GD	94.43	ON	GD	0.488	ON	GD	24.00	ON	GD	0.9	ON	GD
12/16/2014	0.112	ON	GD	0.117	ON	GD	94.47	ON	GD	0.488	ON	GD	24.00	ON	GD	1.1	ON	GD
12/17/2014	0.133	ON	GD	0.116	ON	GD	94.46	ON	GD	0.488	ON	GD	24.00	ON	GD	1.3	ON	GD
12/18/2014	0.123	ON	GD	0.113	ON	GD	94.56	ON	GD	0.488	ON	GD	24.00	ON	GD	1.3	ON	GD
12/19/2014	0.121	ON	GD	0.111	ON	GD	94.60	ON	GD	0.488	ON	GD	24.00	ON	GD	1.2	ON	GD
12/20/2014	0.097	ON	GD	0.107	ON	GD	94.71	ON	GD	0.487	ON	GD	24.00	ON	GD	0.9	ON	GD
12/21/2014	0.091	ON	GD	0.102	ON	GD	94.89	ON	GD	0.488	ON	GD	24.00	ON	GD	1.0	ON	GD
12/22/2014	0.084	ON	GD	0.099	ON	GD	94.97	ON	GD	0.488	ON	GD	24.00	ON	GD	0.7	ON	GD
12/23/2014	0.093	ON	GD	0.099	ON	GD	94.95	ON	GD	0.489	ON	GD	24.00	ON	GD	1.0	ON	GD

OS - Operating Status:

SU – startup mode | OFF – off-line | CP – clean process equipment
SD – shutdown mode | CF – changing fuels | CC – clean control equipment
ON – normal operation | CM – control equipment malfunction | MD – unknown operating status

MS - General Monitor Status:

GD – good data | MN – maintenance activity
GO – monitor over range | IV – invalid
QA – quality assurance activity | GC – conditional valid data

Report generated on: 01/28/2015 15:00

TESFiler0003036

Unit 1 - Daily SO2 & NOx Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U1

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U1 CEMS_UNIT_ON			U1 CS_SO2_MASS		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS	TON	OS	MS
12/24/2014	0.107	ON	GD	0.099	ON	GD	94.96	ON	GD	0.490	ON	GD	24.00	ON	GD	0.9	ON	GD
12/25/2014	0.126	ON	GD	0.100	ON	GD	94.92	ON	GD	0.489	ON	GD	24.00	ON	GD	1.4	ON	GD
12/26/2014	0.077	ON	GD	0.101	ON	GD	94.88	ON	GD	0.490	ON	GD	24.00	ON	GD	0.9	ON	GD
12/27/2014	0.097	ON	GD	0.100	ON	GD	94.94	ON	GD	0.490	ON	GD	24.00	ON	GD	1.0	ON	GD
12/28/2014	0.103	ON	GD	0.100	ON	GD	94.96	ON	GD	0.490	ON	GD	24.00	ON	GD	1.0	ON	GD
12/29/2014	0.109	ON	GD	0.102	ON	GD	94.87	ON	GD	0.491	ON	GD	24.00	ON	GD	1.0	ON	GD
12/30/2014	0.152	ON	GD	0.104	ON	GD	94.79	ON	GD	0.493	ON	GD	24.00	ON	GD	1.5	ON	GD
12/31/2014	0.161	ON	GD	0.106	ON	GD	94.73	ON	GD	0.495	ON	GD	24.00	ON	GD	1.6	ON	GD
Limit	0.700			0.500			90.00			0.600						6.5		

OS - Operating Status:

SU – startup mode | OFF – off-line | CP – clean process equipment
SD – shutdown mode | CF – changing fuels | CC – clean control equipment
ON – normal operation | CM – control equipment malfunction | MD – unknown operating status

MS - General Monitor Status:

GD – good data | MN – maintenance activity
GO – monitor over range | IV – invalid
QA – quality assurance activity | GC – conditional valid data

Data Summary Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U2

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U2 CEMS_UNIT_ON		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS
10/01/2014	0.000	OFF	GD	0.150	OFF	GD	92.80	OFF	GD	0.412	OFF	GD	0.00	OFF	GD
10/02/2014	0.000	OFF	GD	0.150	OFF	GD	92.80	OFF	GD	0.412	OFF	GD	0.00	OFF	GD
10/03/2014	0.923	SU	GD	0.150	ON	GD	92.80	ON	GD	0.412	ON	GD	6.00	SU	GD
10/04/2014	0.158	ON	GD	0.151	ON	GD	92.78	ON	GD	0.413	ON	GD	24.00	ON	GD
10/05/2014	0.176	ON	GD	0.151	ON	GD	92.80	ON	GD	0.414	ON	GD	24.00	ON	GD
10/06/2014	0.163	SU	GD	0.151	ON	GD	92.80	ON	GD	0.414	ON	GD	23.00	SU	GD
10/07/2014	0.218	SU	GD	0.151	ON	GD	92.80	ON	GD	0.414	ON	GD	18.77	SU	GD
10/08/2014	0.157	ON	GD	0.149	ON	GD	92.91	ON	GD	0.415	ON	GD	24.00	ON	GD
10/09/2014	0.220	ON	GD	0.152	ON	GD	92.80	ON	GD	0.414	ON	GD	24.00	ON	GD
10/10/2014	0.181	ON	GD	0.139	ON	GD	93.42	ON	GD	0.414	ON	GD	24.00	ON	GD
10/11/2014	0.239	ON	GD	0.141	ON	GD	93.33	ON	GD	0.416	ON	GD	24.00	ON	GD
10/12/2014	0.172	ON	GD	0.143	ON	GD	93.26	ON	GD	0.417	ON	GD	24.00	ON	GD
10/13/2014	0.142	ON	GD	0.142	ON	GD	93.33	ON	GD	0.417	ON	GD	24.00	ON	GD
10/14/2014	0.215	ON	GD	0.143	ON	GD	93.29	ON	GD	0.420	ON	GD	24.00	ON	GD
10/15/2014	0.259	ON	GD	0.147	ON	GD	93.14	ON	GD	0.423	ON	GD	24.00	ON	GD
10/16/2014	0.256	ON	GD	0.151	ON	GD	93.02	ON	GD	0.426	ON	GD	24.00	ON	GD
10/17/2014	0.246	SU	GD	0.154	ON	GD	92.93	ON	GD	0.428	ON	GD	24.00	SU	GD
10/18/2014	0.209	ON	GD	0.156	ON	GD	92.86	ON	GD	0.430	ON	GD	24.00	ON	GD
10/19/2014	0.174	ON	GD	0.155	ON	GD	92.91	ON	GD	0.433	ON	GD	24.00	ON	GD
10/20/2014	0.165	ON	GD	0.155	ON	GD	92.91	ON	GD	0.435	ON	GD	24.00	ON	GD
10/21/2014	0.236	ON	GD	0.158	ON	GD	92.78	ON	GD	0.439	ON	GD	24.00	ON	GD
10/22/2014	0.196	ON	GD	0.162	ON	GD	92.63	ON	GD	0.442	ON	GD	24.00	ON	GD
10/23/2014	0.189	ON	GD	0.163	ON	GD	92.63	ON	GD	0.445	ON	GD	24.00	ON	GD
10/24/2014	0.219	ON	GD	0.166	ON	GD	92.56	ON	GD	0.448	ON	GD	24.00	ON	GD
10/25/2014	0.183	ON	GD	0.168	ON	GD	92.53	ON	GD	0.450	ON	GD	24.00	ON	GD
10/26/2014	0.234	ON	GD	0.171	ON	GD	92.45	ON	GD	0.453	ON	GD	24.00	ON	GD
10/27/2014	0.141	ON	GD	0.172	ON	GD	92.45	ON	GD	0.453	ON	GD	24.00	ON	GD
10/28/2014	0.214	ON	GD	0.176	ON	GD	92.34	ON	GD	0.452	ON	GD	24.00	ON	GD

