



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

4/10/2013

Certified Mail

James Hostacky
Ford Motor Company, Cleveland Engine Plants
18300 Snow Rd
Brook Park, OH 44142

Facility ID: 1318120179
Permit Number: P0095225
County: Cuyahoga

RE: DRAFT AIR POLLUTION TITLE V PERMIT
Permit Type: Renewal

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Plain Dealer. A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

Andrew Hall Permit Review/Development Section Ohio EPA, DAPC 50 West Town Street, Suite 700 P.O. Box 1049 Columbus, Ohio 43216-1049	and	Cleveland Division of Air Quality 2nd Floor 75 Erieview Plaza Cleveland, OH 44114
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Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Cleveland Division of Air Quality at (216)664-2297.

Sincerely,

Michael W. Ahern
Michael W. Ahern, Manager
Permit Issuance and Data Management Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
CDAQ; Pennsylvania

PUBLIC NOTICE
4/10/2013 Issuance of Draft Air Pollution Title V Permit

Ford Motor Company, Cleveland Engine Plants

18300 Five Points Road,
Brook Park, OH 44142-1415

Cuyahoga County

FACILITY DESC.: Gasoline Engine and Engine Parts Manufacturing

PERMIT #: P0095225

PERMIT TYPE: Renewal

PERMIT DESC: Title V renewal permit for Ford Engine Plant that includes three natural gas-fired boilers (122 mmBtu/hr), dynamometer engine testing controlled with a thermal oxidizer, and cylinder block machining operations. This renewal includes several Minor Modifications for the Title V permit as well.

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitsonline.aspx> by entering the permit # or: David Hearne, Cleveland Division of Air Quality, 2nd Floor 75 Erieview Plaza, Cleveland, OH 44114. Ph: (216)664-2297



Statement of Basis For Air Pollution Title V Permit

Facility ID:	1318120179
Facility Name:	Ford Motor Company, Cleveland Engine Plants
Facility Description:	Automobile engine manufacturing facility.
Facility Address:	18300 Five Points Road, Brook Park, OH 44142-1415
Permit #:	P0095225, Renewal

This facility is subject to Title V because it is major for:

- Lead
 Sulfur Dioxide
 Carbon Monoxide
 Volatile Organic Compounds
 Nitrogen Oxides
 Particulate Matter ≤ 10 microns
 Single Hazardous Air Pollutant
 Combined Hazardous Air Pollutants
 Maximum Available Control Technology Standard(s)
 GHG
 Title IV

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(U)?	Yes.
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	No.
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	B301 - B303: Modified terms for converting from coal to natural gas. P048 – P063 (PTI 13-03895 & P0105372): added as insignificant units P245: PTI modification Removed: P264 (no longer hot test, now De Minimis), P280 & P281 (shutdown)
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	N/A



Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	Added boilers B301, B302, and B303 which were previously included with Ford Casting which has permanently shut down. Included PTI modification terms for P245. Added CAM requirements for P245.
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	The CAM requirements apply to emissions unit P245 for carbon monoxide which is controlled by a recuperative thermal oxidizer with interlock. Ford Engine has submitted a CAM plan for this emissions unit.

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
2.	77-01		List of insignificant emissions units.
3.		Y	40 CFR Part 63 Subpart DDDDD applicability for boilers B301, B302, and B303
4.		Y	40 CFR Part 63 Subpart PPPPP applicability for dynamometer P245
5.		Y	40 CFR Part 64 CAM applicability for P245

C. Emissions Unit Terms and Conditions

Key:	
EU = emissions unit ID	R = record keeping requirements
ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit)	Rp = reporting requirements
OR = operational restriction	ET = emission testing requirements (not including compliance method terms)
M = monitoring requirements	St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement
ENF = did noncompliance issues drive the monitoring requirements?	Misc = miscellaneous requirements



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B301	12.2 lbs NO _x /hr	31-05(A)(3)		N	Y	Y	N	Y	Y	Y	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET - the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A.</p> <p>This emissions unit is required to be equipped with Low-NO_x burners. The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>
B301	10.25 lbs CO/hour	31-05(A)(3)		N	Y	Y	N	Y	Y	Y	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET- The permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 10 found in 40 CFR Part 60, Appendix A.</p> <p>The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>
B301	53.44 TPY NO _x	31-05(A)(3)		N	N	N	N	N	N	N	N	N	<p>ET- The ton/year limit was established at potential to emit using 8760 hours/yr.</p> <p>This emissions unit is required to be equipped with Low-NO_x burners. The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B301	44.89 TPY CO	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET- The ton/year limit was established at potential to emit using 8760 hours/yr. The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.
B301	4.06 TPY PE	31-05(F)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit using the emission factor from AP-42.
B301	0.32 TPY SO ₂	31-05(F)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit using the emission factor from AP-42.
B301	Visible emissions not to exceed 20% opacity as a six-minute average, except as specified by rule.	17-07(A)(1)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET – Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
B301	0.020 lb PE/mmbtu	17-10(B)(1)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET – If required, the permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B301	4.2 lb SO ₂ /mmbtu	18-24(Z)		N	Y	Y	N	Y	Y	N	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET – If required, the permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.</p>
B301	0.1 lbNO _x /mmbtu	110-03(C)		N	Y	Y	N	Y	Y	Y	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET – the permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test method 7 found in 40 CFR Part 60, Appendix A.</p>
B302	12.2 lbs NO _x /hr	31-05(A)(3)		N	Y	Y	N	Y	Y	Y	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET – The permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A.</p> <p>This emissions unit is required to be equipped with Low-NO_x burners. The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>
B302	10.25 lbs CO/hour	31-05(A)(3)		N	Y	Y	N	Y	Y	Y	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET- The permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 10 found in 40 CFR Part 60, Appendix A.</p> <p>The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B302	53.44 TPY NOX	31-05(A)(3)		N	N	N	N	N	N	N	N	N	<p>ET- The ton/year limit was established at potential to emit using 8760 hours/yr.</p> <p>This emissions unit is required to be equipped with Low-NOx burners. The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>
B302	44.89 TPY CO	31-05(A)(3)		N	N	N	N	N	N	N	N	N	<p>ET- The ton/year limit was established at potential to emit using 8760 hours/yr.</p> <p>The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.</p>
B302	4.06 TPY PE	31-05(F)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit using the emission factor from AP-42.
B302	0.32 TPY SO2	31-05(F)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit using the emission factor from AP-42.
B302	Visible emissions not to exceed 20% opacity as a six-minute average, except as specified by rule.	17-07(A)(1)		N	Y	Y	N	Y	Y	N	N	N	<p>M, R, Rp – Burn only natural gas.</p> <p>ET – Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.</p>



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B302	0.020 lb PE/mmbtu	17-10(B)(1)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET – If required, the permittee shall demonstrate compliance with the emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.
B302	4.2 lb SO ₂ /mmbtu	18-24(Z)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET - If required, the permittee shall demonstrate compliance with the emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.
B302	0.1 lbNO _x /mmbtu	110-03(C)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET – The permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test method 7 found in 40 CFR Part 60, Appendix A.
B303	Visible emissions not to exceed 20% opacity as a six-minute average, except as specified by rule.	17-07(A)(1)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET – Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
B303	0.020 lb PE/mmbtu	17-10(B)(1)		N	Y	Y	N	Y	Y	N	N	N	M, R, Rp – Burn only natural gas. ET - If required, the permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B303	4.2 lb SO ₂ /mmbtu	18-24(Z)		N	Y	Y	N	Y	Y	Y	N	N	M, R, Rp – Burn only natural gas. ET - If required, the permittee shall demonstrate compliance with the emission limitation through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.
B303	0.10 lbNO _x /mmbtu	110-03(C)		N	Y	Y	N	Y	Y	Y	N	N	M, R, Rp – Burn only natural gas. ET – emission testing in accordance with Method 7, 40 CFR Part 60, Appendix A.
P245	1.9 lbs OC/VOC/hr	31-05(A)(3)		N	N	N	N	N	N	Y	N	N	ET – emission testing in accordance with Methods 1 through 4 and 25 or 25A, 40 CFR Part 60, Appendix A.
P245	8.3 TPY OC/VOC	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.
P245	29.8 lbsNO _x /hr	31-05(A)(3)		N	N	N	N	N	N	Y	N	N	ET – emission testing in accordance with Methods 1 through 4 and 7, 40 CFR Part 60, Appendix A.
P245	130.5 TPY NO _x	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.
P245	27.5 lbs CO/hr	31-05(A)(3)		N	Y	Y	N	Y	Y	Y	N	N	OR – Maintain temperature of incinerator at 1,400°F M – Monitor incinerator temperature R – Record incinerator temperature Rp – Quarterly temperature deviation reports and ET – emission testing in accordance with method 27, 40 CFR Part 60, Appendix A. CAM applies – monitor and record incinerator temperature.



