

COMPLIANCE TEST REPORT

for

QUARTERLY HYDROGEN CHLORIDE (HCL) EMISSIONS

EU-BOILER6-SC

(SRN: B2796)

4th Quarter 2021

St Clair Power Plant China Twp, Michigan

December 10, 2021

Prepared By: Environmental Management & Safety Ecology, Monitoring, and Remediation Group DTE Corporate Services, LLC 7940 Livernois Ave, G4-S Detroit, MI 48210



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EXECUTIVE SUMMARY

DTE Energy's Environmental Management and Safety (EM&S) Ecology, Monitoring, and Remediation Group performed 4th Quarter – 2021 Hydrogen Chloride (HCl) emissions testing on the exhaust of EU-BOILER6-SC at the St Clair Power Plant, located in China Township, Michigan. Testing is required by 40 CFR Part 63, Subpart UUUUU (Mercury and Air Toxics Standards - MATS) to document quarterly HCl stack emissions. Testing was conducted on December 10, 2021.

A summary of the emission test results is shown below:

Emissions Testing Summary St Clair Power Plant EU-BOILER6-SC

		(GMW)	(lbs/MmBtu) ⁽¹⁾ 0.0003
EU-BOILER6-SC	12-10-21	219	

(1) MATS Limit 0.0020 lbs/MMBtu



1.0 INTRODUCTION

DTE Energy's Environmental Management and Safety (EM&S) Ecology, Monitoring, and Remediation Group performed 4th Quarter – 2021 Hydrogen Chloride (HCl) emissions testing on the exhaust of EU-BOILER6-SC at the St Clair Power Plant, located in China Township, Michigan. Testing was required by the 40 CFR Part 63, Subpart UUUUU (Mercury and Air Toxics Standards - MATS) to document quarterly HCl stack emissions. The testing was conducted on December 10, 2021.

The fieldwork was performed in accordance with EPA Reference Methods and DTE Energy Intent to Test¹, which was approved in a letter by Mr. Mark Dziadosz from the Michigan Department of Environmental Quality (MDEQ), dated January 20, 2017². The following DTE Energy personnel participated in the testing program: Mr. Thomas Snyder, Senior Environmental Specialist, and Mr. Fred Meinecke, Environmental Specialist. Mr. Snyder was the project leader. Mr. Dominic Vendittelli, Environmental Engineer at the plant, provided process coordination for the testing program.

2.0 SOURCE DESCRIPTION

The St Clair Power Plant (SCPP) located at 4901 Pointe Drive in East China, Michigan, employs the use of four (4) coal-fired boilers (Units 2-3, 6, and 7). Units 2-3 each have Babcock and Wilcox boilers capable of producing 1,070,000 pounds per hour of steam. Units 2 and 3 are equipped with Allis Chalmers turbine generators each with a nominally rated capability of 170 megawatts (MW). Full load capability for Units 2-3, while firing coal only, are 135 MW and, 150 MW while over-firing with oil.

Units 6 and 7 have Combustion Engineering boilers capable of producing 2,100,000 and 3,580,000 pounds of steam per hour respectively. The turbine generators on each unit were manufactured by Westinghouse and have a nominally rated capability of 325 and 500 megawatts respectively. Full load capability for Units 6 and 7 while firing coal only is approximately 315 MW and 470 MW respectively.

The air pollution control equipment on Units 2-3 consists of Wheelebrator Frye electrostatic precipitators on each unit that have design collection efficiencies of 99.6%. Each exhaust stack is 599 feet tall with an internal diameter of 13.3 feet. The air pollution control equipment on Unit 6 consists of Research Corporation electrostatic precipitators that have design collection efficiencies of 99.6%. The exhaust stack is 425 feet tall with an internal diameter of 19.0 feet. The air pollution control equipment on Unit 7 consists of an American Standard electrostatic precipitator that has design

¹ Test Plan, Submitted October 2, 2020. (Attached-Appendix A)

² Approval Letter, dated January 13, 2017. (Attached-Appendix A)



collection efficiency of 99.6%. The exhaust stack is 600 feet tall with an internal diameter of 16.0 feet

Each boiler is equipped with a Dry Sorbent Injection (DSI) and Activated Carbon Injection (ACI) air quality control system. The DSI system is used to control acid gas, PM, PM10, PM2.5, and NOx emissions from each unit. Trona is received at the plant where inline mills further refine the Trona. The ACI system is used to control Mercury emissions from each unit.

Testing was performed on EU-BOILER6-SC while operating at maximum normal operating load and representative of site specific normal operating conditions per 40 CFR part 63.10007.

3.0 SAMPLING AND ANALYTICAL PROCEDURES

DTE Energy obtained emissions measurements in accordance with procedures specified in the USEPA *Standards of Performance for New Stationary Sources* or listed as an approved *"Other Test Method"*. The sampling and analytical methods used in the testing program are indicated in the table below:

Sampling Method	Parameter	Analysis
USEPA Method 4	Moisture Content	Field data analysis and reduction
USEPA Method 26A	Hydrogen Chloride	Ion Chromatography
USEPA Method 19	Emission Rate Calculations	Stoichiometric Calculations

3.1 MOISTURE DETERMINATION (USEPA METHOD 4)

3.1.1 Sampling Method

Determination of the moisture content of the exhaust gas was performed using the method described in USEPA Method 4, "Determination of Moisture Content in Stack Gases". The exhaust gas condensate was collected in glass impingers and the percentage of moisture was derived from calculations outlined in USEPA Method 4 as a component of the HCl sampling train.



