



June 25, 2024

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Michigan Department of EGLE  
Air Quality Division  
Grand Rapids District Office  
350 Ottawa Avenue NW, Unit 10  
Grand Rapids, MI 49503  
[EGLE-ROP@michigan.gov](mailto:EGLE-ROP@michigan.gov)

cc: Gina McCann; MI Dept. of EGLE; Air Quality Division; Saginaw Bay District Office; 401 Ketchum Street Suite B; Bay City, MI 48708; [McCannG2@michigan.gov](mailto:McCannG2@michigan.gov)  
Caryn Owens; MI Dept. of EGLE; Air Quality Division; Cadillac District Office; 120 West Chapin Street; Cadillac, MI 49601-2158; [Owensc1@michigan.gov](mailto:Owensc1@michigan.gov)

**DOW SILICONES CORPORATION RULE 216(2) CHANGE NOTIFICATION: FGTHROX, FGSITESCRUBBERS, FGBLOWERS**

Please find attached the notification forms required by Rule 216(2) for changes to Dow Silicones Corporation Renewable Operating Permit number MI-ROP-A4043-2019b.

On February 25<sup>th</sup>, 2022, FGTHROX, FGSITESCRUBBERS, and FGSITEBLOWERS received special conditions associated with permit to install application no. 91-07F. Dow Silicones Corporation requests that these special conditions be included in the renewable operating permit.

Attached are the M-001, C-001, and A-001 forms and the CAM plan. If you have questions regarding this submittal, please contact Jim Alger at (989) 615-1901.

A handwritten signature in black ink that reads "Kristan Soto".

Kristan Soto  
Responsible Care Leader  
1790 Building, Washington Street  
Midland, MI 48674  
(989) 633-1809

Enclosures

**RENEWABLE OPERATING PERMIT APPLICATION  
C-001: CERTIFICATION**

*This information is required by Article II, Chapter 1, part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to provide this information may result in civil and/or criminal penalties. Please type or print clearly.*

**This form is completed and included as part of Renewable Operating Permit (ROP) initial and renewal applications, notifications of change, amendments, modifications, and additional information.**

Form Type C-001	SRN A4043
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Stationary Source Name Dow Silicones Corporation	
City Midland	County Midland

<b>SUBMITTAL CERTIFICATION INFORMATION</b>	
1. Type of Submittal <i>Check only one box.</i> <input type="checkbox"/> Initial Application (Rule 210) <input checked="" type="checkbox"/> Notification / Administrative Amendment / Modification (Rules 215/216) <input type="checkbox"/> Renewal (Rule 210) <input type="checkbox"/> Other, describe on AI-001	
2. If this ROP has more than one Section, list the Section(s) that this Certification applies to <u>FGTHROX, FGSITEBLOWERS, and FGSITESCRUBBERS</u>	
3. Submittal Media <input checked="" type="checkbox"/> E-mail <input type="checkbox"/> FTP <input type="checkbox"/> Disk <input checked="" type="checkbox"/> Paper	
4. Operator's Additional Information ID - Create an Additional Information (AI) ID that is used to provide supplemental information on AI-001 regarding a submittal. AI <u>FGTHROX</u>	

<b>CONTACT INFORMATION</b>	
Contact Name Jim Alger	Title Midland Area State Air Permitting Specialist
Phone number 989-615-1901	E-mail address james.s.alger@dow.com

<b>This form must be signed and dated by a Responsible Official.</b>				
Responsible Official Name Kristan Soto			Title EH&S Responsible Care Leader	
Mailing address 1790 Building, Washington Street				
City Midland	State MI	ZIP Code 48674	County Midland	Country USA
<b>As a Responsible Official, I certify that, based on information and belief formed after reasonable inquiry, the statements and information in this submittal are true, accurate and complete.</b>				
Signature of Responsible Official <u>Kristan Soto</u>			Date <u>06/25/2024</u>	

**RENEWABLE OPERATING PERMIT**  
**M-001: RULE 215 CHANGE NOTIFICATION**  
**RULE 216 AMENDMENT/MODIFICATION APPLICATION**

*This information is required by Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment.*