OS - Operating Status:

SU – startup mode | OFF – off-line | CP – clean process equipment
SD – shutdown mode | CF – changing fuels | CC – clean control equipment
ON – normal operation | CM – control equipment malfunction | MD – unknown operating status

MS - General Monitor Status:

GD – good data | MN – maintenance activity
GO – monitor over range | IV – invalid
QA – quality assurance activity | GC – conditional valid data

Report generated on: 01/28/2015 15:06

TESFiler0003038

Data Summary Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U2

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U2 CEMS_UNIT_ON		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS
10/29/2014	0.187	ON	GD	0.178	ON	GD	92.31	ON	GD	0.453	ON	GD	24.00	ON	GD
10/30/2014	0.188	ON	GD	0.181	ON	GD	92.24	ON	GD	0.453	ON	GD	24.00	ON	GD
10/31/2014	0.211	ON	GD	0.185	ON	GD	92.13	ON	GD	0.455	ON	GD	24.00	ON	GD
11/01/2014	0.244	ON	GD	0.190	ON	GD	91.99	ON	GD	0.456	ON	GD	24.00	ON	GD
11/02/2014	0.210	ON	GD	0.194	ON	GD	91.92	ON	GD	0.458	ON	GD	24.00	ON	GD
11/03/2014	0.194	ON	GD	0.198	ON	GD	91.86	ON	GD	0.459	ON	GD	24.00	ON	GD
11/04/2014	0.257	ON	GD	0.202	ON	GD	91.79	ON	GD	0.459	ON	GD	24.00	ON	GD
11/05/2014	0.232	ON	GD	0.205	ON	GD	91.71	ON	GD	0.461	ON	GD	24.00	ON	GD
11/06/2014	0.206	ON	GD	0.206	ON	GD	91.70	ON	GD	0.464	ON	GD	24.00	ON	GD
11/07/2014	0.217	ON	GD	0.208	ON	GD	91.65	ON	GD	0.467	ON	GD	24.00	ON	GD
11/08/2014	0.190	ON	GD	0.207	ON	GD	91.72	ON	GD	0.469	ON	GD	24.00	ON	GD
11/09/2014	0.165	ON	GD	0.206	ON	GD	91.77	ON	GD	0.471	ON	GD	24.00	ON	GD
11/10/2014	0.203	ON	GD	0.205	ON	GD	91.84	ON	GD	0.474	ON	GD	24.00	ON	GD
11/11/2014	0.181	ON	GD	0.205	ON	GD	91.87	ON	GD	0.476	ON	GD	24.00	ON	GD
11/12/2014	0.240	ON	GD	0.208	ON	GD	91.77	ON	GD	0.479	ON	GD	24.00	ON	GD
11/13/2014	0.175	ON	GD	0.207	ON	GD	91.81	ON	GD	0.480	ON	GD	24.00	ON	GD
11/14/2014	0.204	ON	GD	0.205	ON	GD	91.87	ON	GD	0.482	ON	GD	24.00	ON	GD
11/15/2014	0.224	ON	GD	0.204	ON	GD	91.89	ON	GD	0.483	ON	GD	24.00	ON	GD
11/16/2014	0.193	ON	GD	0.203	ON	GD	91.95	ON	GD	0.484	ON	GD	24.00	ON	GD
11/17/2014	0.200	ON	GD	0.202	ON	GD	92.03	ON	GD	0.485	ON	GD	24.00	ON	GD
11/18/2014	0.228	ON	GD	0.204	ON	GD	91.97	ON	GD	0.485	ON	GD	24.00	ON	GD
11/19/2014	0.201	ON	GD	0.205	ON	GD	91.98	ON	GD	0.485	ON	GD	24.00	ON	GD
11/20/2014	0.248	ON	GD	0.206	ON	GD	92.00	ON	GD	0.486	ON	GD	24.00	ON	GD
11/21/2014	0.250	ON	GD	0.208	ON	GD	91.96	ON	GD	0.485	ON	GD	24.00	ON	GD
11/22/2014	0.191	ON	GD	0.208	ON	GD	92.00	ON	GD	0.484	ON	GD	24.00	ON	GD
11/23/2014	0.194	ON	GD	0.207	ON	GD	92.03	ON	GD	0.484	ON	GD	24.00	ON	GD
11/24/2014	0.105	ON	GD	0.204	ON	GD	92.10	ON	GD	0.484	ON	GD	24.00	ON	GD
11/25/2014	0.092	ON	GD	0.199	ON	GD	92.24	ON	GD	0.483	ON	GD	24.00	ON	GD

OS - Operating Status:

SU – startup mode
SD – shutdown mode
ON – normal operation
OFF – off-line
CF – changing fuels
CM – control equipment malfunction
CP – clean process equipment
CC – clean control equipment
MD – unknown operating status

MS - General Monitor Status:

GD – good data
GO – monitor over range
QA – quality assurance activity
MN – maintenance activity
IV – invalid
GC – conditional valid data