3.2 HYDROGEN CHLORIDE (USEPA Method 26A)

3.2.1 HCl Sampling Method

USEPA Method 26A, "Determination of Hydrogen Halide and Halogen Emissions" was used to measure the Hydrochloric Acid (HCl) emissions (see Figure 2 for a schematic of the sampling train). Method 26A uses impingers containing $0.1N H_2SO_4$ to capture the HCl. Triplicate, 60-minute test runs were conducted. Method 26A sampling was performed as a single point sample per Method 26 procedures.

The Method 26A stack sampling system (Figure 2) consisted of the following:

- (1) Heated glass-lined probe (Maintained 248 $^{\circ}F > T > 273 ^{\circ}F$)
- (2) Heated 3" glass filter holder with a PTFE filter (maintained at a temperature of 248 °F > T > 273 °F)
- (3) Set of impingers for the collection HCl and condensate for moisture determination (Impingers containing 0.1N H₂SO₄)
- (4) Length of sample line
- (5) Environmental Supply[®] control case equipped with a pump, dry gas meter, and calibrated orifice.

After completion of each run, a leak test was conducted. All the impingers were measured for moisture gain. The contents of impingers 1 and 2 were collected in a designated sample container. Impingers 1 and 2, the back half of the filter holder, the Z-fitting connecting the filter holder to the first impinger, and the U-tube between the first and second impingers were then rinsed with DI water and collected in the same sample container. Each container was labeled with the test number, test location, test date, and the level of liquid marked on the outside of the container. Immediately after recovery, the sample containers were placed in a cooler for storage.

Collected field blanks consisted of a $0.1N H_2SO_4$ solution blank. 200ml of $0.1N H_2SO_4$ was collected and diluted with DI water, from the same bottle used in sample recovery, to the liquid level of the three test runs. The blank was collected and analyzed following the same procedures used to recover and analyze the field samples.

Analysis of the Method 26A samples and blanks were conducted by Enthalpy Analytical. All analysis followed the procedures listed in USEPA Method 26A. A complete laboratory report is in Appendix E.

Field data sheets for the Method 26A sampling are in Appendix B.



3.2.2 Quality Control and Assurance

All sampling and analytical equipment was calibrated per the guidelines referenced in EPA Method 5 and 26A.

3.2.3 Data Reduction

HCl emissions data collected during the testing were calculated and reported as parts per million (ppm) and pounds per million Btu (lb/MMBtu). CO_2 data from the Unit CEMS was used in conjunction with Method 19 to calculate emissions in lb/MMbtu for comparison to the emission limits.

Analysis of the Method 26A samples and blanks were conducted by Enthalpy Analytical. All analyses followed the procedures listed in USEPA Method 26A. A complete laboratory report is in Appendix E.

Field data sheets for the Method 26A sampling are in Appendix B.

4.0 OPERATING PARAMETERS

The test program included the collection of boiler load and stack emissions CEMs data during each test run. Parameters recorded included gross Megawatts (GMW), CO_2 (%), NOx (ppm), SO₂ (ppm), and opacity (%). Additionally, dry sorbent injection rates (DSI) and activated carbon injection rates (ACI), in pounds per hour (lb/hr), are reported. Operational Data collected during the testing is presented in Appendix C.

HCl emissions testing was performed at normal operating load and representative of site specific normal operating conditions according to 40 CFR part 63.10007.

5.0 DISCUSSION OF RESULTS

Table 1 presents the HCl emission testing results from EU-BOILER6-SC. HCl emissions are presented in parts per million on a wet basis (ppm_w) and pounds per million BTU (lbs/MMBtu). The EU-BOILER6-SC HCl emissions during the testing demonstrated an average HCl concentration of 0.16 ppmw and 0.0003 lb/MMBtu. The average EU-BOILER6-SC HCl emissions were within the Subpart UUUUU limit of 0.0020 lb/MMBtu.

The auxiliary test data presented in the results table for each test includes the unit load in gross megawatts (GMW), DSI Injection rate (lb/hr), ACI injection rate (lb/hr), and CO_2 concentration ($%_{wet}$).



JAN 18 2022

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6.0 <u>CERTIFICATION STATEMENT</u>

"I certify that I believe the information provided in this document is true, accurate, and complete. Results of testing are based on the good faith application of sound professional judgment, using techniques, factors, or standards approved by the Local, State, or Federal Governing body, or generally accepted in the trade."