1. SRN A4043	2. ROP Number MI-ROP-A4043-2019b	3. County Midland
4. Stationary Source Name Dow Silicones Corporation		
5. Location Address 3901 S. Saginaw Road	6. City Midland	
7. Submittal Type - <i>The submittal must meet the criteria for the box checked below. Check only one box. Attach a mark-up of the affected ROP pages for applications for Rule 216 changes.</i> <input type="checkbox"/> Rule 215(1) Notification of change. Complete Items 8 – 10 and 14 <input type="checkbox"/> Rule 215(2) Notification of change. Complete Items 8 – 10 and 14 <input type="checkbox"/> Rule 215(3) Notification of change. Complete Items 8 – 11 and 14 <input type="checkbox"/> Rule 215(5) Notification of change. Complete Items 8 – 10 and 14 <input type="checkbox"/> Rule 216(1)(a)(i)-(iv) Administrative Amendment. Complete Items 8 – 10 and 14 <input type="checkbox"/> Rule 216(1)(a)(v) Administrative Amendment. Complete Items 8 – 14. Results of testing, monitoring & recordkeeping must be submitted. See detailed instructions. <input checked="" type="checkbox"/> Rule 216(2) Minor Modification. Complete Items 8 – 12 and 14 <input type="checkbox"/> Rule 216(3) Significant Modification. Complete Items 8 – 12 and 14, and provide any additional information needed on ROP application forms. See detailed instructions. <input type="checkbox"/> Rule 216(4) State-Only Modification. Complete Items 8 – 12 and 14		
8. Effective date of the change. (MM/DD/YYYY) See detailed instructions. 06/25/2024		9. Change in emissions? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
10. Description of Change - <i>Describe any changes or additions to the ROP, including any changes in emissions and/or pollutants that will occur. If additional space is needed, complete an Additional Information form (AI-001).</i> This is the notification to roll PTI No. 91-07F into the ROP as the TOX has been completely installed and is ready to be operated. This request is to also remove FGSITEBLOWERS from the ROP.		
11. New Source Review Permit(s) to Install (PTI) associated with this application? If Yes, enter the PTI Number(s) 91-07F - - - - -		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
12. Compliance Status - <i>A narrative compliance plan, including a schedule for compliance, must be submitted using an AI-001 if any of the following are checked No.</i> a. Is the change identified above in compliance with the associated applicable requirement(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No b. Will the change identified above continue to be in compliance with the associated applicable requirement(s)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No c. If the change includes a future applicable requirement(s), will timely compliance be achieved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
13. Operator's Additional Information ID - <i>Create an Additional Information (AI) ID for the associated AI-001 form used to provide supplemental information.</i>		AI FGTHROX
14. Contact Name Jim Alger	Telephone No. (989) 615-1901	E-mail Address james.s.alger@dow.com
15. This submittal also updates the ROP renewal application submitted on ____/____/____ (If yes, a mark-up of the affected pages of the ROP must be attached.)		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N/A

**NOTE: A CERTIFICATION FORM (C-001) SIGNED BY A RESPONSIBLE OFFICIAL MUST ACCOMPANY ALL SUBMITTALS**

For Assistance  
Contact: 800-662-9278

www.michigan.gov/egle

EQP 5775 (Rev.04-2019)

**RENEWABLE OPERATING PERMIT APPLICATION**  
**AI-001: ADDITIONAL INFORMATION**

*This information is required by Article II, Chapter 1, Part 55 (Air Pollution Control) of P.A. 451 of 1994, as amended, and the Federal Clean Air Act of 1990. Failure to obtain a permit required by Part 55 may result in penalties and/or imprisonment. Please type or print clearly. Refer to instructions for additional information to complete this form.*

SRN: A4043

Section Number (if applicable):

1. Additional Information ID

AI-FGTHROX

**Additional Information**

2. Is This Information Confidential?

☐ Yes ☒ No

FGTHROX is subject to CAM (40 CFR Part 64) for VOCs, particulate matter (PM), PM less than 10 microns in size (PM10), and PM less than 2.5 microns in size (PM2.5). Therefore, the following CAM plan is being submitted as part of the application.

Please refer to the attached CAM plan.

**I. BACKGROUND**

**A. Emission Unit**

Description: Site wide thermal oxidizer system consisting of EUTHROX and EUTOX.