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
P245	120.5 TPY CO	31-05(A)(3)		N	Y	Y	N	Y	Y	N	N	N	OR – Maintain temperature of incinerator at 1,400°F M – Monitor incinerator temperature R – Record incinerator temperature Rp – Quarterly temperature deviation reports and Annual reports of total emissions ET – compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.
P245	0.92 lb PE/PM ₁₀ /hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 1 through 4 and 5, of 40 CFR Part 60, Appendix A
P245	4.1 TPY PE/PM ₁₀	31-05(A)(3)		N	N	N	N	N	Y	N	N	N	Rp – Annual reports of total emissions ET – compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.
P245	0.73 lbSO _x / hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 1 through 4 and 6, of 40 CFR Part 60, Appendix A.
P245	3.2 TPY SO _x	31-05(A)(3)		N	N	N	N	N	Y	N	N	N	Rp – Annual reports of total emissions ET – compliance with the annual emission limitation shall be assumed provided compliance is maintained with the pounds per hour limitation.
P254	0.0013 gr/DSCF	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
P254	0.22 lb PE/hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P254	0.98 TPY PE	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit at 8,760 hrs/yr.
P254	0% opacity over a six-minute average	31-05(A)(3)		N	N	Y	N	Y	Y	N	N	N	M – Daily visible emissions checks Rp – Report any days where visible emissions were present ET – Method 9
P255	0.0013 gr/DSCF	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P255	0.18 lb PE/hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P255	0.77 TPY PE	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit at 8,760 hrs/yr.
P255	0% opacity over a six-minute average	31-05(A)(3)		N	N	Y	N	Y	Y	N	N	N	M – Daily visible emissions checks Rp – Report any days where visible emissions were present ET – Method 9
P256	0.0013 gr/DSCF	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A



EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
P256	0.18 lb PE/hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P256	0.77 TPY PE	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit at 8,760 hrs/yr.
P256	0% opacity over a six-minute average	31-05(A)(3)		N	N	Y	N	Y	Y	N	N	N	M – Daily visible emissions checks Rp – Report any days where visible emissions were present ET – Method 9
P257	0.0013 gr/DSCF	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P257	0.22 lb PE/hr	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 5, of 40 CFR Part 60, Appendix A
P257	0.98 TPY PE	31-05(A)(3)		N	N	N	N	N	N	N	N	N	ET – limitation was established based on the potential to emit at 8,760 hrs/yr.
P257	0% opacity over a six-minute average	31-05(A)(3)		N	N	Y	N	Y	Y	N	N	N	M – Daily visible emissions checks Rp – Report any days where visible emissions were present ET – Method 9



DRAFT

Division of Air Pollution Control
Title V Permit
for
Ford Motor Company, Cleveland Engine Plants

Facility ID:	1318120179
Permit Number:	P0095225
Permit Type:	Renewal
Issued:	4/10/2013
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
Ford Motor Company, Cleveland Engine Plants

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Draft Title V Permit
Ford Motor Company, Cleveland Engine Plants
Permit Number: P0095225
Facility ID: 1318120179
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 1318120179
Facility Description: Automobile engine manufacturing facility.
Application Number(s): A0026753, A0026754, A0026755, A0026756, A0026757, A0038265
Permit Number: P0095225
Permit Description: Title V renewal permit for Ford Engine Plant that includes three natural gas-fired boilers (122 mmBtu/hr), dynamometer engine testing controlled with a thermal oxidizer, and cylinder block machining operations. This renewal includes several Minor Modifications for the Title V permit as well.
Permit Type: Renewal
Issue Date: 4/10/2013
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0095224

This document constitutes issuance of an OAC Chapter 3745-77 Title V permit to:

Ford Motor Company, Cleveland Engine Plants
18300 Five Points Road
Brook Park, OH 44142-1415

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Cleveland Division of Air Quality
2nd Floor
75 Erieview Plaza
Cleveland, OH 44114
(216)664-2297

The above named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Cleveland Division of Air Quality. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months (540 days) and no later than 6 months (180 days) prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Scott J. Nally
Director



Draft Title V Permit
Ford Motor Company, Cleveland Engine Plants
Permit Number: P0095225
Facility ID: 1318120179
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

(Authority for term: ORC 3704.036(A))

2. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit), the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(i))

- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

(Authority for term: OAC rule 3745-77-07(A)(3)(b)(ii))



- c) The permittee shall submit required reports in the following manner:
- (1) All reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations caused by malfunctions shall be submitted in the following manner:

Any malfunction, as defined in OAC rule 3745-15-06(B)(1), shall be promptly reported to the Ohio EPA in accordance with OAC rule 3745-15-06. In addition, to fulfill the OAC rule 3745-77-07(A)(3)(c) deviation reporting requirements for malfunctions, written reports that identify each malfunction that occurred during each calendar quarter (including each malfunction reported only verbally in accordance with OAC rule 3745-15-06) shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year in accordance with Standard Term and Condition A.2.c)(2) below; and each report shall cover the previous calendar quarter. An exceedance of the visible emission limitations specified in OAC rule 3745-17-07(A)(1) that is caused by a malfunction is not a violation and does not need to be reported as a deviation if the owner or operator of the affected air contaminant source or air pollution control equipment complies with the requirements of OAC rule 3745-17-07(A)(3)(c).

In accordance with OAC rule 3745-15-06, a malfunction reportable under OAC rule 3745-15-06(B) is a deviation of the federally enforceable permit requirements. Even though verbal notifications and written reports are required for malfunctions pursuant to OAC rule 3745-15-06, the written reports required pursuant to this term must be submitted quarterly to satisfy the prompt reporting provision of OAC rule 3745-77-07(A)(3)(c).

In identifying each deviation caused by a malfunction, the permittee shall specify the emission limitation(s) (or control requirement(s)) for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. For a specific malfunction, if this information has been provided in a written report that was submitted in accordance with OAC rule 3745-15-06, the permittee may simply reference that written report to identify the deviation. Nevertheless, all malfunctions, including those reported only verbally in accordance with OAC rule 3745-15-06, must be reported in writing on a quarterly basis.

Any scheduled maintenance, as referenced in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described above for malfunctions.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (2) Except as may otherwise be provided in the terms and conditions for a specific emissions unit (i.e., in section C. Emissions Unit Terms and Conditions of this Title V permit or, in some cases, in section B. Facility-Wide Terms and Conditions of this Title V permit), all reporting required in accordance with OAC rule 3745-77-07(A)(3)(c) for deviations of the emission limitations, operational restrictions, and control device operating parameter limitations shall be submitted in the following manner:

Written reports of (a) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, (b) the probable cause of such deviations, and (c) any corrective actions or preventive



measures taken, shall be promptly made to the appropriate Ohio EPA District Office or local air agency. Except as provided below, the written reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

In identifying each deviation, the permittee shall specify the emission limitation(s), operational restriction(s), and/or control device operating parameter limitation(s) for which the deviation occurred, describe each deviation, and provide the estimated magnitude and duration of each deviation.

These written deviation reports shall satisfy the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations. Full compliance with OAC rule 3745-77-07(A)(3)(c) requires reporting of all other deviations of the federally enforceable requirements specified in the permit as required by such rule.

If an emissions unit has a deviation reporting requirement for a specific emission limitation, operational restriction, or control device operating parameter limitation that is not on a quarterly basis (e.g., within 30 days following the end of the calendar month, or within 30 or 45 days after the exceedance occurs), that deviation reporting requirement satisfies the reporting requirements specified in this Standard Term and Condition for that specific emission limitation, operational restriction, or control device parameter limitation. Following the provisions of that non-quarterly deviation reporting requirement will also satisfy (for the deviations so reported) the requirements of OAC rule 3745-77-07(A)(3)(c) pertaining to the submission of monitoring reports every six months and to the prompt reporting of all deviations, and additional quarterly deviation reports for that specific emission limitation, operational restriction, or control device parameter limitation are not required pursuant to this Standard Term and Condition.

See A.29 below if no deviations occurred during the quarter.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

- (3) All reporting required in accordance with the OAC rule 3745-77-07(A)(3)(c) for other deviations of the federally enforceable permit requirements which are not reported in accordance with Standard Term and Condition A.2)c)(2) above shall be submitted in the following manner:

Unless otherwise specified by rule, written reports that identify deviations of the following federally enforceable requirements contained in this permit; Standard Terms and Conditions: A.3, A.4, A.5, A.7.e), A.8, A.13, A.15, A.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted (i.e., postmarked) to the appropriate Ohio EPA District Office or local air agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally enforceable requirements not specifically addressed by permit or rule for the



insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

In identifying each deviation, the permittee shall specify the federally enforceable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation.

These semi-annual and annual written reports shall satisfy the reporting requirements of OAC rule 3745-77-07(A)(3)(c) for any deviations from the federally enforceable requirements contained in this permit that are not reported in accordance with Standard Term and Condition A.2.c)(2) above.

If no such deviations occurred during a six-month period, the permittee shall submit a semi-annual report which states that no such deviations occurred during that period.

(Authority for term: OAC rules 3745-77-07(A)(3)(c)(i) and (ii) and OAC rule 3745-77-07(A)(13)(b))

- (4) Each written report shall be signed by a responsible official certifying that, "based on information and belief formed after reasonable inquiry, the statements and information in the report (including any written malfunction reports required by OAC rule 3745-15-06 that are referenced in the deviation reports) are true, accurate, and complete."