Mr. Thomas Snyder, QSTI

This report prepared by:

Mr. Thomas Snyder, QSTI Sr. Environmental Specialist, Ecology, Monitoring, and Remediation Environmental Management and Safety DTE Energy Corporate Services, LLC

This report reviewed by:

<u>Mark Grigereit</u>

Mr. Mark Grigereit, QSTI Principal Engineer, Ecology, Monitoring, and Remediation Environmental Management and Safety DTE Energy Corporate Services, LLC



RESULTS TABLES



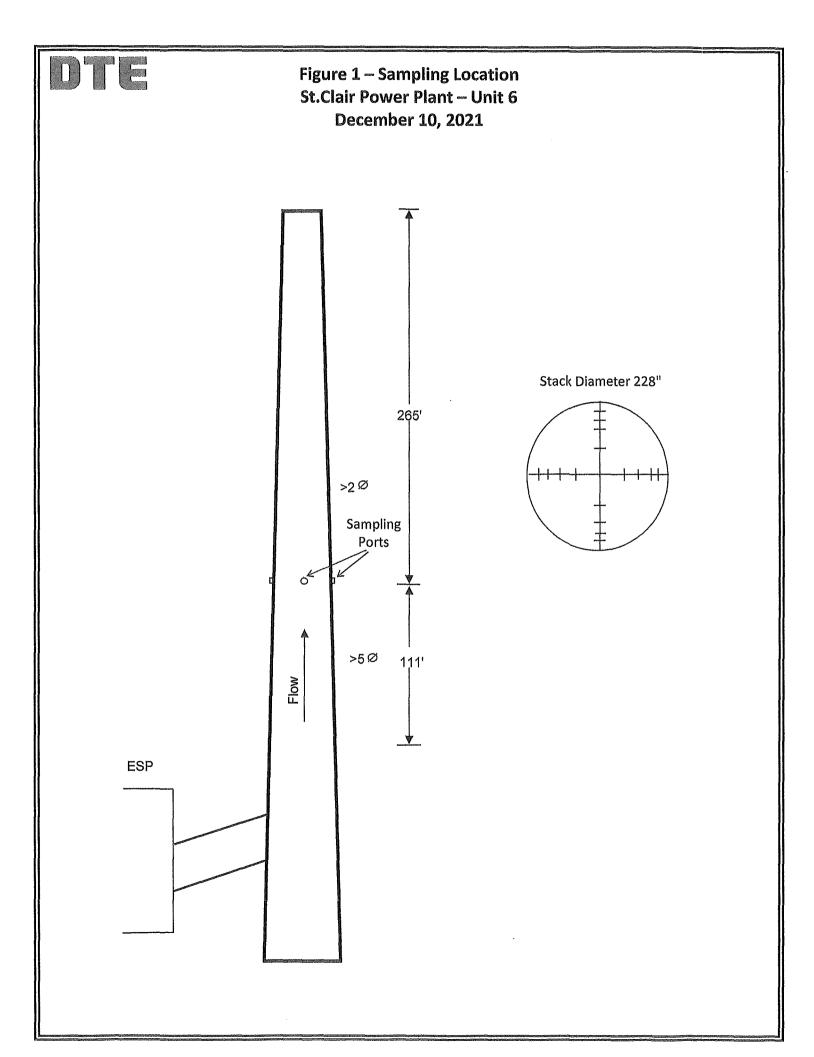
TABLE NO. 1 HYDROGEN CHLORIDE EMISSIONS TESTING RESULTS St Clair Power Plant - Unit 6 December 10, 2021

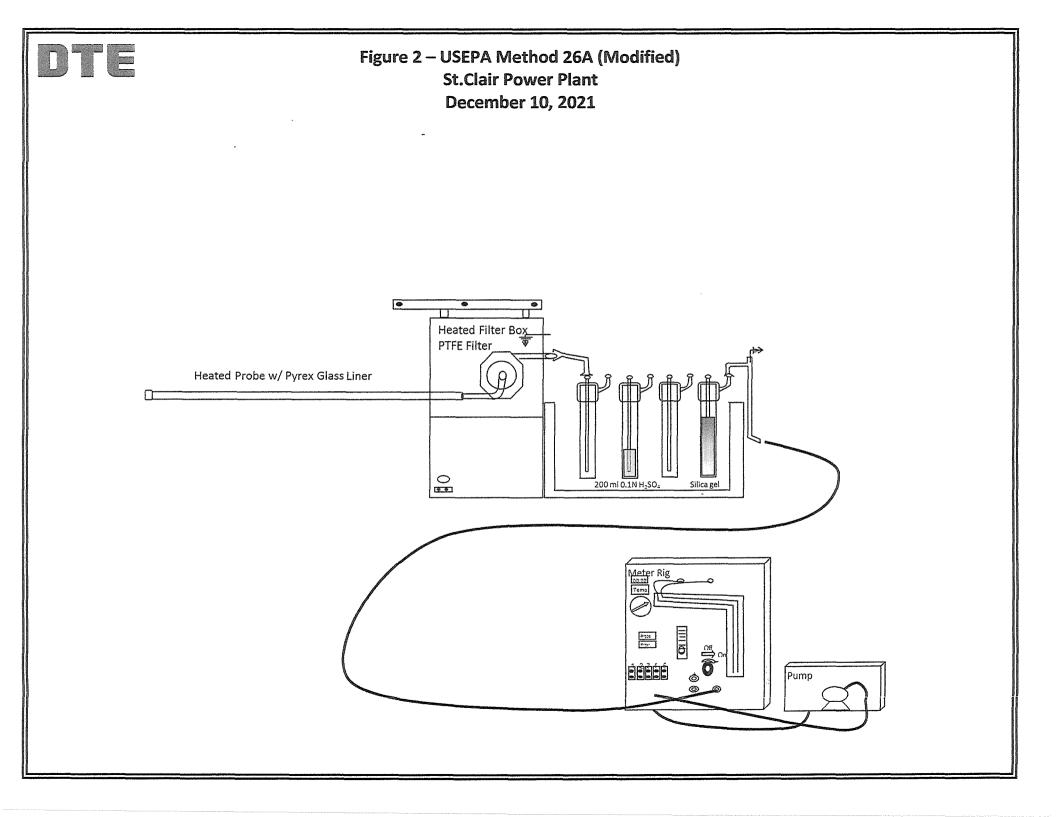
Test	Test Date	Test Time	Unit Load (GMW)	DSI Injection Rate (Ib/hr)	ACI Injection Rate (Ib/hr)	CO ₂ Concentration (%)	HCI Concentration (ppmv)	HCl Emissions (lbs/MMBtu) ⁽¹⁾
HCI-1	10-Dec-21	7:39-8:39	219	1249	135	9.7	0.18	0.0003
HCI-2		8:51-9:51	219	1246	116	9.8	0.15	0.0003
HCI-3		10:06-11:06	<u>219</u>	<u>1249</u>	<u>116</u>	<u>9.8</u>	<u>0.16</u>	0.0003
	Averaae:		219	1248	122	9.8	0.16	0.0003