Identification: FGTHROX

Facility: Dow Silicones Corporation  
3901 S. Saginaw Rd  
Midland, MI 48686

**B. Applicable Regulation, Emission Limit, Monitoring Requirements**

Permit Number: 91-07F

Emission Limits:

PM10: 8.9 tpy, Rule 205(3)

Monitoring Requirements: EUTHROX Combustion Chamber Temperature  
EUTHROX Combustion Chamber Residence Time  
EUTHROX IWS 1<sup>st</sup> Stage Secondary Voltage  
EUTHROX IWS 2<sup>nd</sup> Stage Secondary Voltage  
EUTHROX IWS Secondary Current  
EUTHROX IWS Packing Recycle Rate per Stage  
EUTOX Combustion Chamber Temperature  
EUTOX Combustion Chamber Residence Time  
EUTOX Venturi Scrubber Water Flow Rate  
EUTOX WESP Minimum Secondary Voltage  
EUTOX WESP Minimum Secondary Current

**C. Control Technology**

2 Thermal Oxidizers (THROX and TOX)  
2 Stage Ionizing Wet Scrubber (IWS)  
Venturi Scrubber  
Wet Electrostatic Precipitator (WESP)

## II. MONITORING APPROACH

	<b>EUTHROX Combustion Chamber Temperature</b>
<b>A. Indicator</b>	EUTHROX combustion chamber temperature is monitored through two redundant thermocouples. It is continuously monitored and recorded in 15-minute intervals.
<b>B. Indicator Range</b>	An excursion is defined as a combustion chamber temperature less than 1800 °F. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>C. QIP Threshold</b>	None selected
<b>D. Control Bypass</b>	In the event that both EUTHROX and EUTOX are both unavailable, vent streams can be sent to FGSITESCRUBBERS by a control valve that is located upstream of the combustion chamber.

	<b>EUTHROX Combustion Chamber Residence Time</b>
<b>E. Indicator</b>	EUTHROX combustion chamber residence time is calculated via gas flow rate monitors located on the stack and physical dimensions of the combustion chamber. It is continuously calculated and recorded.
<b>F. Indicator Range</b>	An excursion is defined as a combustion chamber residence time of less than one second. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>G. QIP Threshold</b>	None selected
<b>H. Control Bypass</b>	In the event that both EUTHROX and EUTOX are both unavailable, vent streams can be sent to FGSITESCRUBBERS by a control valve that is located upstream of the combustion chamber.

	<b>EUTHROX IWS 1<sup>st</sup> Stage Secondary Voltage</b>
<b>I. Indicator</b>	EUTHROX IWS 1 <sup>st</sup> stage secondary voltage is monitored through a voltmeter located in the IWS 1 <sup>st</sup> stage. It is continuously monitored and recorded in 1-hour intervals.
<b>J. Indicator Range</b>	An excursion is defined as an hourly average voltage less than 10 kV while emissions are routed to the THROX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>K. QIP Threshold</b>	None selected
<b>L. Control Bypass</b>	None present

	<b>EUTHROX IWS 2<sup>nd</sup> Stage Secondary Voltage</b>
<b>M. Indicator</b>	EUTHROX IWS 2 <sup>nd</sup> stage secondary voltage is monitored through a voltmeter located in the IWS 2 <sup>nd</sup> stage. It is continuously monitored and recorded in 1-hour intervals.
<b>N. Indicator Range</b>	An excursion is defined as an hourly average voltage less than 15 kV while emissions are routed to the THROX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>O. QIP Threshold</b>	None selected
<b>P. Control Bypass</b>	None present

	<b>EUTHROX IWS Secondary Current</b>
<b>Q. Indicator</b>	EUTHROX IWS secondary current is monitored through an ammeter located in the IWS 1 <sup>st</sup> and 2 <sup>nd</sup> stage. It is continuously monitored and recorded in 1-hour intervals.
<b>R. Indicator Range</b>	An excursion is defined as an hourly average current less than 50 mA while emissions are routed to the THROX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>S. QIP Threshold</b>	None selected
<b>T. Control Bypass</b>	None present