(Authority for term: OAC rule 3745-77-07(A)(3)(c)(iv))

- (5) Reports of any required monitoring and/or record keeping information shall be submitted to Cleveland Division of Air Quality.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

3. Scheduled Maintenance

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. Except as provided in OAC rule 3745-15-06(A)(3), any scheduled maintenance necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s). Any scheduled maintenance, as defined in OAC rule 3745-15-06(A)(1), that results in a deviation from a federally enforceable emission limitation (or control requirement) shall be reported in the same manner as described for malfunctions in Standard Term and Condition A.2.c)(1) above.

(Authority for term: OAC rule 3745-77-07(A)(3)(c))

4. Risk Management Plans

If applicable, the permittee shall develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. § 7401 et seq. ("Act"); and, pursuant to 40 C.F.R. 68.215(a), the permittee shall submit either of the following:



- a) a compliance plan for meeting the requirements of 40 C.F.R. Part 68 by the date specified in 40 C.F.R. 68.10(a) and OAC 3745-104-05(A); or
- b) as part of the compliance certification submitted under 40 C.F.R. 70.6(c)(5), a certification statement that the source is in compliance with all requirements of 40 C.F.R. Part 68 and OAC Chapter 3745-104, including the registration and submission of the risk management plan.

(Authority for term: OAC rule 3745-77-07(A)(4))

5. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

(Authority for term: OAC rule 3745-77-07(A)(5))

6. Severability Clause

A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.

(Authority for term: OAC rule 3745-77-07(A)(6))

7. General Requirements

- a) The permittee must comply with all terms and conditions of this permit. Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and reissuance, or modification, or for denial of a permit renewal application.
- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with Standard Term and Condition A.11 below. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the



Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

- f) Except as otherwise indicated below, this Title V permit, or permit modification, is effective for five years from the original effective date specified in the permit. In the event that this facility becomes eligible for non-title V permits, this permit shall cease to be enforceable when:
- (1) the permittee submits an approved facility-wide potential to emit analysis supporting a claim that the facility no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

The permittee shall continue to comply with all applicable OAC Chapter 3745-31 requirements for all regulated air contaminant sources once this permit ceases to be enforceable. The permittee shall comply with any residual requirements, such as quarterly deviation reports, semi-annual deviation reports, and annual compliance certifications covering the period during which this Title V permit was enforceable. All records relating to this permit must be maintained in accordance with law.

(Authority for term: OAC rule 3745-77-01(W), OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77(A)(7))

8. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78.

(Authority for term: OAC rule 3745-77-07(A)(8))

9. Marketable Permit Programs

No revision of this permit is required under any approved economic incentive, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in this permit.

(Authority for term: OAC rule 3745-77-07(A)(9))

10. Reasonably Anticipated Operating Scenarios

The permittee is hereby authorized to make changes among operating scenarios authorized in this permit without notice to the Ohio EPA, but, contemporaneous with making a change from one operating scenario to another, the permittee must record in a log at the permitted facility the scenario under which the permittee is operating. The permit shield provided in these standard terms and conditions shall apply to all operating scenarios authorized in this permit.



(Authority for term: OAC rule 3745-77-07(A)(10))

11. Reopening for Cause

This Title V permit will be reopened prior to its expiration date under the following conditions:

- a) Additional applicable requirements under the Act become applicable to one or more emissions units covered by this permit, and this permit has a remaining term of three or more years. Such a reopening shall be completed not later than eighteen (18) months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to paragraph (E)(1) of OAC rule 3745-77-08.
- b) This permit is issued to an affected source under the acid rain program and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit, and shall not require a reopening of this permit.
- c) The Director of the Ohio EPA or the Administrator of the U.S. EPA determines that the federally applicable requirements in this permit are based on a material mistake, or that inaccurate statements were made in establishing the emissions standards or other terms and conditions of this permit related to such federally applicable requirements.
- d) The Administrator of the U.S. EPA or the Director of the Ohio EPA determines that this permit must be revised or revoked to assure compliance with the applicable requirements.

(Authority for term: OAC rules 3745-77-07(A)(12) and 3745-77-08(D))

12. Federal and State Enforceability

Only those terms and conditions designated in this permit as federally enforceable, that are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA, the State, and citizens under the Act. All other terms and conditions of this permit shall not be federally enforceable and shall be enforceable under State law only.

(Authority for term: OAC rule 3745-77-07(B))

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a responsible official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.
- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.



- (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the appropriate Ohio EPA District Office or local air agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted (i.e., postmarked) on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. An identification of each term or condition of this permit that is the basis of the certification.
 - b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period.
 - e. Such other facts as the Director of the Ohio EPA may require in the permit to determine the compliance status of the source.
 - (3) Compliance certifications shall contain such additional requirements as may be specified pursuant to sections 114(a)(3) and 504(b) of the Act.



(Authority for term: OAC rules 3745-77-07(C)(1),(2),(4) and (5) and ORC section 3704.03(L))

14. Permit Shield

- a) Compliance with the terms and conditions of this permit (including terms and conditions established for alternate operating scenarios, emissions trading, and emissions averaging, but excluding terms and conditions for which the permit shield is expressly prohibited under OAC rule 3745-77-07) shall be deemed compliance with the applicable requirements identified and addressed in this permit as of the date of permit issuance.
- b) This permit shield provision shall apply to any requirement identified in this permit pursuant to OAC rule 3745-77-07(F)(2), as a requirement that does not apply to the source or to one or more emissions units within the source.

(Authority for term: OAC rule 3745-77-07(F))

15. Operational Flexibility

The permittee is authorized to make the changes identified in OAC rule 3745-77-07(H)(1)(a) to (H)(1)(c) within the permitted stationary source without obtaining a permit revision, if such change is not a modification under any provision of Title I of the Act [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the appropriate Ohio EPA District Office or local air agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the appropriate District Office of the Ohio EPA or local air agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

(Authority for term: OAC rules 3745-77-07(H)(1) and (2))

16. Emergencies

The permittee shall have an affirmative defense of emergency to an action brought for noncompliance with technology-based emission limitations if the conditions of OAC rule 3745-77-07(G)(3) are met. This emergency defense provision is in addition to any emergency or upset provision contained in any applicable requirement.

(Authority for term: OAC rule 3745-77-07(G))

17. Off-Permit Changes

The owner or operator of a Title V source may make any change in its operations or emissions at the source that is not specifically addressed or prohibited in the Title V permit, without obtaining an amendment or modification of the permit, provided that the following conditions are met:

- a) The change does not result in conditions that violate any applicable requirements or that violate any existing federally enforceable permit term or condition.



- b) The permittee provides contemporaneous written notice of the change to the Director and the Administrator of the U.S. EPA, except that no such notice shall be required for changes that qualify as insignificant emissions levels or activities as defined in OAC rule 3745-77-01(U). Such written notice shall describe each such change, the date of such change, any change in emissions or pollutants emitted, and any federally applicable requirement that would apply as a result of the change.
- c) The change shall not qualify for the permit shield under OAC rule 3745-77-07(F).
- d) The permittee shall keep a record describing all changes made at the source that result in emissions of a regulated air pollutant subject to an applicable requirement, but not otherwise regulated under the permit, and the emissions resulting from those changes.
- e) The change is not subject to any applicable requirement under Title IV of the Act or is not a modification under any provision of Title I of the Act.

Paragraph (I) of rule 3745-77-07 of the Administrative Code applies only to modification or amendment of the permittee's Title V permit. The change made may require a permit-to-install under Chapter 3745-31 of the Administrative Code if the change constitutes a modification as defined in that Chapter. Nothing in paragraph (I) of rule 3745-77-07 of the Administrative Code shall affect any applicable obligation under Chapter 3745-31 of the Administrative Code.

(Authority for term: OAC rule 3745-77-07(I))

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 Fed. Reg. 8314, Feb. 24, 1997), in the context of any future proceeding.

(This term is provided for informational purposes only.)

19. Insignificant Activities or Emissions Levels

Each IEU that has one or more applicable requirements shall comply with those applicable requirements.

(Authority for term: OAC rule 3745-77-07(A)(1))

20. Permit to Install Requirement

Prior to the "installation" or "modification" of any "air contaminant source," as those terms are defined in OAC rule 3745-31-01, a permit to install must be obtained from the Ohio EPA pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-07(A)(1))



21. Air Pollution Nuisance

The air contaminants emitted by the emissions units covered by this permit shall not cause a public nuisance, in violation of OAC rule 3745-15-07.

(Authority for term: OAC rule 3745-77-07(A)(1))

22. Permanent Shutdown of an Emissions Unit

The permittee may notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification from the responsible official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the responsible official that the emissions unit was permanently shut down.

After the date on which an emissions unit is permanently shut down (i.e., that has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31 and therefore ceases to meet the definition of an "emissions unit" as defined in OAC rule 3745-77-01(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

No emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit to install pursuant to OAC Chapter 3745-31.