(1) MATS Limit = 0.0020 lb/MMBtu



FIGURES







APPENDIX A

TEST PLAN AND APPROVAL LETTER



STATE OF MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY LANSING



C. HEIDI GRETHER DIRECTOR

January 13, 2017

Mr. Thomas Snyder DTE Energy 6100 West Warren Avenue Room H136 Detroit, Michigan 48210

Dear Mr. Snyder:

SUBJECT: St. Clair Power Plant, Quarterly Hydrogen Chloride Emission Testing; SRN: B2796

The Michigan Department of Environmental Quality (MDEQ), Air Quality Division, has reviewed the protocol for hydrogen chloride testing on Boilers 1-4, 6 & 7 at the St. Clair Power Plant. This testing is required to be performed quarterly by 40CFR Part 63 Subpart UUUUU.

The boilers will be tested for hydrogen chloride in accordance with ASTM D6348 or single point non-isokinetic Method 26A. Carbon dioxide will be tested in accordance with 40CFR Part 60, Appendix A, Method 3A, or by using an FTIR in accordance with Methods 3A and Alt-004. Emissions will be reported as pounds per million Btu (lb/MMBtu) using Method 19.

A minimum of once per year each unit will be tested at maximum load while firing a blend with a minimum of 30% eastern coal. The remaining quarterly testing may be performed with the boiler at normal operating load. The following process data will be recorded during testing:

- Boiler MW, DSI and ACI rate
- Type of coal or coal blend fired
- Continuous emission monitor and continuous opacity monitor data
- Analysis of the daily fuel sample and F-factor calculation

The test report will include:

- the initial and system nitrogen purge, ethylene transfer standard, hydrogen chloride direct injection and dynamic spikes, and run data and averages
- FTIR data validation report
- all pre-test and post-test meter box calibration, pitot tube calibration, and field data sheets
- the gas analyzer calibration error, system blas, zero and calibration drift data, run data and run averages, all in tabular format
- all laboratory data including quality control audits
- the process data listed above

All aborted or failed runs must be included in the report.

Mr. Thomas Snyder Page 2 January 13, 2017

A complete copy of the test report should be sent to:

Mr. Francis Lim Department of Environmental Quality Air Quality Division 27700 Donald Court Warren, Michigan 48092-2793 Ms. Karen Kajiya-Mills Department of Environmental Quality Air Quality Division Constitution Hall, 2nd Floor South PO Box 30260 Lansing, MI 48909-7760

This protocol is approved for the testing on Boiler 1-3 scheduled for the week of January 9, 2017, and for all subsequent quarterly hydrogen chloride testing on the boilers at the St. Clair Power Plant. Please provide notification of testing by email to Mr. Francis Lim of the Southeast Michigan District Office, <u>LIMF@michigan.gov</u>, and Ms. Karen Kajiya-Mills of the Technical Programs Unit, <u>kajiya-millsk@michigan.gov</u>, 7-14 days prior to each test. If you have any questions regarding this letter, please contact me by telephone or e-mail at <u>gaslolit@michigan.gov</u>.

Sincerely,

To. Joslel

Tom Gasloli Technical Programs Unit Field Operations Section Air Quality Division 517-284-6778

cc: Mr. Joseph Neruda, DTE Energy Ms. Joyce Zhu, MDEQ Mr. Francis Lim, MDEQ October 2, 2020



Attn: Compliance Tracker, ECA-18J Air Enforcement and Compliance Assurance Branch U.S. Environmental Protection Agency - Region 5 77 W. Jackson Boulevard Chicago, Illinois 60604

Subject: Test Plan for MATS quarterly hydrogen chloride (HCl) compliance emissions testing of the EU-BOILERS-SC (Boilers 2-3, 6 & 7) at the DTE Electric, St. Clair Power Plant (SRN: B2796) in East China, Michigan.