	<b>EUTHROX IWS Packing Recycle Flow per Stage</b>
<b>U. Indicator</b>	EUTHROX IWS packing recycle rate per stage is monitored through a liquid flowmeter located in each IWS stage. It is continuously monitored and recorded in 1-hour intervals.
<b>V. Indicator Range</b>	An excursion is defined as an hourly average packing recycle rate less than 324 gallons/minute per stage while emissions are routed to the THROX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>W. QIP Threshold</b>	None selected
<b>X. Control Bypass</b>	None present

	<b>EUTOX Combustion Chamber Temperature</b>
<b>Y. Indicator</b>	EUTOX combustion chamber temperature is monitored through two redundant thermocouples. It is continuously monitored and recorded in 15-minute intervals.
<b>Z. Indicator Range</b>	An excursion is defined as a combustion chamber temperature less than 1800 °F. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>AA. QIP Threshold</b>	None selected
<b>BB. Control Bypass</b>	In the event that both EUTHROX and EUTOX are both unavailable, vent streams can be sent to FGSITESCRRUBBERS by a control valve that is located upstream of the combustion chamber.

	<b>EUTOX Combustion Chamber Residence Time</b>
<b>CC. Indicator</b>	EUTOX combustion chamber residence time is calculated via gas flow rate monitors located on the stack and physical dimensions of the combustion chamber. It is continuously calculated and recorded.
<b>DD. Indicator Range</b>	An excursion is defined as a combustion chamber residence time of less than two seconds. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>EE. QIP Threshold</b>	None selected
<b>FF. Control Bypass</b>	In the event that both EUTHROX and EUTOX are both unavailable, vent streams can be sent to FGSITESCRRUBBERS by a control valve that is located upstream of the combustion chamber.

	<b>EUTOX Venturi Scrubber Water Flow Rate</b>
<b>GG. Indicator</b>	EUTOX venturi scrubber water flow rate is monitored through a liquid flowmeter located at the inlet to the venturi scrubber. It is continuously monitored and recorded in 15-minute intervals.
<b>HH. Indicator Range</b>	An excursion is defined as a venturi scrubber water flow rate less than 15-gallons per minute while emissions are routed to the TOX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>II. QIP Threshold</b>	None selected
<b>JJ. Control Bypass</b>	None present



	<b>EUTOX WESP Secondary Voltage</b>
<b>KK. Indicator</b>	EUTOX WESP stage secondary voltage is monitored through a voltmeter located in the WESP. It is continuously monitored and recorded in 1-hour intervals.
<b>LL. Indicator Range</b>	An excursion is defined as an hourly average voltage less than 25 kV while emissions are routed to the TOX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>MM. QIP Threshold</b>	None selected
<b>NN. Control Bypass</b>	None present

	<b>EUTOX WESP Secondary Current</b>
<b>OO. Indicator</b>	EUTOX WESP secondary current is monitored through an ammeter located in the WESP. It is continuously monitored and recorded in 1-hour intervals.
<b>PP. Indicator Range</b>	An excursion is defined as an hourly average current less than 30 mA while emissions are routed to the TOX. Excursions trigger action under the Malfunction Abatement Plan (MAP).
<b>QQ. QIP Threshold</b>	None selected
<b>RR. Control Bypass</b>	None present

### III. PERFORMANCE CRITERIA

	<b>EUTHROX Combustion Chamber Temperature</b>
<b>A. Data Representativeness</b>	Two thermocouples operate in a redundant manner and are located within the THROX combustion chamber.
<b>B. Verification of Operational Status</b>	Not Applicable (NA)
<b>C. QA/QC Practices and Criteria</b>	The thermocouples are on a regular PM schedule.
<b>D. Monitoring Frequency</b>	Combustion chamber temperature is continuously monitored.
<b>E. Data Collection Procedure</b>	Combustion chamber temperature data is collected at 15-minute intervals (4 per hour) and recorded electronically.
<b>F. Averaging Period</b>	15 minutes

	<b>EUTHROX Combustion Chamber Residence Time</b>
<b>G. Data Representativeness</b>	EUTHROX combustion chamber residence time is calculated based on the stack flowrates and the physical dimensions of the combustion chamber.
<b>H. Verification of Operational Status</b>	NA
<b>I. QA/QC Practices and Criteria</b>	The gas flowmeters are on a regular PM schedule.
<b>J. Monitoring Frequency</b>	Combustion chamber residence time is continuously calculated.
<b>K. Data Collection Procedure</b>	Combustion chamber residence time is calculated continuously and recorded electronically at 15-minute intervals (4 per hour).
<b>L. Averaging Period</b>	15 minutes