Data Summary Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U2

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U2 CEMS_UNIT_ON		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS
11/26/2014	0.073	ON	GD	0.197	ON	GD	92.27	ON	GD	0.483	ON	GD	24.00	ON	GD
11/27/2014	0.106	ON	GD	0.194	ON	GD	92.34	ON	GD	0.483	ON	GD	24.00	ON	GD
11/28/2014	0.107	ON	GD	0.191	ON	GD	92.40	ON	GD	0.482	ON	GD	24.00	ON	GD
11/29/2014	0.107	ON	GD	0.188	ON	GD	92.45	ON	GD	0.481	ON	GD	24.00	ON	GD
11/30/2014	0.096	ON	GD	0.184	ON	GD	92.55	ON	GD	0.479	ON	GD	24.00	ON	GD
12/01/2014	0.086	ON	GD	0.179	ON	GD	92.67	ON	GD	0.478	ON	GD	24.00	ON	GD
12/02/2014	0.119	ON	GD	0.176	ON	GD	92.71	ON	GD	0.478	ON	GD	24.00	ON	GD
12/03/2014	0.068	ON	GD	0.172	ON	GD	92.79	ON	GD	0.477	ON	GD	24.00	ON	GD
12/04/2014	0.120	ON	GD	0.167	ON	GD	92.94	ON	GD	0.478	ON	GD	24.00	ON	GD
12/05/2014	0.119	ON	GD	0.164	ON	GD	93.01	ON	GD	0.478	ON	GD	24.00	ON	GD
12/06/2014	0.299	ON	GD	0.167	ON	GD	92.83	ON	GD	0.479	ON	GD	24.00	ON	GD
12/07/2014	0.072	ON	GD	0.162	ON	GD	92.98	ON	GD	0.479	ON	GD	24.00	ON	GD
12/08/2014	0.059	ON	GD	0.158	ON	GD	93.09	ON	GD	0.480	ON	GD	24.00	ON	GD
12/09/2014	0.108	ON	GD	0.156	ON	GD	93.12	ON	GD	0.482	ON	GD	24.00	ON	GD
12/10/2014	0.107	ON	GD	0.152	ON	GD	93.23	ON	GD	0.484	ON	GD	24.00	ON	GD
12/11/2014	0.093	ON	GD	0.149	ON	GD	93.28	ON	GD	0.486	ON	GD	24.00	ON	GD
12/12/2014	0.124	ON	GD	0.146	ON	GD	93.36	ON	GD	0.486	ON	GD	24.00	ON	GD
12/13/2014	0.097	ON	GD	0.143	ON	GD	93.44	ON	GD	0.487	ON	GD	24.00	ON	GD
12/14/2014	0.112	ON	GD	0.140	ON	GD	93.53	ON	GD	0.488	ON	GD	24.00	ON	GD
12/15/2014	0.084	ON	GD	0.135	ON	GD	93.70	ON	GD	0.488	ON	GD	24.00	ON	GD
12/16/2014	0.115	ON	GD	0.133	ON	GD	93.73	ON	GD	0.489	ON	GD	24.00	ON	GD
12/17/2014	0.133	ON	GD	0.130	ON	GD	93.80	ON	GD	0.490	ON	GD	24.00	ON	GD
12/18/2014	0.126	ON	GD	0.127	ON	GD	93.88	ON	GD	0.491	ON	GD	24.00	ON	GD
12/19/2014	0.121	ON	GD	0.124	ON	GD	93.95	ON	GD	0.493	ON	GD	24.00	ON	GD
12/20/2014	0.087	ON	GD	0.119	ON	GD	94.11	ON	GD	0.494	ON	GD	24.00	ON	GD
12/21/2014	0.099	ON	GD	0.114	ON	GD	94.29	ON	GD	0.495	ON	GD	24.00	ON	GD
12/22/2014	0.064	ON	GD	0.110	ON	GD	94.41	ON	GD	0.497	ON	GD	24.00	ON	GD
12/23/2014	0.100	ON	GD	0.107	ON	GD	94.53	ON	GD	0.498	ON	GD	24.00	ON	GD

OS - Operating Status:

SU – startup mode
SD – shutdown mode
ON – normal operation
OFF – off-line
CF – changing fuels
CM – control equipment malfunction
CP – clean process equipment
CC – clean control equipment
MD – unknown operating status

MS - General Monitor Status:

GD – good data
GO – monitor over range
QA – quality assurance activity
MN – maintenance activity
IV – invalid
GC – conditional valid data

Data Summary Report

Facility Name: T.E.S. Filer City | Location: Filer City, MI | Source: U2

	SO2 24-Hr			SO2 30-Day			SO2 Red 30-Day			NOx 30-Day			U2 CEMS_UNIT_ON		
	LBMMBTU	OS	MS	LBMMBTU	OS	MS	PCT	OS	MS	LBMMBTU	OS	MS	HR	OS	MS
12/24/2014	0.079	ON	GD	0.106	ON	GD	94.58	ON	GD	0.500	ON	GD	24.00	ON	GD
12/25/2014	0.158	ON	GD	0.108	ON	GD	94.48	ON	GD	0.502	ON	GD	24.00	ON	GD
12/26/2014	0.096	ON	GD	0.109	ON	GD	94.43	ON	GD	0.503	ON	GD	24.00	ON	GD
12/27/2014	0.106	ON	GD	0.109	ON	GD	94.45	ON	GD	0.503	ON	GD	24.00	ON	GD
12/28/2014	0.089	ON	GD	0.108	ON	GD	94.51	ON	GD	0.505	ON	GD	24.00	ON	GD
12/29/2014	0.084	ON	GD	0.107	ON	GD	94.56	ON	GD	0.507	ON	GD	24.00	ON	GD
12/30/2014	0.140	ON	GD	0.109	ON	GD	94.47	ON	GD	0.510	ON	GD	24.00	ON	GD
12/31/2014	0.154	ON	GD	0.111	ON	GD	94.41	ON	GD	0.513	ON	GD	24.00	ON	GD
Limit	0.700			0.500			90.00			0.600					

OS - Operating Status:

SU – startup mode
SD – shutdown mode
ON – normal operation
OFF – off-line
CF – changing fuels
CM – control equipment malfunction
CP – clean process equipment
CC – clean control equipment
MD – unknown operating status

MS - General Monitor Status:

GD – good data
GO – monitor over range
QA – quality assurance activity
MN – maintenance activity
IV – invalid
GC – conditional valid data

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - Opacity EPA Summary Report

Emission Limitation: 10.00

Analyzer Make/Model: Durag D-R 290

Analyzer Serial Number: 425692

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1 Opacity

Date of Last CEMS Certification or Audit: 8/21/2014

Total Source Operating Periods: 21508 Periods

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	74	0.34 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	74	0.34 % [2]

% Unavailable = CEMS Downtime during Source Operating Periods/Source Operating Periods x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	4	0.02 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	4	0.02 % [2]

% Excess Emissions = Total Excess Emission Periods/Source Operating Periods x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating periods or the total CMS downtime is 5 percent or greater of the total operating periods, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:38:11

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - NOx Rate EPA Summary Report

Emission Limitation: 0.600

Analyzer Make/Model: Thermo 42i

Analyzer Serial Number: 0623017966

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/19/2014

Total Source Operating Time in Reporting Period: 2153 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	7	0.33 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	7	0.33 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:38:05

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - SO2 Rate 24H EPA Summary Report

Emission Limitation: 0.700

Analyzer Make/Model: Thermo 43i

Analyzer Serial Number: 0622717877

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/19/2014

Total Source Operating Time in Reporting Period: 2153 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	7	0.33 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	7	0.33 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:38:20

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - SO2 Rate 30D EPA Summary Report

Emission Limitation: 0.500

Analyzer Make/Model: Thermo 43i

Analyzer Serial Number: 0622717877

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/19/2014

Total Source Operating Time in Reporting Period: 2153 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	7	0.33 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	7	0.33 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:38:27

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Combined Stack - SO2 Tons Daily EPA Summary Report

Emission Limitation: 6.5

Analyzer Make/Model:

Analyzer Serial Number:

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2167 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	1	0.05 %
3. Calibration/QA	1	0.05 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	2	0.09 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:37:33

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - CO Rate EPA Summary Report

Emission Limitation: 0.300

Analyzer Make/Model: Thermo 48i

Analyzer Serial Number: 0622717887

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/19/2014

Total Source Operating Time in Reporting Period: 2153 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	7	0.33 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	7	0.33 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	24	1.11 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	24	1.11 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:37:59

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 1 - CO Mass EPA Summary Report

Emission Limitation: 115.2

Analyzer Make/Model: Thermo 48i

Analyzer Serial Number: 0622717887

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 1

Date of Last CEMS Certification or Audit: 8/19/2014

Total Source Operating Time in Reporting Period: 2153 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	24	1.11 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	24	1.11 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:37:54

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - Opacity EPA Summary Report

Emission Limitation: 10.00

Analyzer Make/Model: Durag D-R 290

Analyzer Serial Number: 425693

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 2 Opacity

Date of Last CEMS Certification or Audit: 8/21/2014

Total Source Operating Periods: 21423 Periods

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	11	0.05 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	11	0.05 % [2]