To whom it may concern,

DTE Energy's Environmental Management & Safety (EM&S) Field Services Group is pleased to provide the following Test Plan for Mercury and Air Toxics Standard (MATS) (40 CFR Part 63, Subpart UUUUU) quarterly HCl compliance emissions testing of four coalfired boilers (Units 2-3, 6 & 7) located at the St. Clair Power Plant, in East China, Michigan. The purpose of this document is to provide the required testing information and to notify the United States Environmental Protection Agency (EPA) and Michigan Department of Environment, Great Lakes, & Energy (EGLE) of the upcoming testing. The 1st quarter of 2021 HCl testing is tentatively scheduled for the following days:

Unit 2 - February 9th, 2021 Unit 3 - February 2nd, 2021 Unit 6 - March 18th, 2021 Unit 7 - March 23rd, 2021

Going forward we request that this letter serve as the Test Plan for all 2021 quarterly HCl testing. We intend to notify the EGLE a minimum of 7 days prior to all quarterly HCl emissions testing on each unit at St. Clair Power Plant.

What follows is an item-by-item description of the information required by the EGLE for testing approval. If you have any questions, please contact Mr. Thomas via email at <u>Thomas.Snyder@dteenergy.com</u>.

Sincerely, DTE ENERGY CORPORATE SERVICES, LLC

Jason Logan, QSTI Environmental Specialist, Environmental Field Services Environmental Management & Safety (EM&S) DTE Energy Corporate Services, LLC

Cc: Mr. Dominic Vendittelli, DTE EM&S Ms. Karen Kajiya-Mills, EGLE



JAN 18 2022

AIR QUALITY DIVISION

MATS Quarterly HCl Test Plan – St. Clair Power Plant

1a.	Names, titles, and telephone numbers for the personnel directly involved with this study are
	listed in the following table:

Name and Title	Company	Telephone
Mr. Thomas Snyder Environmental Specialist, (DTE Energy – EM&S)	DTE Energy Corporate Services, LLC 6100 West Warren, G4-S Detroit, MI 48210	(313) 897-0899
Mr. Dominic Vendittelli Environmental Engineer (DTE Energy SCPP – EM&S)	DTE Energy Corporate Services, LLC - SCPP 4505 King Road East China Township, MI 48054	(810) 326-6218

1b. Type of industrial process or combustion facility:

The St Clair Power Plant (SCPP) located at 4901 Pointe Drive in East China Township, Michigan, employs the use of four (4) coal-fired boilers (Units 2-3, 6, and 7). Units 2-3 each have Babcock and Wilcox boilers capable of producing 1,070,000 pounds per hour of steam with a nominally rated electrical generation of 170 MW. Units 6 and 7 have Combustion Engineering boilers capable of producing 2,100,000 and 3,580,000 pounds of steam per hour respectively. The turbine generators on each unit were manufactured by Westinghouse and have a nominally rated capability of 325 and 500 megawatts respectively.

1c. Type and quantity of raw and finished materials used in the process: The St. Clair Power Plant produces electricity used throughout SE Michigan.

1d. Description of any cyclical or batch operations which would tend to produce variable emissions with time:

The boilers at St. Clair Power Plant operate as base loaded units.

1e. Basic operating parameters used to regulate the process:

The operating parameters used to regulate the process are the same for any coal-fired boiler and will be documented in the control room during each test. In addition, opacity, stack gas flow, CO_2 , NO_x , SO_2 and Mercury emissions are continuously monitored and/or used to regulate the process.

1f. Rated capacity of the process and process rate during the testing:

Full load conditions for Units 2-3 on coal is 135 MW per unit. Full load conditions for Unit 6 is 325 MW. Full load conditions for Unit 7 is 500 MW. Quarterly testing for hydrogen chloride (HCl) will be performed at maximum normal operating load and will be representative of site specific normal operating conditions according to 40 CFR part 63.10007.

2a. Type of control device associated with the process:

The air pollution control equipment on Units 2-3 consists of Wheelebrator Frye electrostatic precipitators on each unit that have design collection efficiencies of 99.6%. Each exhaust stack is 599 feet tall with an internal diameter of 13.3 feet. The air pollution control equipment on Unit 6 consists of Research Corporation electrostatic precipitators that have design collection efficiencies of 99.6%. The exhaust stack is 425 feet tall with an internal diameter of 19.0 feet. The air pollution control equipment on Unit 7 consists of an American Standard electrostatic precipitator that has design collection efficiency of 99.6%. The exhaust stack is 600 feet tall with an internal diameter of 16.0 feet.

Each boiler is equipped with a Dry Sorbent Injection (DSI) and Activated Carbon Injection (ACI) air quality control system. The DSI system is used to control acid gas, PM, PM10, PM2.5, and NOx emissions from each unit. Trona is received at the plant where inline mills further refine the Trona. The ACI system is used to control Mercury emissions from each unit.

2b. Operating parameters of the control device:

Process operating data, including control room readings, precipitator readings, and DSI/ACI operating data, are collected continuously during normal operations of the control equipment.

2c. Rated capacity and efficiency of the control device:

The air pollution control equipment on Units 2-3 consists of Wheelebrator Frye electrostatic precipitators on each unit that have design collection efficiencies of 99.6%. The air pollution control equipment on Unit 6 consists of Research Corporation electrostatic precipitators that have design collection efficiencies of 99.6%. The air pollution control equipment on Unit 7 consists of an American Standard electrostatic precipitator that has design collection efficiency of 99.6%.

The DSI/ACI system capacity for Units 2-3 is 6,000 lb/hr DSI and 240 lb/hr ACI. The capacity for Units 6 & 7 is 12,000 lb/hr DSI and 480 lb/hr ACI. The efficiency of the DSI/ACI system is dependent on generating units' operating conditions and can vary day-to-day.