(Authority for term: OAC rule 3745-77-01)

23. Title VI Provisions

If applicable, the permittee shall comply with the standards for recycling and reducing emissions of ozone depleting substances pursuant to 40 CFR Part 82, Subpart F, except as provided for motor vehicle air conditioners in Subpart B of 40 CFR Part 82:

- a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices specified in 40 CFR 82.156.
- b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment specified in 40 CFR 82.158.
- c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR 82.161.

(Authority for term: OAC rule 3745-77-01(H)(11))



24. Reporting Requirements Related to Monitoring and Record Keeping Requirements Under State Law Only

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or record keeping information shall be submitted to the appropriate Ohio EPA District Office or local air agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

25. Records Retention Requirements Under State Law Only

Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.

26. Inspections and Information Requests

The Director of the Ohio EPA, or an authorized representative of the Director, may, subject to the safety requirements of the permittee and without undue delay, enter upon the premises of this source at any reasonable time for purposes of making inspections, conducting tests, examining records or reports pertaining to any emission of air contaminants, and determining compliance with any applicable State air pollution laws and regulations and the terms and conditions of this permit. The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying, reopening or revoking this permit or to determine compliance with this permit. Upon verbal or written request, the permittee shall also furnish to the Director of the Ohio EPA, or an authorized representative of the Director, copies of records required to be kept by this permit.

(Authority for term: OAC rule 3745-77-07(C))



27. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction of any emissions units or any associated air pollution control system(s) shall be reported to the appropriate Ohio EPA District Office or local air agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The appropriate Ohio EPA District Office or local air agency must be notified in writing of any transfer of this permit.

(Authority for term: OAC rule 3745-77-01(C))

29. Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted (i.e., postmarked) by January 31, April 30, July 31, and October 31 of each year; and each report shall cover the previous calendar quarter.

The permittee is not required to submit a quarterly report which states that no deviations occurred during that quarter for the following situations:

- a) where an emissions unit has deviation reporting requirements for a specific emission limitation, operational restriction, or control device parameter limitation that override the deviation reporting requirements specified in Standard Term and Condition A.2.c)(2); or
- b) where an uncontrolled emissions unit has no monitoring, record keeping, or reporting requirements and the emissions unit's applicable emission limitations are established at the potentials to emit; or
- c) where the company's responsible official has certified that an emissions unit has been permanently shut down.



Draft Title V Permit
Ford Motor Company, Cleveland Engine Plants
Permit Number: P0095225
Facility ID: 1318120179
Effective Date: To be entered upon final issuance

B. Facility-Wide Terms and Conditions



1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:

a) None.

2. The following insignificant emissions units are located at this facility:

P258 CEP 2 Cylinder Block Operations 130N, 130S – PTI 13-2520 issued 8/5/1992

P263 CEP 2 Crankshaft Operations 230, 250 – Installed in 1992

P275 CEP 2 Camshaft Operation 40 – Installed in 1992

The following emissions units need to be added to the list of insignificant emissions units above pending resolution of the facility profile:

From PTI P0105372 issued 11/3/2009: P048, P052 – P055, P061, P064

From PTI 13-03895 issued 4/3/2003: P049 – P051, P056 – P060, P062, P063

Additional emissions units: P301 – P303, B258, B259, Z301 – Z311, P285 – P294

Each insignificant emissions unit at this facility must comply with all applicable State and Federal regulations, as well as any emissions limitations and/or control requirements contained within a permit-to-install for that emissions unit. Insignificant emissions units listed above that are not subject to specific permit-to-install requirements are subject to one or more applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

[Authority for term: OAC rule 3745-77-07(A)(13)]

3. The following emissions unit contained in this permit is subject to 40 CFR Part 63, Subpart DDDDD, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters: B301, B302 and B303. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://ecfr.gpoaccess.gov> or by contacting the Cleveland Division of Air Quality (Cleveland DAQ). ***Include pending HAP potential to emit analysis.***

4. The following emissions unit contained in this permit is subject to 40 CFR Part 63, Subpart PTTTT, National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands: P245. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website at <http://ecfr.gpoaccess.gov> or by contacting the Cleveland Division of Air Quality (Cleveland DAQ). ***Include pending HAP potential to emit analysis.***

5. Pursuant to 40 CFR Part 64, the permittee has submitted and the Ohio EPA has approved a compliance assurance monitoring (CAM) plan for emissions units P245. The permittee shall comply with the provisions of the plan during any operation of the aforementioned emissions unit.



Draft Title V Permit
Ford Motor Company, Cleveland Engine Plants
Permit Number: P0095225
Facility ID: 1318120179
Effective Date: To be entered upon final issuance

[Authority for term: 40 CFR Part 64]



Draft Title V Permit
Ford Motor Company, Cleveland Engine Plants
Permit Number: P0095225
Facility ID: 1318120179
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. B301, Boiler #3

Operations, Property and/or Equipment Description:

Boiler No. 3 (122 MMBtu/hr) - Convert from coal to natural gas firing to comply with NESHAPS (MACT) 40 CFR 63 Subpart DDDDD for Boilers and Process Heaters. Emissions unit formerly known as B022 transferred from facility 1318120180 which was shutdown.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-04657 issued 11/14/2006	12.2 pounds NOx/hour and 53.44 tons NOx/year 10.25 pounds CO/hour and 44.89 tons CO/year See b)(2)a. below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-10(B)(1) and 40 CFR Part 63, Subpart DDDDD.
b.	OAC rule 3745-31-05(F)	4.06 TPY PE and 0.32 TPY SO ₂ See b)(2)b. below.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed 20 % opacity, as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	OAC rule 3745-18-06(A)	Exempt pursuant to OAC rule 3745-18-06(A) when burning only natural gas.
f.	OAC rule 3745-18-24(Z)	4.2 lbs SO ₂ /MMBtu
g.	OAC rule 110-03(C)	0.10 lbNO _x /MMBtu
h.	OAC rule 3745-31-10(C)(1)	See b)(2)c. below.
i.	40 CFR Part 63 Subpart DDDDD	See b)(2)d. below.
j.	ORC 3714.03(T)(4)	See b)(2)e. below.

(2) Additional Terms and Conditions

- a. This emissions unit is required to be equipped with Low-NO_x burners.

The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.

- b. The potential to emit based on the allowable limits from OAC rules 3745-17-10(C)(1) and 3745-18-24(Z) is each greater than 10 tons/year. In order to ensure that the potential to emit for this emissions unit remains below 10 tons/year of particulate emissions (PE) and sulfur dioxide (SO₂) emissions, the permittee has requested a voluntary emission limit at the uncontrolled potential to emit.
- c. The permittee has maintained records for the required 5-year period (11/2006 – 11/2011) that demonstrated that the amount of emissions increase, which is the difference between the future projected actual emissions and current actual emissions, as a result of the 2006 modification was less than 40 tons NO_x/year.
- d. There are no emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, record keeping and reporting requirements from Subpart DDDDD or any other requirements from Subpart A of 40 CFR Part 63 that are applicable to this existing large gas-fired boiler pursuant to 40 CFR Part 63.7506(b), Subpart DDDDD. The permittee is only subject to the initial notification requirements in 40 CFR Part 63.9(b).
- e. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, SO₂, and VOC emissions from this emissions unit since the uncontrolled potential to emit for these pollutants is each less than ten tons per year.



c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 13-04657]

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Authority for term: OAC rule 3745-3745-77-07(A)(3), PTI 13-04657]

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-3745-77-07(A)(3), PTI 13-04657]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-3745-77-07(C)(1)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 12.2 pounds/hour.

Applicable Compliance Method

Compliance with the hourly emission limitation may be determined by multiplying the emissions unit's maximum hourly natural gas usage (0.122 MMcf/hour) by the emission factor for NO_x determined from the most recent stack test. Alternatively use the emission factor provided by the Low-NO_x manufacturer's guarantee (0.10 lbNO_x/MMBtu x 1000 Btu/cf = 100 lbsNO_x/MMcf), or use an emission factor from the most recent edition of USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Table 1.4-2 (7/98) for natural gas (pounds NO_x/MMcf).



If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

b. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 53.44 tons /year.

Applicable Compliance Method

The annual emission limitation was established by multiplying the maximum hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

c. Emission Limitation

CO emissions from the combustion of natural gas shall not exceed 10.25 pounds CO/hour.

Applicable Compliance Method

Compliance with the hourly emission limitation may be determined by multiplying the emissions unit's maximum hourly natural gas usage (0.122 MMcf/hour) by the emission factor for CO from the most recent stack test, or use the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4-2 (7/98) for natural gas (84 lbs CO/MMcf).