% Unavailable = CEMS Downtime during Source Operating Periods/Source Operating Periods x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	1	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	1	0.00 % [2]

% Excess Emissions = Total Excess Emission Periods/Source Operating Periods x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating periods or the total CMS downtime is 5 percent or greater of the total operating periods, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:50:51

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - NOx Rate EPA Summary Report

Emission Limitation: 0.600

Analyzer Make/Model: Thermo 42i

Analyzer Serial Number: 0623017967

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 2

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2136 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:50:42

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - SO2 Rate 24H EPA Summary Report

Emission Limitation: 0.700

Analyzer Make/Model: Thermo 43i

Analyzer Serial Number: 0622717880

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 2

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2136 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	6	0.28 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	6	0.28 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:50:59

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - SO2 Rate 30D EPA Summary Report

Emission Limitation: 0.500

Analyzer Make/Model: Thermo 43i

Analyzer Serial Number: 0622717880

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St
Filer City, MI 49634

Process Unit Description: Unit 2

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2136 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:51:07

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - CO Rate EPA Summary Report

Emission Limitation: 0.300

Analyzer Make/Model: Thermo 48i

Analyzer Serial Number: 0622717888

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 2

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2136 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:50:37

Continuous Emission Monitor Quarterly Report Summary

Gaseous and Opacity Excess Emission and Monitoring System Performance

Pollutant: Unit 2 - CO Mass EPA Summary Report

Emission Limitation: 115.2

Analyzer Make/Model: Thermo 48i

Analyzer Serial Number: 0622717880

Reporting Period Dates: From 10/01/2014 to 12/31/2014 23:59:59

Company Name: T.E.S. Filer City

Address: 700 Mee St

Filer City, MI 49634

Process Unit Description: Unit 2

Date of Last CEMS Certification or Audit: 8/20/2014

Total Source Operating Time in Reporting Period: 2136 Hours

CMS Performance Summary

1. CEMS downtime in reporting period due to:	Duration	% Unavailable [1]
1. Monitor Equipment Malfunctions	0	0.00 %
2. Non-Monitor CEMS Equipment Malfunctions	0	0.00 %
3. Calibration/QA	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
2. Total CEMS Downtime	0	0.00 % [2]

% Unavailable = CEMS Downtime during Source Operating Time/Source Operating Time x 100

Emission Data Summary

1. Duration of excess emissions in reporting period due to:	Duration	% Excess Emissions [1]
1. Startup/Shutdown	0	0.00 %
2. Control Equipment Problems	0	0.00 %
3. Process Problems	0	0.00 %
4. Other Known Causes	0	0.00 %
5. Unknown Causes	0	0.00 %
6. Unit Offline	0	0.00 %
2. Total duration of excess emissions.....	0	0.00 % [2]

% Excess Emissions = Total Duration of Excess Emissions/Source Operating Time x 100

[1] For opacity, record all times in minutes. For gases, record all times in hours.

[2] For the reporting period: If the total duration of excess emissions is 1 percent or greater of the total operating time or the total CMS downtime is 5 percent or greater of the total operating time, both the summary report form and the excess emission report described in §60.7(c) shall be submitted.

Report Printed on: 01/28/2015 14:50:32

Unit 1 - Opacity Analyzer (%) Downtime, 6M Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1_OPA

Parameter: OPACITY

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Periods	Reason	EPA Downtime Category	Corrective Action
1	10/17/2014 13:24	10/17/2014 13:29	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
2	10/17/2014 13:42	10/17/2014 13:59	3	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
3	10/17/2014 14:06	10/17/2014 14:11	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
4	10/18/2014 22:48	10/19/2014 05:05	63	Automatic Calibration	Non-Monitor CEMS Equipment Malfunctions	Re-established auto-cal sequence
5	11/06/2014 13:48	11/06/2014 14:17	5	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
6	12/15/2014 15:18	12/15/2014 15:23	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation

Total Downtime in the Reporting Period = 74 Periods

Data Availability for this Reporting Period = 99.66 %

Total Operating Time in the Reporting Period = 21508 Periods

Report Printed on: 01/28/2015 14:35

Unit 1 - NOx Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: NOX_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action
1	10/18/2014 22:00	10/19/2014 04:59	7	Automatic Calibration	Non-Monitor CEMS Equipment Malfunctions	Re-established auto-cal sequence

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - SO2 Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: SO2_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action
1	10/18/2014 22:00	10/19/2014 04:59	7	Startup/shutdown	Non-Monitor CEMS Equipment Malfunctions	Re-established auto-cal sequence

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - CO Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: CO_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action
1	10/18/2014 22:00	10/19/2014 04:59	7	Automatic Calibration	Non-Monitor CEMS Equipment Malfunctions	Re-established auto-cal sequence

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - CO Mass (lb/hr) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: CO_MASS

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:34

Unit 1 - CO2 Analyzer (%) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: CO2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason
1	10/18/2014 22:00	10/19/2014 04:59	7	Automatic Calibration

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - Flow Analyzer (scfm) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: FLOW_SCFM

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason
1	10/18/2014 22:00	10/19/2014 04:59	7	Unknown Causes

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - Inlet SO2 Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: INLET_SO2_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason
1	10/18/2014 22:00	10/19/2014 04:59	7	Automatic Calibration

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 1 - Inlet CO2 Analyzer (%) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U1

Parameter: INLET_CO2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason
1	10/18/2014 22:00	10/19/2014 04:59	7	Automatic Calibration

Total Downtime in the Reporting Period = 7 Hours

Data Availability for this Reporting Period = 99.67 %

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:35

Unit 2 - Opacity Analyzer (%) Downtime, 6M Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2_OPA

Parameter: OPACITY

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Periods	Reason	EPA Downtime Category	Corrective Action
1	10/03/2014 17:42	10/03/2014 17:47	1	Startup/shutdown	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
2	10/17/2014 13:24	10/17/2014 13:29	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
3	10/17/2014 14:06	10/17/2014 14:17	2	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
4	11/06/2014 14:12	11/06/2014 14:41	5	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
5	11/17/2014 16:36	11/17/2014 16:41	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation
6	12/15/2014 15:18	12/15/2014 15:23	1	Missing Data	Non-Monitor CEMS Equipment Malfunctions	System check, validate operation

Total Downtime in the Reporting Period = 11 Periods

Data Availability for this Reporting Period = 99.95 %

Total Operating Time in the Reporting Period = 21423 Periods

Report Printed on: 01/28/2015 14:48

Unit 2 - NOx Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: NOX_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 16:08

Unit 2 - SO2 Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: SO2_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:48

Unit 2 - CO Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: CO_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:47

Unit 2 - CO Mass (lb/hr) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: CO_MASS

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason	EPA Downtime Category	Corrective Action

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:46

Unit 2 - CO2 Analyzer (%) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: CO2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:47

Unit 2 - Flow Analyzer (scfm) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: FLOW_SCFM

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason
1	10/04/2014 02:00	10/04/2014 04:59	3	Unknown Causes

Total Downtime in the Reporting Period = 3 Hours

Data Availability for this Reporting Period = 99.86 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:47

Unit 2 - Inlet SO2 Rate (lb/mmBtu) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: INLET_SO2_RT

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:48

Unit 2 - Inlet CO2 Analyzer (%) Downtime, 1H Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

Source: U2

Parameter: INLET_CO2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Incid. No.	Start Date	End Date	Duration Hours	Reason