3. Applicable permit number and emission limits for the process to be tested:

The St. Clair Power Plant's HCl emissions are limited by 40 CFR Part 63 Subpart UUUUU. The HCl emission limit as stated in the regulation is 0.002 lb/MMBtu or 0.02 lb/MWh.

4. Identify all pollutants to be measured:

The exhaust gas concentration of HCl (ppm), and CO₂ (%) will be measured.

5. Description of the sampling train(s) to be used, including schematic diagrams if appropriate:

HCl testing will be performed on each Units' exhaust stack via triplicate 60-minute test runs. Testing for HCl will be conducted utilizing an FTIR analyzer with ASTM method D6348. In the event that FTIR analysis is unavailable or unfeasible, USEPA Method 26A modified as a single point sample per Method 26 procedures, will be used.

6. Detailed sampling and analysis procedures, including the applicable standard methods referenced: Sampling and analysis methods will include the following:

Parameter	Method	Analytical Method
Hydrogen Chloride (HCl), & Carbon Dioxide (CO2)	ASTM D6348	FTIR (Fourier transform infrared) spectroscopy
Emission Rate Calculations	USEPA Method 19	Stoichiometric Calculations

Sampling & Analytical Methods

ASTM D6348, *"DETERMINATION OF GASEOUS COMPOUNDS BY EXTRACTIVE DIRECT INTERFACE FOURIER TRANSFORM INFRARED (FTIR) SPECTROSCOPY"*, will be used to measure exhaust gas HCI and CO₂ concentrations.

When using ASTM 6348 to quantify the CO₂ concentrations in the exhaust gas, the analyzer calibration error, bias, system response time, and drift checks required In USEPA Method 3A will be followed. The CO₂ calibration gases will be NIST traceable calibration gases.

USEPA Method 19 will be used to convert the HCl concentrations to lb/mmBtu. HCl and CO2 measurements will be made on a consistent wet basis.

The number and length of sampling runs which will constitute a complete test:
The HCl testing will consist of triplicate 60-minute sampling runs.

Dimensioned sketches showing all sampling ports in relation to the upstream and downstream disturbances or obstructions of gas flow: All sampling will be conducted at the test locations at each Units' exhaust stack. (See Figures 1-3).

9. Estimated flue gas conditions such as temperature, moisture and velocity:

The estimated flue gas temperature, gas moisture and velocity for each exhaust stack are approximately 250-280°F, 5-8% and 60-75 ft/sec. (Units 2-3 and 6) and 125 ft/sec (Unit 7), respectively. The known analytical interferents to HCl in the source effluent are water vapor and carbon dioxide. Moisture content (%) and CO_2 (%) will be measured with the FTIR.

- **10.** Projected process operating conditions during which the tests will be run: Testing will be performed at normal operating load and will be representative of site specific normal operating conditions according to 40 CFR part 63.10007.
- 11. Description of any process or control equipment data to be collected during the testing: Process data collected during the testing will include boiler load, dry sorbent injection rates, and continuous emissions monitor data. Daily samples of the coal being burned will be collected and

analyzed for % sulfur, % ash, and heat content. If a coal sample is unavailable on the day of a test, the Fc value of 1,800, found in USEPA Method 19 table 19-2, will be used in emissions calculations.

12. Description of any monitoring data to be collected during the test period (i.e. – continuous emission monitoring data):

Monitoring data collected during the testing will include the CEMs data (SO₂, NO_x, CO₂, Load and Opacity).

13. Chain of Custody procedures:

Standard chain of custody procedures will be followed for all testing and sample collection.

14. Field quality assurance/quality control procedures (eg – field blanks, sample storage and transport methods):

The sampling team will prepare and calibrate field-sampling equipment and perform quality assurance/quality control (QA/QC) consistent with the employed USEPA and ASTM methodology. The FTIR data will be validated to ensure accuracy.

- 15. Laboratory quality assurance/quality control procedures utilized as part of the testing: Calibrations for USEPA Method 3A and ASTM D6348 will follow protocol stated in the methods and will utilize appropriate calibration gases.
- **16.** Names and titles of personnel who will be performing the testing: The testing will be performed by DTE Energy's Field Services Group.