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 10 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

d. Emission Limitation

CO emissions from the combustion of natural gas shall not exceed 44.89 tons CO/year

Applicable Compliance Method

The annual emission limitation was established by multiplying the maximum hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour



emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

e. Emission Limitation

PE emissions from the combustion of natural gas shall not exceed 4.06 tons PE/year

Applicable Compliance Method

The annual emission limitation was established based on the potential to emit using the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4 -2 (7/98) for natural gas (0.0076 lbs PE/MMcf) in accordance with the following calculation:

$$122 \text{ MMBtu/hr} \times 0.0076 \text{ lb PE/MMBtu} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 4.06 \text{ TPY PE}$$

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

f. Emission Limitation

SO₂ emissions from the combustion of natural gas shall not exceed 0.32 ton SO₂/year

Applicable Compliance Method

The annual emission limitation was established based on the potential to emit using the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4 -2 (7/98) for natural gas (0.0006 lbs SO₂/MMcf) in accordance with the following calculation:

$$122 \text{ MMBtu/hr} \times 0.0006 \text{ lb SO}_2\text{/MMBtu} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.32 \text{ TPY}$$

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

g. Emission Limitation

PE emissions from the combustion of natural gas shall not exceed 0.020 lb PE/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing conducted in accordance with USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]



h. Emission Limitation

SO₂ emissions from the combustion of natural gas shall not exceed 4.2 lbs SO₂/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

i. Emission Limitation

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

j. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 0.1 lbNO_x/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

(2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 12 months after issuance of this permit.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable hourly mass rate of emissions for nitrogen oxide and carbon monoxide.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):



NOx: Methods 1 – 4 and 7 of 40 CFR Part 60, Appendix A; and

CO: Methods 1 – 4 and 10 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (Cleveland DAQ).
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).
- f. Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 60 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

[Authority for term: OAC rule 3745-77-01(C)(1)]

g) Miscellaneous Requirements

- (1) None.



2. B302, Boiler # 4

Operations, Property and/or Equipment Description:

Boiler No. 4 (122 MMBtu/hr) - Convert from coal to natural gas firing to comply with NESHAPS (MACT) 40 CFR 63 Subpart DDDDD for Boilers and Process Heaters. Emissions unit formerly known as B023 transferred from facility 1318120180 which was shutdown.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-04657 issued 11/14/2006	12.2 pounds NOx/hour and 53.44 tons NOx/year 10.25 pounds CO/hour and 44.89 tons CO/year See b)(2)a. below. The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A)(1) and 3745-17-10(B)(1) and 40 CFR Part 63, Subpart DDDDD.
b.	OAC rule 3745-31-05(F)	4.06 TPY PE and 0.32 TPY SO ₂ See b)(2)b. below.
c.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed 20 % opacity, as a six-minute average, except as specified by rule.
d.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu
e.	OAC rule 3745-18-06(A)	Exempt pursuant to OAC rule 3745-18-06(A) when burning only natural gas.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
f.	OAC rule 3745-18-24(Z)	4.2 lbs SO ₂ /MMBtu
g.	OAC rule 110-03(C)	0.10 lbNO _x /MMBtu
h.	OAC rule 3745-31-10(C)(1) "Future Projected Actual" emissions	See b)(2)c. below.
i.	40 CFR Part 63, Subpart DDDDD	See b)(2)d. below.
j.	ORC 3704.03(T)(4)	See b)(2)e. below

(2) Additional Terms and Conditions

- a. This emissions unit is required to be equipped with Low-NO_x burners.

The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance with these emission limitations.

- b. The potential to emit based on the allowable limits from OAC rules 3745-17-10(C)(1) and 3745-18-24(Z) is each greater than 10 tons/year. In order to ensure that the potential to emit for this emissions unit remains below 10 tons/year of particulate emissions (PE) and sulfur dioxide (SO₂) emissions, the permittee has requested a voluntary emission limit at the uncontrolled potential to emit.
- c. The permittee has maintained records for the required 5-year period (11/2006 – 11/2011) that demonstrated that the amount of emissions increase, which is the difference between the future projected actual emissions and current actual emissions, as a result of the 2006 modification was less than 40 tons NO_x/year.
- d. There are no emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, record keeping and reporting requirements from Subpart DDDDD or any other requirements from Subpart A of 40 CFR Part 63 that are applicable to this existing large gas-fired boiler pursuant to 40 CFR Part 63.7506(b), Subpart DDDDD. The permittee is only subject to the initial notification requirements in 40 CFR Part 63.9(b).
- e. The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE, SO₂, and VOC emissions from this emissions unit since the uncontrolled potential to emit for these pollutants is each less than ten tons per year.



c) Operational Restrictions

- (1) The permittee shall burn only natural gas in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 13-04657]

d) Monitoring and/or Recordkeeping Requirements

- (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04657]

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04657]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04657]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 12.2 pounds/hour.

Applicable Compliance Method

Compliance with the hourly emission limitation may be determined by multiplying the emissions unit's maximum hourly natural gas usage (0.122 MMcf/hour) by the emission factor for NO_x determined from the most recent stack test. Alternatively use the emission factor provided by the Low-NO_x manufacturer's guarantee (0.10 lbNO_x/MMBtu x 1000 Btu/cf = 100 lbsNO_x/MMcf), or use an emission factor from the most recent edition of USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Table 1.4-2 (7/98) for natural gas (pounds NO_x/MMcf).



If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with the USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

b. Emission Limitation

NOx emissions from the combustion of natural gas shall not exceed 53.44 tons /year.

Applicable Compliance Method

The annual emission limitation was established by multiplying the maximum hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

c. Emission Limitation

CO emissions from the combustion of natural gas shall not exceed 10.25 pounds CO/hour.

Applicable Compliance Method

Compliance with the hourly emission limitation may be determined by multiplying the emissions unit's maximum hourly natural gas usage (0.122 MMcf/hour) by the emission factor for CO from the most recent stack test, or use the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4-2 (7/98) for natural gas (84 lbs CO/MMcf).

If required, the permittee shall demonstrate compliance with the hourly emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 10 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

d. Emission Limitation

CO emissions from the combustion of natural gas shall not exceed 44.89 tons CO/year

Applicable Compliance Method

The annual emission limitation was established by multiplying the maximum hourly emission limitation by 8760 hours per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour



emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

e. Emission Limitation

PE emissions from the combustion of natural gas shall not exceed 4.06 tons PE/year

Applicable Compliance Method

The annual emission limitation was established based on the potential to emit using the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4 -2 (7/98) for natural gas (0.0076 lbs PE/MMcf) in accordance with the following calculation:

$$122 \text{ MMBtu/hr} \times 0.0076 \text{ lb PE/MMBtu} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 4.06 \text{ TPY PE}$$

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

f. Emission Limitation

SO₂ emissions from the combustion of natural gas shall not exceed 0.32 ton SO₂/year

Applicable Compliance Method

The annual emission limitation was established based on the potential to emit using the emission factor from USEPA's Compilation of Air Pollutant Emission Factors, AP-42, Fifth Edition, Table 1.4 -2 (7/98) for natural gas (0.0006 lbs SO₂/MMcf) in accordance with the following calculation:

$$122 \text{ MMBtu/hr} \times 0.0006 \text{ lb SO}_2\text{/MMBtu} \times 8760 \text{ hrs/yr} \times \text{ton}/2000 \text{ lbs} = 0.32 \text{ TPY}$$

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

g. Emission Limitation

PE emissions from the combustion of natural gas shall not exceed 0.020 lb PE/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the hourly emission limitation through emission testing conducted in accordance with USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]



h. Emission Limitation

SO₂ emissions from the combustion of natural gas shall not exceed 4.2 lbs SO₂/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

i. Emission Limitation

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

j. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 0.1 lbNO_x/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]

(2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:

- a. The emission testing shall be conducted within 12 months after issuance of this permit.
- b. The emission testing shall be conducted to demonstrate compliance with the allowable hourly mass rate of emissions for nitrogen oxide and carbon monoxide.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):



NOx: Methods 1 – 4 and 7 of 40 CFR Part 60, Appendix A; and

CO: Methods 1 – 4 and 10 of 40 CFR Part 60, Appendix A.

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.

- d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (Cleveland DAQ).
- e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).
- f. Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 60 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

[Authority for term: OAC rule 3745-77-01(C)(1)]

g) Miscellaneous Requirements

- (1) None.



3. B303, Boiler # 5

Operations, Property and/or Equipment Description:

Boiler No. 5 (122 MMBtu/hr) - Emissions unit formerly known as B024 transferred from facility 1318120180 which was shutdown.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions (PE) from any stack serving this emissions unit shall not exceed 20 % opacity, as a six-minute average, except as specified by rule.
b.	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu.
c.	OAC rule 3745-18-06(A)	Exempt pursuant to OAC rule 3745-18-06(A) when burning only natural gas.
d.	OAC rule 3745-18-24(Z)	4.2 lbs SO ₂ /MMBtu.
e.	OAC rule 110-03(C)	0.10 lb NO _x /MMBtu
f.	40 CFR Part 63, Subpart DDDDD	See b)(2)b. below.

(2) Additional Terms and Conditions

a. This emissions unit is required to be equipped with Low-NO_x burners.

The pound/hour and ton/year emission limitations are based on the emissions unit's potentials to emit while burning natural gas. Therefore, no monitoring, record keeping, or reporting requirements are necessary to ensure compliance



with these emission limitations.