No Incidents found in this Reporting Period

Total Downtime in the Reporting Period = 0 Hours

Data Availability for this Reporting Period = 100.00 %

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:47

Unit 1 - Opacity (%) Exceedance, 6M Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1_OPA
Parameter: OPACITY
Limit: 10.00

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	10/17/2014 23:24	10/17/2014 23:47	4	83.61	Control Equipment Problems	Baghouse Bypass - Atomizer Trip	Brought Baghouse back in service following established MMP

Total Duration in the Reporting Period = 4 Periods

Total Operating Time in the Reporting Period = 21508 Periods

Report Printed on: 01/28/2015 14:36

Unit 1 - NOx Rate (lb/mmBtu) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: NOX_RT
Limit: 0.600

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:36

Unit 1 - SO2 Rate (lb/mmBtu) Exceedance, 24H Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: SO2_RT
Limit: 0.700

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:36

Unit 1 - SO2 Rate (lb/mmBtu) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: SO2_RT
Limit: 0.500

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:37

Unit 1 - SO2 Reduction (%) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: SO2_REDUCTION
Limit: 90.00

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Periods

Total Operating Time in the Reporting Period = 90 Periods

Report Printed on: 01/28/2015 14:37

Combined Stack - SO2 Mass (tons) Exceedance, 1D Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: CS_SO2_MASS
Limit: 6.5

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2167 Hours

Report Printed on: 01/28/2015 14:36

Unit 1 - CO Rate (lb/mmBtu) Exceedance, 24H Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: CO_RT
Limit: 0.300

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	09/28/2014 22:00	10/04/2014 06:59	24	0.480	Startup/Shutdown	Startup	Boiler start-up, followed MMP procedures

Total Duration in the Reporting Period = 24 Hours

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:36

Unit 1 - CO Mass (lb/hr) Exceedance, 24H Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U1
Parameter: CO_MASS
Limit: 115.2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	10/02/2014 15:00	10/03/2014 22:59	24	161.08	Startup/Shutdown	Startup	Boiler start-up, followed MMP procedures

Total Duration in the Reporting Period = 24 Hours

Total Operating Time in the Reporting Period = 2153 Hours

Report Printed on: 01/28/2015 14:36

Excess Emissions Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2_OPA
Parameter: OPACITY
Limit: 10.00

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	11/04/2014 10:36	11/04/2014 10:41	1	56.25	Control Equipment Problems	Atomizer Changeout	Complete Atomizer changeout

Total Duration in the Reporting Period = 1 Periods

Total Operating Time in the Reporting Period = 21423 Periods

Report Printed on: 01/28/2015 14:49

Unit 2 - NOx Rate (lb/mmBtu) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: NOX_RT
Limit: 0.600

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:49

Unit 2 - SO2 Rate (lb/mmBtu) Exceedance, 24H Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: SO2_RT
Limit: 0.700

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action
1	10/03/2014 00:00	10/03/2014 23:59	6	0.92	Startup/Shutdown	Startup	

Total Duration in the Reporting Period = 1 Hours

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:49

Unit 2 - SO2 Rate (lb/mmBtu) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: SO2_RT
Limit: 0.500

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:49

Unit 2 - SO2 Reduction (%) Exceedance, 30D Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: SO2_REDUCTION
Limit: 90.00

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Periods	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Periods

Total Operating Time in the Reporting Period = 90 Periods

Report Printed on: 01/28/2015 14:49

Unit 2 - CO Rate (lb/mmBtu) Exceedance, 24H Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: CO_RT
Limit: 0.300

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:49

Unit 2 - CO Mass (lb/hr) Exceedance, 24H Roll Report

Facility Name: T.E.S. Filer City
Location: Filer City, MI
Source: U2
Parameter: CO_MASS
Limit: 115.2

Data in the Reporting Period: 10/01/2014 to 12/31/2014 23:59:59

Inc. No.	Start Date	End Date	Duration Hours	Emission Reading	EPA Category	Reason for Incident	Corrective Action

No Incidents found in this Reporting Period

Total Duration in the Reporting Period = 0 Hours

Total Operating Time in the Reporting Period = 2136 Hours

Report Printed on: 01/28/2015 14:49

IN Service 11-3-14

Out of Service 12-11-14

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MO 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E05NI82E15A0001	Reference Number:	32-400417550-1
Cylinder Number:	SG0814NB	Cylinder Volume:	154.6 Cubic Feet
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Sep 12, 2014

Expiration Date: Sep 12, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	425.0 PPM	425.9 PPM	G1	+/- 0.7% NIST Traceable	09/05/2014, 09/12/2014
SULFUR DIOXIDE	170.0 PPM	174.0 PPM	G1	+/- 0.9% NIST Traceable	09/05/2014, 09/12/2014
CARBON MONOXIDE	255.0 PPM	259.4 PPM	G1	+/- 1.0% NIST Traceable	09/12/2014
NITRIC OXIDE	425.0 PPM	425.9 PPM	G1	+/- 0.7% NIST Traceable	09/05/2014, 09/12/2014
CARBON DIOXIDE	17.00 %	16.94 %	G1	+/- 0.7% NIST Traceable	09/05/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060808	CC338359	241.0 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	May 13, 2017
PRM	12329	726612	25.02 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.5%	Oct 15, 2014
NTRM	12060312	CC353943	249.3 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Oct 26, 2017
NTRM	12061044	CC359541	500.7 PPM NITRIC OXIDE/NITROGEN	+/-0.50%	Feb 16, 2018
GMIS	A124199110104	CC323259	15.05 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Nov 08, 2016
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54 Nicolet 6700 CO2	FTIR	Aug 22, 2014
CO SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Aug 29, 2014
E/N 54 Nicolet 6700 NO	FTIR	Aug 29, 2014
E/N 54 Nicolet 6700 NO2	FTIR	Aug 15, 2014
E/N 54 Nicolet 6700 SO2	FTIR	Sep 11, 2014

Triad Data Available Upon Request

Approved for Release

TESFiler0003088

Airgas

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	LANSING		
Part Number:	E05NI94E15A0008	Reference Number:	32-400026874-1
Cylinder Number:	CC27079	Cylinder Volume:	147.2 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62011	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Nov 16, 2011

Expiration Date: Nov 16, 2015

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	50.00 PPM	49.39 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON MONOXIDE	75.00 PPM	74.49 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
NITRIC OXIDE	125.0 PPM	124.1 PPM	G1	+/- 1% NIST Traceable	11/09/2011, 11/16/2011
CARBON DIOXIDE	5.500 %	5.549 %	G1	+/- 1% NIST Traceable	11/09/2011
NITROGEN	Balance				
Total oxides of nitrogen		62.05 PPM		For Reference Only	

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	11060215	CC281048	49.67 PPM SULFUR DIOXIDE/NITROGEN		May 13, 2017
NTRM	09060503	CC280417	98.88 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Feb 01, 2013
NTRM	11060139	CC332059	248.4 PPM NITRIC OXIDE/NITROGEN		Jan 11, 2017
NTRM	9060606	CC413681	16.939 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Apr 10, 2013

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54, HCO2, Nicolet 6700	FTIR	Oct 28, 2011
E/N 173, 100ppmFS CO/N2, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Oct 27, 2011
E/N 54, 250ppmFS NO, Nicolet 6700	FTIR	Nov 11, 2011
E/N 54, LSO2, Nicolet 6700	FTIR	Nov 11, 2011