	<b>EUTHROX IWS 1<sup>st</sup> Stage Secondary Voltage</b>
<b>M. Data Representativeness</b>	A voltmeter is located in the IWS 1 <sup>st</sup> stage to measure secondary voltage.
<b>N. Verification of Operational Status</b>	NA
<b>O. QA/QC Practices and Criteria</b>	The voltmeter is on a regular PM schedule.
<b>P. Monitoring Frequency</b>	IWS 1 <sup>st</sup> stage secondary voltage is continuously monitored.
<b>Q. Data Collection Procedure</b>	IWS 1 <sup>st</sup> stage secondary voltage data is averaged into 1-hour intervals and recorded electronically.
<b>R. Averaging Period</b>	1 hour

		<b>EUTHROX IWS 2<sup>nd</sup> Stage Secondary Voltage</b>
<b>S.</b>	<b>Data Representativeness</b>	A voltmeter is located in the IWS 2 <sup>nd</sup> stage to measure secondary voltage.
<b>T.</b>	<b>Verification of Operational Status</b>	NA
<b>U.</b>	<b>QA/QC Practices and Criteria</b>	The voltmeter is on a regular PM schedule.
<b>V.</b>	<b>Monitoring Frequency</b>	IWS 2 <sup>nd</sup> stage secondary voltage is continuously monitored.
<b>W.</b>	<b>Data Collection Procedure</b>	IWS 2 <sup>nd</sup> stage secondary voltage data is averaged into 1-hour intervals and recorded electronically.
<b>X.</b>	<b>Averaging Period</b>	1 hour

		<b>EUTHROX IWS Secondary Current</b>
<b>Y.</b>	<b>Data Representativeness</b>	An ammeter is located in the IWS 1 <sup>st</sup> and 2 <sup>nd</sup> stage to measure secondary voltage.
<b>Z.</b>	<b>Verification of Operational Status</b>	NA
<b>AA.</b>	<b>QA/QC Practices and Criteria</b>	The ammeter is on a regular PM schedule.
<b>BB.</b>	<b>Monitoring Frequency</b>	IWS secondary current is continuously monitored.
<b>CC.</b>	<b>Data Collection Procedure</b>	IWS secondary current data is averaged into 1-hour intervals and recorded electronically.
<b>DD.</b>	<b>Averaging Period</b>	1 hour

		<b>EUTHROX IWS Packing Recycle Rate per Stage</b>
<b>EE.</b>	<b>Data Representativeness</b>	Liquid flowmeters are located in the IWS 1 <sup>st</sup> and 2 <sup>nd</sup> stages to measure packing recycle rate.
<b>FF.</b>	<b>Verification of Operational Status</b>	NA
<b>GG.</b>	<b>QA/QC Practices and Criteria</b>	The liquid flowmeters are on a regular PM schedule.
<b>HH.</b>	<b>Monitoring Frequency</b>	IWS packing recycle rate per stage is continuously monitored.
<b>II.</b>	<b>Data Collection Procedure</b>	IWS packing recycle rate per stage data is averaged into 1-hour intervals and recorded electronically.
<b>JJ.</b>	<b>Averaging Period</b>	1 hour

	<b>EUTOX Combustion Chamber Temperature</b>
<b>KK. Data Representativeness</b>	Two thermocouples operate in a redundant manner and are located within the TOX combustion chamber.
<b>LL. Verification of Operational Status</b>	Not Applicable (NA)
<b>MM. QA/QC Practices and Criteria</b>	The thermocouples are on a regular PM schedule.
<b>NN. Monitoring Frequency</b>	Combustion chamber temperature is continuously monitored.
<b>OO. Data Collection Procedure</b>	Combustion chamber temperature data is collected at 15-minute intervals (4 per hour) and recorded electronically.
<b>PP. Averaging Period</b>	15 minutes