- b. There are no emission limits, work practice standards, performance testing, monitoring, SSMP, site-specific monitoring plans, record keeping and reporting requirements from Subpart DDDDD or any other requirements from Subpart A of 40 CFR Part 63 that are applicable to this existing large gas-fired boiler pursuant to 40 CFR Part 63.7506(b), Subpart DDDDD. The permittee is only subject to the initial notification requirements in 40 CFR Part 63.9(b).

- c) Operational Restrictions
 - (1) The permittee shall burn only natural gas in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(1)]

- d) Monitoring and/or Recordkeeping Requirements
 - (1) For each day during which the permittee burns a fuel other than natural gas, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
[Authority for term: OAC rule 3745-77-07(A)(3)]

- e) Reporting Requirements
 - (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
[Authority for term: OAC rule 3745-77-07(A)(3)]
 - (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
[Authority for term: OAC rule 3745-77-07(A)(3)]

- f) Testing Requirements
 - (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation

PE emissions from the combustion of natural gas shall not exceed 0.020 lb PE/MMBtu



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitation through emission testing conducted in accordance with USEPA test methods 1 through 5 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

SO₂ emissions from the combustion of natural gas shall not exceed 4.2 lbs SO₂/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 6 found in 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-01(C)(1)]

c. Emission Limitation

Visible PE shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rule 3745-77-07(C)(1)]

d. Emission Limitation

NO_x emissions from the combustion of natural gas shall not exceed 0.1 lbNO_x/MMBtu

Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the lb./MMBtu emission limitations through emission testing conducted in accordance with USEPA test methods 1 through 4 and 7 found in 40 CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04657]



- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 12 months after issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the allowable hourly mass rate of emissions for nitrogen oxide and carbon monoxide.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

NOx: Methods 1 – 4 and 7 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Cleveland Division of Air Quality (Cleveland DAQ).
 - e. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).
 - f. Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
 - g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 60 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

[Authority for term: OAC rule 3745-77-01(C)(1)]

g) Miscellaneous Requirements

- (1) None.



4. P245, CEP 2 Dynamometer Engine Test Facility

Operations, Property and/or Equipment Description:

CEP 2 Dynamometer Engine Test Facility – consists of 3 engine test laboratory cells, body & assembly cell – controlled by recuperative thermal oxidizer with interlock.

- a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) PTI 13-04567 issued 12/2/2005	Emissions of organic compounds/VOCs shall not exceed 1.9 pound/hour and 8.3 tons/year. Emissions of nitrogen oxides shall not exceed 29.8 pounds/hour and 130.5 tons/year. See b)(2)a. below. Emissions of carbon monoxide shall not exceed 27.5 pounds/hour and 120.5 tons/year. See b)(2)b. and c)(1) below. PE/PM ₁₀ emissions shall not exceed 0.92 lb/hr and 4.1 tons/year. Emissions of sulfur dioxide shall not exceed 0.73 lb/hr and 3.2 tons/year.
b.	OAC rule 3745-17-07(A)	See b)(2)c. below.
c.	OAC rule 3745-17-11(B)(1)	See b)(2)d. below.



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-18-06(G)	The sulfur dioxide emission limitation established by this rule is less stringent than the sulfur dioxide emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
e.	OAC rule 3745-31-10(C)(1) "Future Projected Actual" emissions	See b)(2)a. below.
f.	40 CFR Part 63, Subpart P	limit the concentration of CO or THC to 20 ppmvd or less (corrected to 15 percent O ₂ content); or achieve a reduction in CO or THC of 96 percent or more between the inlet and outlet concentrations (corrected to 15 percent O ₂ content) of the emission control device.
g.	40 CFR Part 63, Subpart A General Provisions	Table 7 to 40 CFR, Part 63, Subpart P – Applicability of General Provisions to Subpart P shows which parts of the General Provisions in 40 CFR 63.1-16 apply.
h.	40 CFR Part 64 Compliance Assurance Monitoring (CAM)	See c)(1), d)(1), d)(2), d)(5), and e)(2) below.

(2) Additional Terms and Conditions

- a. The permittee has proposed that the amount of emissions increase, which is the difference between the future projected actual emissions and current actual emissions, as a result of this modification will be less than 40 tons NO_x/year and 100 tons CO/year. In accordance with OAC rule 3745-31-10(C)(3), the permittee will have to maintain records for the next 10 years that demonstrate that the amount of actual emissions increase stays below these major modification thresholds since the potential to emit for this emissions unit has increased as a result of this modification.
- b. Engine exhaust CO emissions from this emissions unit shall be incinerated at not less than 1400 degrees Fahrenheit for 0.3 (by design) second or longer in a natural gas-fired direct-flame (recuperative) thermal oxidizer that achieves a minimum 95%, by weight, control (destruction) efficiency of the CO emissions when operated at maximum production conditions. The thermal oxidizer shall be



equipped with a continuous temperature monitor with visual readout at the operators work station, recorder, controller, and an interlocking device.

In order to ensure that all engine exhaust CO emissions from this emissions unit are incinerated at not less than 1400 degrees Fahrenheit, the permittee shall utilize an interlock system associated with the thermal oxidizer's combustion temperature. If the thermal oxidizer's combustion temperature drops below 1400 degrees Fahrenheit, then the emissions unit shall be shutdown until the thermal oxidizer's combustion temperature is above 1400 degrees Fahrenheit.

- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero*.

* The only material introduced into the process is unleaded gasoline which is solely used as fuel for the purpose of combustion.

c) Operational Restrictions

- (1) The average combustion chamber temperature within the thermal oxidizer, for any 3-hour block of time when the emissions unit is in operation, shall not be less than 1,400 degrees Fahrenheit.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 13-04567]

- (2) The permittee shall operate and maintain an interlocking device that does not allow any dynamometer to startup or operate unless the thermal oxidizer temperature is maintained at no less than 1,400 degrees Fahrenheit.

[Authority for term: OAC rule 3745-77-07(A)(1), PTI 13-04567]

- (3) The permittee shall comply with the applicable operational restrictions and requirements under 40 CFR, Part 63, Subpart P, including the following sections:

63.9301	Options for meeting the emission limits.
63.9302	Operating limits.

[Authority for term: 40 CFR Part 63, Subpart P]



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall operate and maintain a continuous temperature monitor, recorder (either electronic or paper), and controller which measures, records (at least once every 15 minutes), and controls the thermal oxidizer combustion chamber temperature, in degrees Fahrenheit, when the emissions unit is in operation. The monitoring, recording, and controlling devices shall be capable of accurately measuring, recording, and controlling the desired parameter. The temperature monitor, recorder, and controller shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, with any modifications deemed necessary by the permittee.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04567]

- (2) The permittee shall maintain daily records of the thermal oxidizer combustion chamber temperature, in degrees Fahrenheit, when the emissions unit was in operation. (It shall not be considered a deviation of this monitoring requirement if the ink does not mark on the paper and the interlock is functioning properly.)

The permittee shall collect and record the following information for each day:

- a. all 3-hour blocks of time during which the average combustion chamber temperature within the thermal oxidizer, when the emissions unit was in operation, was less than 1400 degrees Fahrenheit; and
- b. a log (date and total time) of the downtime or bypass of the capture (collection) system and thermal oxidizer, and/or downtime of the monitoring equipment, when the associated emissions unit(s) was/were in operation.

[Authority for term: OAC rule 3745-77-07(A)(3), 40 CFR 64.3, 40 CFR 64.7(c), 40 CFR 64.9(b), PTI 13-04567]

- (3) The permittee shall maintain a log of the activation of the interlock system when the emissions unit is not shut down. This log shall include the date, time and duration of each such period.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04567]

- (4) The permittee shall, on a quarterly basis, test the interlock system to ensure that the emissions unit does shut down when the thermal oxidizer's combustion chamber temperature drops below 1400 degrees Fahrenheit. The permittee shall maintain records of the quarterly tests of the interlock system.

[Authority for term: OAC rule 3745-77-07(A)(3), PTI 13-04567]

- (5) The CAM plan for this emissions unit has been developed for VOC emissions. The CAM performance indicator for VOC emissions is the recordkeeping program for the emissions unit and its control equipment.

The CAM performance indicator device to continuously monitor the combustion temperature within the thermal incinerator when the emissions unit is in operation is



specified in c)(1). When the monitoring requirements are outside of any parameters specified in c)(1) and d)(2), corrective action (including, but not limited to, an evaluation of the emissions unit and the control device) will be required.

Upon detecting an excursion of any of the VOC emission indicator parameters listed above, the owner or operator shall restore operation of the emissions unit (including the control devices) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion. Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as thorough response by the computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range.

If a determination is made by the Administrator or Ohio EPA that the permittee has not used acceptable procedures in response to an excursion or exceedance based on the results of a determination made under 40 CFR Part 64.7(d)(2), the permittee may be required to develop a Quality Improvement Plan (QIP) consistent with the requirements of 40 CFR Part 64.8.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 64]

- (6) In accordance with OAC rule 3745-31-10(C)(3), the permittee shall maintain annual records for ten years after the issuance of this permit of the following:
 - a. the gallons of unleaded gasoline consumed; and
 - b. the total NOx emissions for this emissions unit, calculated by multiplying the NOx emission factor established during the most recent emission test that demonstrated that the emissions unit was in compliance by the monthly value from d)a., in tons/year.