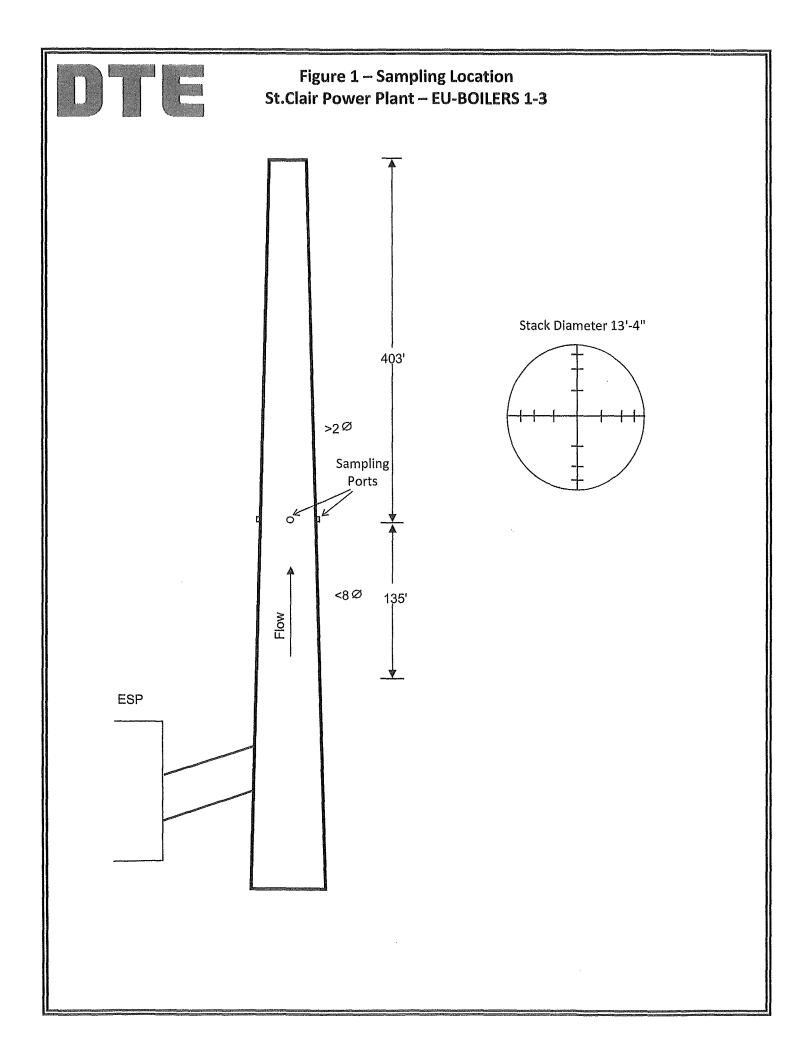
ASTM D6348

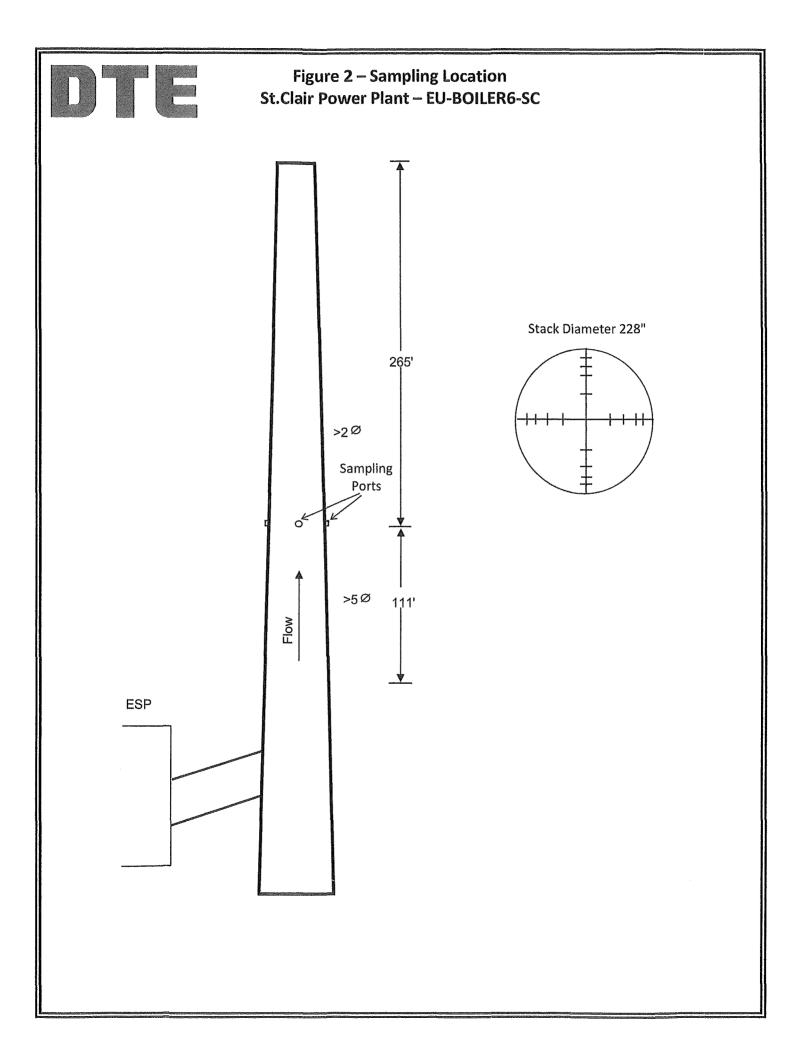
Mr. Thomas Snyder, Environmental Specialist, QSTI Mr. Fred Meinecke, Senior Technician Mr. Jason Logan, Environmental Specialist, QSTI Mr. Mark Westerberg, Senior Environmental Specialist, QSTI