	<b>EUTOX Combustion Chamber Residence Time</b>
<b>QQ. Data Representativeness</b>	EUTOX combustion chamber residence time is calculated based on the stack flowrates and the physical dimensions of the combustion chamber.
<b>RR. Verification of Operational Status</b>	NA
<b>SS. QA/QC Practices and Criteria</b>	The gas flowmeters are on a regular PM schedule.
<b>TT. Monitoring Frequency</b>	Combustion chamber residence time is continuously calculated.
<b>UU. Data Collection Procedure</b>	Combustion chamber residence time is calculated continuously and recorded electronically at 15-minute intervals (4 per hour).
<b>VV. Averaging Period</b>	15 minutes

	<b>EUTOX Venturi Scrubber Water Flow Rate</b>
<b>WW. Data Representativeness</b>	A liquid flowmeter is located at the venturi scrubber inlet to measure water flow rate.
<b>XX. Verification of Operational Status</b>	NA
<b>YY. QA/QC Practices and Criteria</b>	The liquid flowmeter is on a regular PM schedule.
<b>ZZ. Monitoring Frequency</b>	Venturi scrubber water flow rate is continuously monitored.
<b>AAA. Data Collection Procedure</b>	Venturi scrubber water flow rate data is collected at 15-minute intervals (4 per hour) and recorded electronically.
<b>BBB. Averaging Period</b>	1 hour

	<b>EUTOX WESP Secondary Voltage</b>
<b>CCC. Data Representativeness</b>	A voltmeter is located in the WESP to measure secondary voltage.
<b>DDD. Verification of Operational Status</b>	NA
<b>EEE. QA/QC Practices and Criteria</b>	The voltmeter is on a regular PM schedule.
<b>FFF. Monitoring Frequency</b>	WESP secondary voltage is continuously monitored.
<b>GGG. Data Collection Procedure</b>	WESP secondary voltage data is averaged into 1-hour intervals and recorded electronically.
<b>HHH. Averaging Period</b>	1 hour

	<b>EUTOX WESP Secondary Current</b>
<b>III. Data Representativeness</b>	An ammeter is located in the WESP to measure secondary voltage.
<b>JJJ. Verification of Operational Status</b>	NA
<b>KKK. QA/QC Practices and Criteria</b>	The ammeter is on a regular PM schedule.
<b>LLL. Monitoring Frequency</b>	WESP secondary current is continuously monitored.
<b>MMM. Data Collection Procedure</b>	WESP secondary current data is averaged into 1-hour intervals and recorded electronically.
<b>NNN. Averaging Period</b>	1 hour

#### **IV. JUSTIFICATION**

##### **A. Rationale for Selection of Performance Indicators**

For the THROX and TOX, combustion chamber temperature and combustion chamber residence time are commonly monitored parameters that provide a means of assurance that the required destruction efficiency of VOCs is being achieved. A decrease in temperature or residence time may indicate that the THROX or TOX is not achieving the desired control efficiency.

For the IWS, the combination of the secondary voltage, secondary current, and packing recycle rate monitoring provides assurance that the IWS is achieving the desired PM removal efficiency. An excursion of any of these parameters may indicate that the IWS is not achieving the desired control efficiency of PM.

For the venturi scrubber, the water flow rate provides assurance that the venturi scrubber is achieving the desired PM removal efficiency. An excursion below the minimum water flow rate may indicate that the venturi scrubber is not achieving the desired control efficiency of PM.

For the WESP, the combination of the secondary voltage and secondary current provide assurance that the WESP is achieving the desired PM removal efficiency. An excursion from either of these parameters may indicate that the WESP is not achieving the desired control efficiency of PM.

##### **B. Rational for Selection of Indicator Ranges**

All indicator ranges included in this CAM plan for EUTHROX were established based on source testing of the THROX that demonstrates compliance with the required emission limits. An excursion of any of these parameters would trigger action based on the MAP. The THROX parameters are monitored continuously and recorded in 15-minute intervals. The IWS parameters are monitored continuously and recorded in 1-hour intervals. No QIP thresholds have been selected for these indicators.

All indicator ranges included in this CAM plan for EUTOX were established based on manufacturer recommendations. These parameters may be updated following initial performance testing of EUTOX. An excursion of any of these parameters would trigger action based on the MAP. The TOX and venturi scrubber parameters are monitored continuously and recorded in 15-minute intervals. The WESP parameters are monitored and continuously recorded in 1-hour intervals. No QIP thresholds have been selected for these indicators.