[Authority for term: OAC rule 3745-77-07(A)(3), OAC rule 3745-31-10(C)(3), PTI 13-04567]

- (7) The permittee shall comply with the applicable monitoring and record keeping requirements under 40 CFR, Part 63, Subpart P, including the following sections:

63.9306	Continuous parameter monitoring system (CPMS) requirements.
63.9307	Emissions monitoring requirements.
63.9335	Monitor and collect data for continuous compliance.
63.9355	Required records.
63.9360	What form and how long to keep records.



[Authority for term: 40 CFR Part 63, Subpart P] [Authority for term: 40 CFR Part 63, Subpart P] [Authority for term: 40 CFR Part 63, Subpart P] [Authority for term: 40 CFR Part 63, Subpart P] [Authority for term: 40 CFR Part 63, Subpart P]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify all periods of time when the interlock system was activated and the emissions unit was not shut down.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

- (2) The permittee shall submit quarterly temperature deviation (excursion) reports to the Cleveland DAQ that identify all 3-hour blocks of time during which the combustion chamber temperature within the thermal oxidizer did not comply with the temperature limitations specified above.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]]

- (3) The permittee shall submit annual reports to the Cleveland DAQ that specify the total emissions of OC, VOC, NO_x, CO, PE/PM₁₀, and SO₂ from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

- (4) In accordance with OAC rule 3745-31-10(C)(5), the permittee shall submit a deviation report to the Cleveland DAQ if the actual annual emissions, in tons/year, exceed the baseline actual emissions by a significant amount for NO_x and CO as noted in Section b)(2)a. above and if such emissions differ from the preconstruction projection as documented and maintained pursuant to OAC rule 3745-31-10(C)(1)(c). Such report shall be submitted within 60 days after the end of such year. This condition will remain in effect for ten years after the issuance date of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

- (5) The permittee shall submit the required reports in accordance with the Standard Terms and Conditions of this permit.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- (6) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3)]

- (7) The permittee shall comply with the applicable reporting requirements under 40 CFR, Part 63, Subpart P, including the following sections:



63.9345	Notification requirements.
63.9350	Reporting requirements.

[Authority for term: 40 CFR Part 63, Subpart P]]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation

OC/VOC emissions shall not exceed 1.9 lbs OC/VOC/hr.

Applicable Compliance Method

The hourly OC/VOC emission limitation was developed by adding the OC/VOC contributions made by the combustion of gasoline in the dynamometer and the combustion of natural gas in the oxidizer. The contribution by the dynamometer, 1.8 lb/hr, was obtained by multiplying the AP- 42 emission factor 2.1 lb/MMBtu by the heat content of gasoline 0.13 MMBtu/gal and multiplying the product, 0.273 lb/gal, by the theoretical maximum 65.9 gal/hr gasoline consumed in the dynamometer, and then multiplying by (1 - 0.9) to account for the estimated 90% control efficiency of the thermal oxidizer. The contribution by the oxidizer, 0.01 lb/hr, was obtained by dividing the AP- 42 emission factor 11 lb/MMscf by the heat content of natural gas, 1050 MMBtu/MMscf, and multiplying the quotient, 0.0105 lb/MMBtu, by the maximum heating capacity of the oxidizer 8.0 MMBtu/hr. Adding 1.8 and 0.1 gives 1.9 lbs/hr. Future emission calculations shall be done by multiplying a test-derived emission factor from the most recent stack test, in lbs OC/VOC/gal representing the controlled emission rate, by the actual amount of fuel consumed.

The permittee shall demonstrate compliance with the above value of pound OC/hour by emission testing in accordance with Methods 1 through 4 and 25 or 25A, 40 CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

b. Emission Limitation

OC/VOC emissions shall not exceed 8.3 tons/year.

Applicable Compliance Method



The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

c. Emission Limitation

NOx emissions shall not exceed 29.8 lbs/hr.

Applicable Compliance Method

The hourly NOx emission limitation was developed by adding the NOx contributions made by the combustion of gasoline in the dynamometer and the combustion of natural gas in the oxidizer. The contribution by the dynamometer, 29 lbs/hr, was obtained by multiplying the stack test emission factor, currently 0.44 lb NOx/gallon of unleaded gas consumed, by the theoretical maximum 65.9 gal/hr gasoline consumed in the dynamometer. The contribution by the oxidizer, 0.8 lb/hr, was obtained by dividing the AP-42 emission factor 100 lb/MMscf by the heat content of natural gas, 1050 MMBtu/MMscf, and multiplying the quotient, 0.0952 lb/MMBtu, by the maximum heating capacity of the oxidizer 8.0 MMBtu/hr. Adding 29 and 0.8 gives 29.8 lbs/hr. The emission factor is from a stack test performed on November 21, 2003.

The permittee shall demonstrate compliance with the above value of pound NOx/hour by emission testing in accordance with Methods 1 through 4 and 7, 40 CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

d. Emission Limitation

NOx emissions shall not exceed 130.5 tons per year.

Applicable Compliance Method

Actual emissions shall be determined by multiplying the test-derived emission factor from the most recent stack test, in lbs of NOx/gallon of unleaded gasoline consumed, by the actual annual amount of unleaded gasoline consumed, and multiplying the product by 1 ton/2000 pounds. The current emission factor is 0.44 lb of NOx/gallon of unleaded gasoline consumed determined from the November 21, 2003 stack test.

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.



[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

e. Emission Limitation

CO emissions shall not exceed 27.5 lbs/hr.

Applicable Compliance Method

The hourly CO emission limitation was developed by adding the CO contributions made by the combustion of gasoline in the dynamometer and the combustion of natural gas in the oxidizer. The contribution by the dynamometer, 26.9 lb/hr, was obtained by multiplying the AP- 42 emission factor 62.7lb/MMBtu by the heat content of gasoline 0.13 MMBtu/gal and multiplying the product, 8.151 lb/gal, by the theoretical maximum 65.9 gal/hr gasoline consumed in the dynamometer, and then multiplying by (1 - 0.95) to account for 95% control efficiency of the thermal oxidizer. The contribution by the oxidizer, 0.6lb/hr, was obtained by dividing the AP- 42 emission factor 84 lb/MMscf by the heat content of natural gas, 1050 MMBtu/MMscf, and multiplying the quotient, 0.08 lb/MMBtu, by the maximum heating capacity of the oxidizer 8.0 MMBtu/hr. Adding 26.9 and 0.6 gives 27.5 lbs/hr. Future emission calculations shall be done by multiplying a test-derived emission factor from the most recent stack test, in lbs CO/gal representing the controlled emission rate, by the actual amount of fuel consumed.

The permittee shall demonstrate compliance with the above value of pound CO/hour by emission testing in accordance Methods 1 through 4 and 10, 40CFR Part 60, Appendix A. See f)(2) below.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

f. Emission Limitation

CO emissions shall not exceed 120.5 tons/year.

Applicable Compliance Method

Actual emissions shall be determined by multiplying the test-derived emission factor from the most recent stack test, in lbs of CO/gallon of unleaded gasoline consumed, by the actual annual amount of unleaded gasoline consumed, and multiplying the product by 1 ton/2000 pounds.

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

g. Emission Limitation



PE/PM₁₀ emissions shall not exceed 0.92 lb/hr.

Applicable Compliance Method

The hourly PE/PM₁₀ emission limitation was developed by adding the PE/PM₁₀ contributions made by the combustion of gasoline in the dynamometer and the combustion of natural gas in the oxidizer. The contribution by the dynamometer, 0.86 lb/hr, was obtained by multiplying the AP- 42 emission factor 0.1 lb/MMBtu by the heat content of gasoline 0.13 MMBtu/gal and multiplying the product, 0.013 lb/gal, by the theoretical maximum 65.9 gal/hr gasoline consumed in the dynamometer. The contribution by the oxidizer, 0.06 lb/hr, was obtained by dividing the AP- 42 emission factor 7.6 lb/MMscf by the heat content of natural gas, 1050 MMBtu/MMscf, and multiplying the quotient, 0.007238 lb/MMBtu, by the maximum heating capacity of the oxidizer 8.0 MMBtu/hr. Adding 0.86 and 0.06 gives 0.92 lb/hr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 1 through 4 and 5, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

h. Emission Limitation

PE/PM₁₀ emissions shall not exceed 4.1 tons/year.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

i. Emission Limitation

Emissions of sulfur dioxide shall not exceed 0.73 lb/hr.

Applicable Compliance Method

The hourly SO₂ emission limitation was developed by adding the SO₂ contributions made by the gasoline combustion in the dynamometer and the natural gas combustion in the oxidizer. The contribution by the dynamometer, 0.72 lb/hr, was obtained by multiplying the AP- 42 emission factor 0.084 lb/MMBtu by the heat content of gasoline 0.13 MMBtu/gal and multiplying the product, 0.011 lb/gal, by the theoretical maximum 65.9 gal/hr gasoline consumed in the dynamometer. The contribution by the oxidizer, 0.005 lb/hr, was obtained by dividing the AP- 42 emission factor 0.6 lb/MMscf by the heat content of natural gas, 1050 MMBtu/MMscf, and multiplying the quotient,



0.0006lb/MMBtu, by the maximum heating capacity of the oxidizer 8.0 MMBtu/hr. Adding 0.72 and 0.005 gives 0.73 lb/hr.