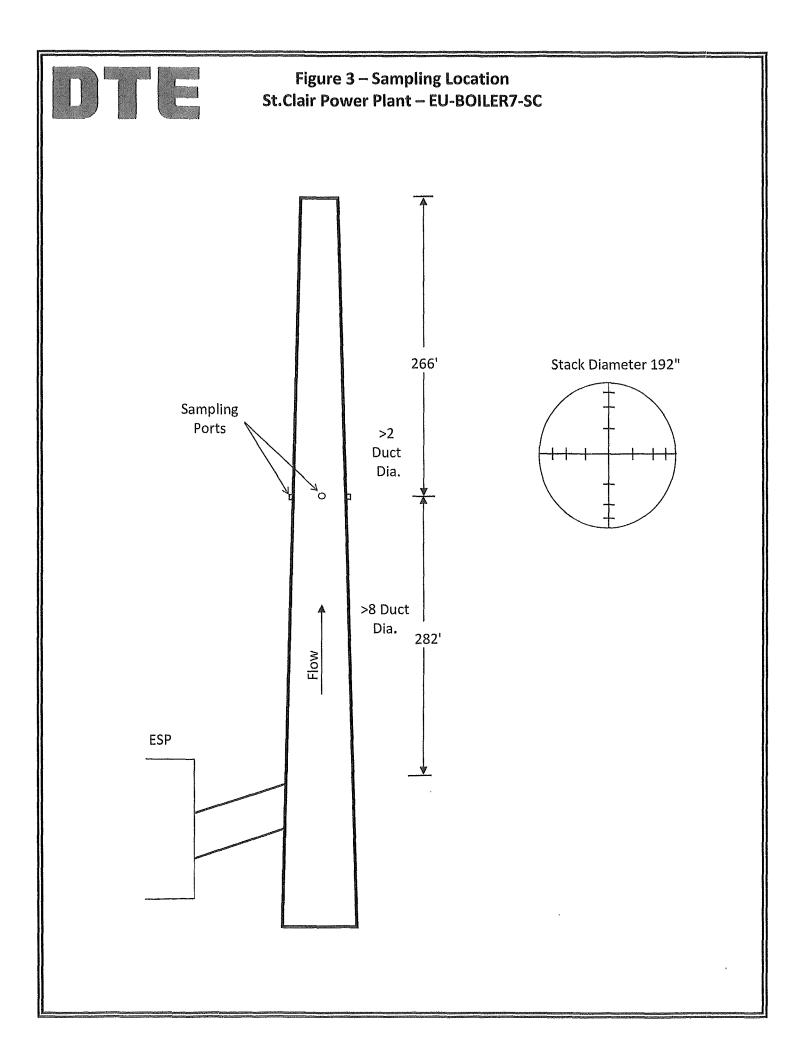
FTIR data validation

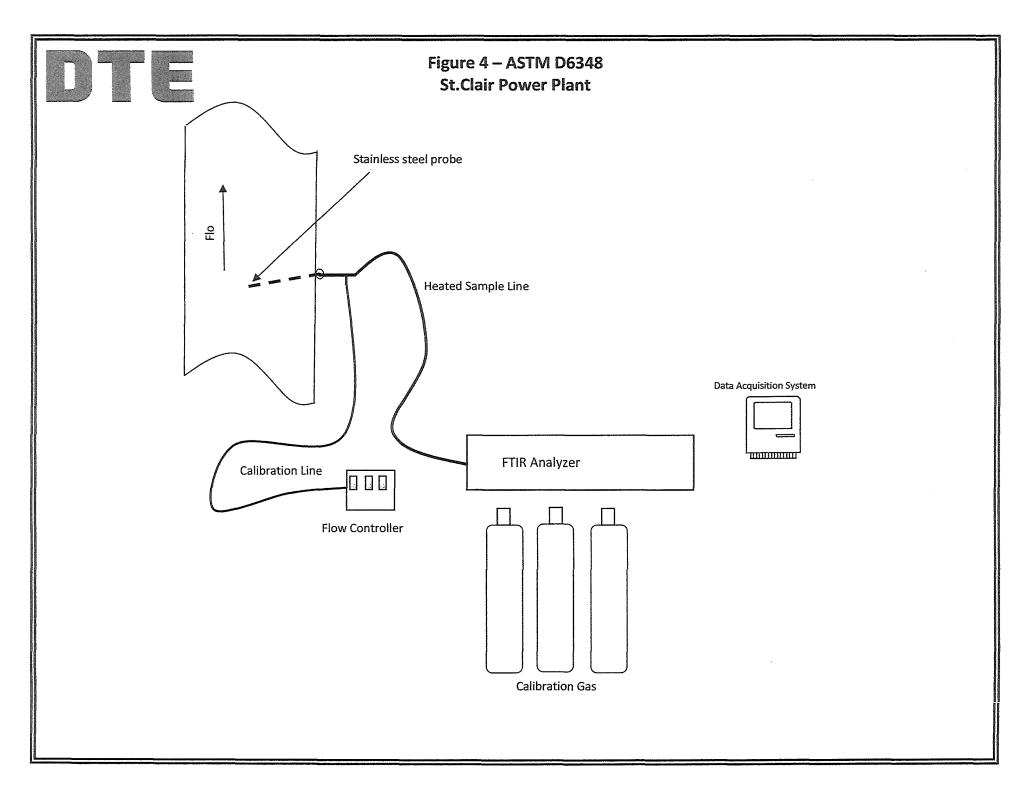
Montrose Prism Analytical Technologies, Inc. (PATI) 2625 Denison Drive Mt. Pleasant, MI 48858 Phone : 989.772.5088

The emission test report will include the items found on pages 3 and 4 of the EGLE/Air Quality Division's Format for Submittal of Source Emission Test Plans and Reports. Included in the report will be a site description with the reason for testing, source descriptions, a summary of results, our sampling and analytical procedures, and test results and discussion.











APPENDIX B

FIELD SAMPLING DATA