Triad Data Available Upon Request

Notes:

Approved for Release

TESFiler0003089

Airgas

2

Airgas USA, LLC
2009 BELLAIRE AVE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E05NI88E15A0016	Reference Number:	32-400332016-1
Cylinder Number:	CC403394	Cylinder Volume:	150.5 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,NO,SO2,BALN	Certification Date:	Mar 26, 2014

Expiration Date: Mar 26, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
NOX	275.0 PPM	274.8 PPM	G1	+/- 0.8% NIST Traceable	03/13/2014, 03/26/2014
SULFUR DIOXIDE	110.0 PPM	110.8 PPM	G1	+/- 1.0% NIST Traceable	03/13/2014, 03/26/2014
CARBON MONOXIDE	165.0 PPM	167.7 PPM	G1	+/- 1.0% NIST Traceable	03/18/2014
NITRIC OXIDE	275.0 PPM	274.8 PPM	G1	+/- 0.8% NIST Traceable	03/13/2014, 03/26/2014
CARBON DIOXIDE	11.00 %	11.00 %	G1	+/- 0.7% NIST Traceable	03/18/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12060209	CC350117	95.39 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	Jan 10, 2018
PRM	12329	726612	25.02 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.5%	Oct 15, 2014
NTRM	12062208	CC185822	97.56 PPM CARBON MONOXIDE/NITROGEN	+/-0.60%	May 25, 2018
NTRM	12061911	CC367452	250.8 PPM NITRIC OXIDE/NITROGEN	+/-0.52%	May 04, 2018
GMIS	A124199110104	CC323259	15.05 PPM NITROGEN DIOXIDE/NITROGEN	+/- 1.6%	Nov 08, 2016
NTRM	12061340	CC360798	11.002 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 11, 2018

The SRM, PRM or RGM noted above is only in reference to the GMIS used in the assay and not part of the analysis.

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
CO2 SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Mar 03, 2014
CO SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Mar 03, 2014
E/N 54 Nicolet 6700 MNO	FTIR	Mar 24, 2014
E/N 54, 4ppm FS NO2, Nicolet 6700	FTIR	Mar 24, 2014
E/N 54, L1SO2, Nicolet 6700	FTIR	Mar 24, 2014

Airgas

Airgas USA,
2009 BELLAIRE AVE
ROYAL OAK, MI 4806
(248) 399-8029
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E04NI94E15A0013	Reference Number:	32-400283236-1
Cylinder Number:	CC2626	Cylinder Volume.	147.3 CF
Laboratory.	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62013	Valve Outlet.	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date.	Nov 25, 2013

Expiration Date: Nov 25, 2021

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	500.0 PPM	498.4 PPM	G1	+/- 0.9% NIST Traceable	11/13/2013, 11/25/2013
CARBON MONOXIDE	750.0 PPM	746.6 PPM	G1	+/- 0.5% NIST Traceable	11/20/2013
CARBON DIOXIDE	5.500 %	5.514 %	G1	+/- 0.4% NIST Traceable	11/20/2013
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12060113	CC352228	499.3 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.8%	Jan 07, 2018
NTRM	11060341	CC341283	988.8 PPM CARBON MONOXIDE/NITROGEN	+/- 0.4%	Dec 13, 201
NTRM	10060134	CC307777	5.027 % CARBON DIOXIDE/NITROGEN	+/-0.4%	Nov 01, 20

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 173, HCO2, SIEMENS ULTRAMAT 6	Nondispersive Infrared(NDIR)	Nov 18, 2013
E/N 173, 1000ppmFS CO, Siemens Ultramat 6	Nondispersive Infrared (NDIR)	Nov 07, 2013
E/N 54, MSO2, Nicolet 6700	FTIR	Nov 13, 2013

Triad Data Available Upon Request

Notes:

Approved for Release

Airgas

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Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MI 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS
Grade of Product: EPA Protocol

Customer:	TES FILER CITY STATION		
Part Number:	E04NI88E15A1FJ0	Reference Number:	32-400332018-1
Cylinder Number:	CC7509	Cylinder Volume:	150.6 CF
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Mar 27, 2014

Expiration Date: Mar 27, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1100 PPM	1104 PPM	G1	+/- 1.2% NIST Traceable	03/13/2014, 03/27/2014
CARBON MONOXIDE	1650 PPM	1635 PPM	G1	+/- 1.0% NIST Traceable	03/19/2014
CARBON DIOXIDE	11.00 %	11.03 %	G1	+/- 1.0% NIST Traceable	03/19/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	12062604	CC366175	996.8 PPM SULFUR DIOXIDE/NITROGEN	+/- 0.5%	Jun 22, 2018
NTRM	00052509	SG9123836BAL	1985 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Aug 17, 2016
NTRM	12061340	CC360798	11.002 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 11, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
CO2 SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Mar 03, 2014
CO SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Mar 03, 2014
E/N 54, HSO2, Nicolet 6700	FTIR	Mar 24, 2014

Triad Data Available Upon Request

Notes:

Approved for Release

Airgas

IN SERVICE 10-20-14

OUT OF SERVICE 11-11-14

Airgas USA, LLC
2009 BELLAIRE AVENUE
ROYAL OAK, MO 48067
248-399-8020
www.airgas.com

CERTIFICATE OF ANALYSIS

Grade of Product: EPA Protocol

Part Number:	E04NI82E15A3LD7	Reference Number:	32-400403345-1
Cylinder Number:	CC168889	Cylinder Volume:	154.8 Cubic Feet
Laboratory:	MIC - Royal Oak-32 (SAP) - MI	Cylinder Pressure:	2015 PSIG
PGVP Number:	B62014	Valve Outlet:	660
Gas Code:	CO,CO2,SO2,BALN	Certification Date:	Aug 14, 2014

Expiration Date: Aug 14, 2022

Certification performed in accordance with "EPA Traceability Protocol for Assay and Certification of Gaseous Calibration Standards (May 2012)" document EPA 600/R-12/531, using the assay procedures listed. Analytical Methodology does not require correction for analytical interference. This cylinder has a total analytical uncertainty as stated below with a confidence level of 95%. There are no significant impurities which affect the use of this calibration mixture. All concentrations are on a volume/volume basis unless otherwise noted.

Do Not Use This Cylinder below 100 psig, i.e. 0.7 megapascals.