If required, the permittee shall demonstrate compliance with this emission limitation through emission testing using Methods 1 through 4 and 6, of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

j. Emission Limitation

Emissions of sulfur dioxide shall not exceed 3.2 tons/year.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

Note: The above AP-42 emission factors were obtained from U.S. EPA's "Compilation of Air Pollutant Emission Factors", Fifth Edition, Chapter 1.4 (July 1998) for natural gas combustion associated with the oxidizer and Chapter 3.3 (October 1996) for combustion of gasoline in the engines.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI 13-04567]

k. Emission Limitation

limit the concentration of CO or THC to 20 ppmvd or less (corrected to 15 percent O₂ content); or

achieve a reduction in CO or THC of 96 percent or more between the inlet and outlet concentrations (corrected to 15 percent O₂ content) of the emission control device.

Applicable Compliance Method

The permittee shall comply with the applicable emission limitation requirements under 40 CFR, Part 63, Subpart P, including the following sections:

63.9301	Options for meeting the emission limits
63.9305	General requirements for compliance.
63.9310	Date for initial compliance demonstration.
63.9320	Procedures to follow.



63.9321	General requirements for performance test.
63.9322	Capture system efficiency.
63.9323	Control device destruction efficiency.
63.9324	Establish capture efficiency and control device operating limits during the performance test.
63.9330	Demonstrate initial compliance.
63.9340	Demonstrate continuous compliance with the emission limits.

[Authority for term: 40 CFR Part 63, Subpart P]]

- (2) The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 12 months after issuance of this permit.
 - b. The emission testing shall be conducted to demonstrate compliance with the hourly allowable mass emission limitations for NO_x, OC, and CO and to demonstrate compliance with the required thermal oxidizer control (destruction) efficiencies for CO at normal maximum production. The emission testing shall also be used to validate or reestablish the test-derived emission factors, representing the controlled emission rate in lbs pollutant/gallon of fuel consumed, to demonstrate annualized compliance.
 - c. The test(s) shall be conducted while the emissions unit is operating at or near its normal maximum capacity, unless otherwise specified or approved by the Cleveland DAQ.
 - d. The following test methods shall be employed to demonstrate compliance with the allowable mass emission rates and to determine actual control (destruction) efficiencies:
 - NO_x: Methods 1 through 4 and 7 of 40 CFR Part 60, Appendix A;
 - CO: Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A;
 - OC: Methods 1 through 4 and 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

The OC test method selected shall be based on a consideration of the diversity of organic species present and their total concentrations, and on a consideration of the potential presence of interfering gases.



The thermal oxidizer CO control (destruction) efficiency shall be determined in accordance with Methods 1 through 4 and 10, of 40 CFR Part 60, Appendix A and shall measure the percent reduction in mass emissions of CO between the inlet and outlet of the thermal oxidizer.

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Cleveland DAQ. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland DAQ's refusal to accept the results of the emission test(s).

Personnel from the Cleveland DAQ shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland DAQ within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland DAQ.

[Authority for term: OAC rule 3745-77-07(C)(1)]

- g) Miscellaneous Requirements
 - (1) None.



5. P254, CEP 2 Cylinder Block Op. 90, 100N, 100S, 110

Operations, Property and/or Equipment Description:

60* V-C cylinder 2.5/3.0L aluminum block machining operations Nos. 10, 20, 60, and 70.

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC 3745-31-05(A)(3) PTI 13-2516 issued 8/5/1992	Particulate emissions shall not exceed 0.0013 gr/DSCF, 0.22 lb/hr PE and 0.98 TPY See b)(2)a. below.
b.	OAC 3745-17-07(A)	The visible particulate emission limit specified by this rule is less stringent than the visible particulate emission limit established by OAC 3745-31-05.
c.	OAC 3745-17-11(B)	The particulate emission limit specified by this rule is less stringent than the particulate emission limit established by OAC 3745-31-05.

(2) Additional Terms and Conditions

a. Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(A)(3)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation

Particulate emissions serving this emissions unit shall not exceed 0.0013 gr/DSCF and 0.22 lb/hr PE



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the PE limitations based upon the results of the emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

Particulate emissions shall not exceed 0.98 TPY.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.



6. P255, CEP 2 Cylinder Block Op. 10GN, 10GS, 20G

Operations, Property and/or Equipment Description:

CEP 2 Cylinder Block Op. 10GN, 10GS, 20G

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC 3745-31-05(A)(3) PTI 13-2517 issued 8/5/1992	Particulate emissions shall not exceed 0.0013 gr/DSCF, 0.18 lb/hr PE and 0.77 TPY See b)(2)a. below.
b.	OAC 3745-17-07(A)	The visible particulate emission limit specified by this rule is less stringent than the visible particulate emission limit established by OAC 3745-31-05.
c.	OAC 3745-17-11(B)	The particulate emission limit specified by this rule is less stringent than the particulate emission limit established by OAC 3745-31-05.

(2) Additional Terms and Conditions

a. Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(A)(3)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation

Particulate emissions serving this emissions unit shall not exceed 0.0013 gr/DSCF and 0.18 lb/hr PE



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the PE limitations based upon the results of the emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

Particulate emissions shall not exceed 0.77 TPY.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



7. P256, CEP 2 Cylinder Block Operations 10, 70, 80

Operations, Property and/or Equipment Description:

CEP 2 Cylinder Block Operations 10, 70, 80

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC 3745-31-05(A)(3) PTI 13-2517 issued 8/5/1992	Particulate emissions shall not exceed 0.0013 gr/DSCF, 0.18 lb/hr PE and 0.77 TPY See b)(2)a. below.
b.	OAC 3745-17-07(A)	The visible particulate emission limit specified by this rule is less stringent than the visible particulate emission limit established by OAC 3745-31-05.
c.	OAC 3745-17-11(B)	The particulate emission limit specified by this rule is less stringent than the particulate emission limit established by OAC 3745-31-05.

(2) Additional Terms and Conditions

a. Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. the total duration of any visible emissions incident; and
- c. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1)]

e) Reporting Requirements

(1) The permittee shall submit semiannual written reports that identify:

- a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
- b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(A)(3)]

(2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3)]

f) Testing Requirements

(1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation

Particulate emissions serving this emissions unit shall not exceed 0.0013 gr/DSCF and 0.18 lb/hr PE



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the PE limitations based upon the results of the emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

Particulate emissions shall not exceed 0.77 TPY.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

- (1) None.



8. P257, CEP 2 Cylinder Block Operations 120N, 120S

Operations, Property and/or Equipment Description:

CEP 2 Cylinder Block Operations 120N, 120S

a) The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC 3745-31-05(A)(3) PTI 13-2519 issued 8/5/1992	Particulate emissions shall not exceed 0.0013 gr/DSCF, 0.22 lb/hr PE and 0.98 TPY See b)(2)a. below.
b.	OAC 3745-17-07(A)	The visible particulate emission limit specified by this rule is less stringent than the visible particulate emission limit established by OAC 3745-31-05.
c.	OAC 3745-17-11(B)	The particulate emission limit specified by this rule is less stringent than the particulate emission limit established by OAC 3745-31-05.

(2) Additional Terms and Conditions

a. Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

c) Operational Restrictions

(1) None.



d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emissions incident; and
 - c. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(3)]

e) Reporting Requirements

- (1) The permittee shall submit semiannual written reports that identify:
 - a. all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and
 - b. any corrective actions taken to eliminate the visible particulate emissions.

These reports shall be submitted to the Cleveland Division of Air Quality by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(A)(3)]

- (2) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.

[Authority for term: OAC rule 3745-77-07(A)(3)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emission Limitation

Particulate emissions serving this emissions unit shall not exceed 0.0013 gr/DSCF and 0.22 lb/hr PE



Applicable Compliance Method

If required, the permittee shall demonstrate compliance with the PE limitations based upon the results of the emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

[Authority for term: OAC rule 3745-77-07(C)(1)]

b. Emission Limitation

Particulate emissions shall not exceed 0.98 TPY.

Applicable Compliance Method

The annual emission limitation was established by multiplying the hourly emission rate by 8760 hours of operation per year and dividing by 2000 pounds per ton. Therefore, provided compliance is maintained with the pounds per hour emission limitation, compliance with the annual emission limitation shall also be demonstrated.

[Authority for term: OAC rule 3745-77-07(C)(1)]

c. Emission Limitation

Visible particulate emissions from the stack serving this emissions unit shall not exceed zero percent (0%) opacity as a six-minute average.

Applicable Compliance Method

Compliance with the stack visible particulate emissions limitation shall be determined through visible emissions observations performed in accordance with U.S. EPA Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1)]

g) Miscellaneous Requirements

(1) None.

a)