ANALYTICAL RESULTS

Component	Requested Concentration	Actual Concentration	Protocol Method	Total Relative Uncertainty	Assay Dates
SULFUR DIOXIDE	1700 PPM	1732 PPM	G1	+/- 1.1% NIST Traceable	08/07/2014, 08/14/2014
CARBON MONOXIDE	2550 PPM	2500 PPM	G1	+/- 1.0% NIST Traceable	08/14/2014
CARBON DIOXIDE	17.00 %	16.97 %	G1	+/- 0.9% NIST Traceable	08/07/2014
NITROGEN	Balance				

CALIBRATION STANDARDS

Type	Lot ID	Cylinder No	Concentration	Uncertainty	Expiration Date
NTRM	97040313	CC66853	2349 PPM SULFUR DIOXIDE/NITROGEN	+/- 1.0%	Oct 05, 2017
NTRM	12060739	CC356228	2498 PPM CARBON MONOXIDE/NITROGEN	+/- 0.6%	Dec 21, 2017
NTRM	12061521	CC354778	19.87 % CARBON DIOXIDE/NITROGEN	+/- 0.6%	Jan 27, 2018

ANALYTICAL EQUIPMENT

Instrument/Make/Model	Analytical Principle	Last Multipoint Calibration
E/N 54 Nicolet 6700 CO2	FTIR	Jul 21, 2014
CO SIEMENS ULTRAMAT 6 E/N 173	Nondispersive Infrared(NDIR)	Aug 12, 2014
E/N 54 Nicolet 6700 SO2	FTIR	Aug 12, 2014

Triad Data Available Upon Request

Approved for Release

TESFiler0003093

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

NOX U1 Audit Test Results Analyzer Span: 500.000 PPM

Mfr. & Model: Thermo 42I Serial Number: 0623017966

LOW-Level Calibration Gas
(20-30% of Span)
(100.000 PPM - 150.000 PPM)

Concentration: 124.100
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(250.000 PPM - 300.000 PPM)

Concentration: 274.800
Cylinder No.: C403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(400.000 PPM - 500.000 PPM)

Concentration: 425.900
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:30	126.800	08:36	274.800	08:42	420.900
Run 2	09:10	126.400	09:16	274.100	09:22	421.200
Run 3	09:40	126.200	09:46	274.500	09:52	424.300
Avg. Monitor Response		126.467		274.467		422.133
Linearity Error		1.91		0.12		0.88
Absolute Difference		2.367		0.333		3.767
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

SO2_L U1 Audit Test Results Analyzer Span: 200.000 PPM

Mfr. & Model: Thermo 43I Serial Number: 0622717877

LOW-Level Calibration Gas
(20-30% of Span)
(40.000 PPM - 60.000 PPM)

Concentration: 49.390
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(100.000 PPM - 120.000 PPM)

Concentration: 110.800
Cylinder No.: CC403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(160.000 PPM - 200.000 PPM)

Concentration: 174.000
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:30	51.000	08:36	111.200	08:42	171.300
Run 2	09:10	50.900	09:16	111.400	09:22	171.300
Run 3	09:40	50.800	09:46	111.900	09:52	171.400
Avg. Monitor Response		50.900		111.500		171.333
Linearity Error		3.06		0.63		1.53
Absolute Difference		1.510		0.700		2.667
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

SO2_H U1 Audit Test Results Analyzer Span: 2000.000 PPM

Mfr. & Model: Thermo 43I Serial Number: 0622717877

LOW-Level Calibration Gas
(20-30% of Span)
(400.000 PPM - 600.000 PPM)

Concentration: 498.400
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1000.000 PPM - 1200.000 PPM)

Concentration: 1104.000
Cylinder No.: CC7509
Expiration Date: 03/27/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(1600.000 PPM - 2000.000 PPM)

Concentration: 1732.000
Cylinder No.: CC168889
Expiration Date: 08/14/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	10:24	501.800	10:30	1096.000	10:36	1685.200
Run 2	10:55	504.800	11:01	1095.800	11:07	1696.000
Run 3	11:30	504.200	11:36	1100.200	11:42	1696.000
Avg. Monitor Response		503.600		1097.333		1692.400
Linearity Error		1.04		0.60		2.29
Absolute Difference		5.200		6.667		39.600
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

CGA Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

CO_L U1 Audit Test Results Analyzer Span: 300.000 PPM

Mfr. & Model: Thermo 48I Serial Number: 0622717887

LOW-Level Calibration Gas
(20-30% of Span)
(60.000 PPM - 90.000 PPM)

Concentration: 74.490
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(150.000 PPM - 180.000 PPM)

Concentration: 167.700
Cylinder No.: CC403394
Expiration Date: 3/26/2022

Test Date: 11/5/2014 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	08:30	75.300	08:36	167.400
Run 2	09:10	76.000	09:16	166.800
Run 3	09:40	76.700	09:46	168.800
Avg. Monitor Response		76.000		167.667
Calibration Error		2.03		0.02
Absolute Difference		1.510		0.033
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

CGA Test Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

CO_H U1 Audit Test Results

Analyzer Span: 3000.000 PPM

Mfr. & Model: Thermo 48I

Serial Number: 0622717887

LOW-Level Calibration Gas
(20-30% of Span)
(600.000 PPM - 900.000 PPM)

Concentration: 746.600
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1500.000 PPM - 1800.000 PPM)

Concentration: 1635.000
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	10:24	747.600	10:30	1649.100
Run 2	10:55	751.800	11:01	1649.100
Run 3	11:30	753.600	11:36	1650.900
Avg. Monitor Response		751.000		1649.700
Calibration Error		0.59		0.90
Absolute Difference		4.400		14.700
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

CO2 U1 Audit Test Results Analyzer Span: 20.000 PCT

Mfr. & Model: Thermo 410I Serial Number: 0622717869

LOW-Level Calibration Gas
(20-30% of Span)
(4.000 PCT - 6.000 PCT)

Concentration: 5.500
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(10.000 PCT - 12.000 PCT)

Concentration: 11.000
Cylinder No.: CC403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(16.000 PCT - 20.000 PCT)

Concentration: 16.940
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	08:30	5.600	08:36	11.000	08:42	17.000
Run 2	09:10	5.500	09:16	11.000	09:22	17.000
Run 3	09:40	5.600	09:46	11.000	09:52	17.000
Avg. Monitor Response		5.567		11.000		17.000
Linearity Error		1.22		0.00		0.35
Absolute Difference		0.067		0.000		0.060
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

CGA Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

INLET_SO2 U1 Audit Test Results Analyzer Span: 2000.000 PPM

Mfr. & Model: Termo 43I Serial Number: 0622717879

LOW-Level Calibration Gas
(20-30% of Span)
(400.000 PPM - 600.000 PPM)

Concentration: 498.400
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1000.000 PPM - 1200.000 PPM)

Concentration: 1104.000
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:24	509.600	15:30	1101.000
Run 2	16:02	507.600	16:08	1100.400
Run 3	16:26	507.000	16:32	1098.000
Avg. Monitor Response		508.067		1099.800
Calibration Error		1.94		0.38
Absolute Difference		9.667		4.200
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

CGA Test Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

INLET_CO2 U1 Audit Test Results

Mfr. & Model: Thermo 410I

Serial Number: 0622717873

LOW-Level Calibration Gas
(40-60% of Span)

Concentration: 5.514
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(80-100% of Span)

Concentration: 11.030
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	15:24	5.480	15:30	10.950
Run 2	16:02	5.480	16:08	10.920
Run 3	16:26	5.450	16:32	10.920
Avg. Monitor Response		5.470		10.930
Calibration Error		0.80		0.91
Absolute Difference		0.044		0.100
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

NOX U2 Audit Test Results Analyzer Span: 500.000 PPM

Mfr. & Model: Thermo 42I Serial Number: 0623017967

LOW-Level Calibration Gas
(20-30% of Span)
(100.000 PPM - 150.000 PPM)

Concentration: 124.100
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(250.000 PPM - 300.000 PPM)

Concentration: 274.800
Cylinder No.: CC403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(400.000 PPM - 500.000 PPM)

Concentration: 425.900
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:39	125.400	14:45	272.900	14:51	423.800
Run 2	16:10	126.800	16:16	275.000	16:22	422.400
Run 3	16:40	127.900	16:46	276.900	16:52	421.800
Avg. Monitor Response		126.700		274.933		422.667
Linearity Error		2.10		0.05		0.76
Absolute Difference		2.600		0.133		3.233
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

SO2_L U2 Audit Test Results Analyzer Span: 200.000 PPM

Mfr. & Model: Thermo 43I Serial Number: 0622717880

LOW-Level Calibration Gas
(20-30% of Span)
(40.000 PPM - 60.000 PPM)

Concentration: 49.380
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(100.000 PPM - 120.000 PPM)

Concentration: 110.800
Cylinder No.: CC403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(160.000 PPM - 200.000 PPM)

Concentration: 174.000
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:39	50.500	14:45	111.400	14:51	170.300
Run 2	16:10	51.300	16:16	111.700	16:22	171.000
Run 3	16:40	50.500	16:46	110.700	16:52	170.300
Avg. Monitor Response		50.767		111.267		170.533
Linearity Error		2.81		0.42		1.99
Absolute Difference		1.387		0.467		3.467
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

SO2_H U2 Audit Test Results Analyzer Span: 2000.000 PPM

Mfr. & Model: Thermo 43I Serial Number: 0622717880

LOW-Level Calibration Gas
(20-30% of Span)
(400.000 PPM - 600.000 PPM)

Concentration: 498.400
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1000.000 PPM - 1200.000 PPM)

Concentration: 1104.000
Cylinder No.: CC7509
Expiration Date: 03/27/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(1600.000 PPM - 2000.000 PPM)

Concentration: 1732.000
Cylinder No.: C168889
Expiration Date: 08/14/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	17:10	507.800	17:16	1102.000	17:22	1704.400
Run 2	17:40	508.200	17:46	1107.000	17:52	1703.600
Run 3	18:10	507.800	18:16	1102.200	18:22	1714.400
Avg. Monitor Response		507.933		1103.733		1707.467
Linearity Error		1.91		0.02		1.42
Absolute Difference		9.533		0.267		24.533
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

CGA Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

CO_L U2 Audit Test Results Analyzer Span: 300.000 PPM

Mfr. & Model: Thermo 48I Serial Number: 0622717888

LOW-Level Calibration Gas
(20-30% of Span)
(60.000 PPM - 90.000 PPM)

Concentration: 74.490
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(150.000 PPM - 180.000 PPM)

Concentration: 167.700
Cylinder No.: CC403394
Expiration Date: 3/26/2022

Test Date: 11/5/2014 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	14:39	73.500	14:45	167.300
Run 2	16:10	77.400	16:16	165.500
Run 3	16:40	77.500	16:46	164.100
Avg. Monitor Response		76.133		165.633
Calibration Error		2.21		1.23
Absolute Difference		1.643		2.067
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

CGA Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

CO_H U2 Audit Test Results Analyzer Span: 3000.000 PPM

Mfr. & Model: Thermo 48I Serial Number: 0622717888

LOW-Level Calibration Gas
(20-30% of Span)
(600.000 PPM - 900.000 PPM)

Concentration: 746.600
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1500.000 PPM - 1800.000 PPM)

Concentration: 1635.000
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	17:10	745.200	17:16	1631.400
Run 2	17:40	743.100	17:46	1630.200
Run 3	18:10	744.300	18:16	1631.100
Avg. Monitor Response		744.200		1630.900
Calibration Error		0.32		0.25
Absolute Difference		2.400		4.100
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

Linearity Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

CO2 U2 Audit Test Results Analyzer Span: 20.000 PCT

Mfr. & Model: Thermo 410I Serial Number: 0622717874

LOW-Level Calibration Gas
(20-30% of Span)
(4.000 PCT - 6.000 PCT)

Concentration: 5.549
Cylinder No.: CC27079
Expiration Date: 11/16/2015

MID-Level Calibration Gas
(50-60% of Span)
(10.000 PCT - 12.000 PCT)

Concentration: 11.000
Cylinder No.: CC403394
Expiration Date: 03/26/2022

HIGH-Level Calibration Gas
(80-100% of Span)
(16.000 PCT - 20.000 PCT)

Concentration: 16.940
Cylinder No.: SG0814NB
Expiration Date: 09/12/2022

Test Date: 11/05/2014 Tester: James Fanning

	Low		Mid		High	
	Time	Monitor Value	Time	Monitor Value	Time	Monitor Value
Run 1	14:39	5.500	14:45	11.000	14:51	16.900
Run 2	16:10	5.600	16:16	11.100	16:22	17.000
Run 3	16:40	5.600	16:46	11.100	16:52	17.000
Avg. Monitor Response		5.567		11.067		16.967
Linearity Error		0.32		0.61		0.16
Absolute Difference		0.018		0.067		0.027
Test Status		PASSED		PASSED		PASSED

$$\text{Linearity Error} = \frac{|\text{Cal. Gas Concentration} - \text{Avg. Monitor Response}| \times 100}{\text{Cal. Gas Concentration}}$$

Absolute Difference = | Cal. Gas Concentration - Avg. Monitor Response |

Acceptable results for a successful linearity test for NOx/SO2 analyzers: Linearity error <= 5.0% or Abs. Difference <= 5 ppm
Acceptable results for a successful linearity test for CO2/O2 analyzers: Linearity error <= 5.0% or Abs. Difference 0.5%
Acceptable results for a successful linearity test for Hg analyzers: Linearity error <= 10.0% or Abs. Difference <= 0.8 ug/scm

CGA Test Report

Facility Name: T.E.S. Filer City Location: Filer City, MI

INLET_SO2 U2 Audit Test Results Analyzer Span: 2000.000 PPM

Mfr. & Model: Thermo 43I Serial Number: 0622717883

LOW-Level Calibration Gas
(20-30% of Span)
(400.000 PPM - 600.000 PPM)

Concentration: 498.400
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(50-60% of Span)
(1000.000 PPM - 1200.000 PPM)

Concentration: 1104.000
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014 Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:00	497.600	09:06	1099.200
Run 2	09:26	503.200	09:32	1097.400
Run 3	09:56	505.600	10:02	1093.200
Avg. Monitor Response		502.133		1096.600
Calibration Error		0.75		0.67
Absolute Difference		3.733		7.400
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.

CGA Test Report

Facility Name: T.E.S. Filer City

Location: Filer City, MI

INLET_CO2 U2 Audit Test Results

Mfr. & Model: Thermo 410I

Serial Number: 0622717875

LOW-Level Calibration Gas
(40-60% of Span)

Concentration: 5.514
Cylinder No.: CC2626
Expiration Date: 11/25/2021

MID-Level Calibration Gas
(80-100% of Span)

Concentration: 11.030
Cylinder No.: CC7509
Expiration Date: 3/27/2022

Test Date: 11/5/2014

Tester: James Fanning

	Low		Mid	
	Time	Monitor Value	Time	Monitor Value
Run 1	09:00	5.500	09:06	10.930
Run 2	09:26	5.390	09:32	11.080
Run 3	09:56	5.500	10:02	11.020
Avg. Monitor Response		5.463		11.010
Calibration Error		0.92		0.18
Absolute Difference		0.051		0.020
Test Status		PASSED		PASSED

$$\text{CGA Error} = \frac{\text{Avg. Monitor Response - Cal. Gas Concentration X 100}}{\text{Cal. Gas Concentration}}$$

Acceptable results for a successful CGA Audit are +/- 15% average audit value or +/- 5 PPM, whichever is greater.