



09/24/2026

Tommy Flynn
Enbridge Gas Ohio - Chippewa Station
915 N. Eldridge Pkwy Suite 1100
Houston, TX 77079

Facility ID: 0285000366
Permit Number: P0139779
County: Wayne

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 Public Notices website, [Weekly Review and Public Notices](#). A copy of the public notice, the Statement of Basis, and the draft permit are enclosed. This permit can be accessed electronically on the Ohio EPA document search website here: [eDocument Search](#). 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:

Andrea Moore
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Rd.
Twinsburg, OH 44087

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published on the Ohio EPA Weekly Review and Public Notices website, [Weekly Review and Public Notices / Ohio Environmental Protection Agency](#). 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 Ohio EPA DAPC, Northeast District Office at (330)963-1200.

Sincerely,

Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: U.S. EPA Region 5 - Via E-Mail Notification
Ohio EPA-NEDO

Public Notice

The following matters are the subject of this public notice by the Ohio Environmental Protection Agency. The complete public notice, including any additional instructions for submitting comments, requesting information, a public hearing, or filing an appeal may be obtained at: [*Weekly Review and Public Notices | Ohio Environmental Protection Agency*](#) or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Phone: 614-644-3037 Email: [*HClerk@epa.ohio.gov*](mailto:HClerk@epa.ohio.gov)

Draft Title V Permit Renewal

Enbridge Gas Ohio - Chippewa Station
17045 Galehouse Road
Doylestown, OH 44230

ID#:	P0139779
Date of Action:	09/24/2026
Permit Desc:	Title V renewal for a natural gas distribution station.

The permit and complete instructions for requesting information or submitting comments may be obtained at: <https://ohioepa.commentinput.com> - Search by entering the permit #P0139779 in the "Search Projects" search box.

Statement of Basis* For Air Pollution Title V Permit

*As defined in OAC rule 3745-77-01(MM): "Statement of basis" or "SOB" means a statement that sets forth the legal and factual basis for the draft [Title V] permit conditions (including references to the applicable statutory or regulatory provisions)."

Completing this form is intended to satisfy those requirements.

Facility ID:	0285000366
Facility Name:	Enbridge Gas Ohio - Chippewa Station
Facility Description:	Natural gas distribution
Facility Address:	17045 Galehouse Road Doylestown, OH 44230
Permit #:	P0139779
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 ☐ GHG And/or subject to: ☒ Maximum Available Control Technology Standard(s) ☐ GACT standard(s) that requires a Title V permit ☐ Title IV ☐ Opt-In source	

A. Permit Background

1. Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(V)?

Yes	No	Comments:
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2. Discuss any **common control determinations** (this includes revisions to previous determinations), include justification, factors, and facts which led to the final decision.

Discussion: **None**

3. 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). This includes identifying conditions from previous permits that are not included in the new permit.

PTI No.: P0108195	Affected EUs: B005
Discussion of changes from the previous Title V: Deviation reporting was split into two separate requirements. Any exceedance of cumulative operating hours must now be reported quarterly, while each day that a fuel other than NG is burned must be reported within 30 days after the deviation occurs. Previously, both items were grouped under a quarterly reporting requirement, even though all deviations were required to be reported 30 days after the deviation occurs.	
PTI No.: 02-21803	Affected EUs: B009
Discussion of changes from the previous Title V: 40 CFR Part 63, Subpart ZZZZ requirements were updated.	
PTI No.: P0104773	PTI No.: B010
Discussion of changes from the previous Title V: 40 CFR Part 63, Subpart ZZZZ requirements were updated; emission standards in 40 CFR 60.4233(a) – (c) were removed because they do not apply.	
PTI No.: P0120468	Affected EUs: B014
Discussion of changes from the previous Title V: 40 CFR Part 63, Subpart ZZZZ requirements were updated. EU no longer qualifies for the area source exemption in 63.6590(c)(1).	
PTI No.: P0122000	Affected EUs: B015
Discussion of changes from the previous Title V: 40 CFR Part 63, Subpart ZZZZ requirements were updated.	
PTI No.: P0123846	Affected EUs: B017 and B018
Discussion of changes from the previous Title V: 40 CFR Part 60, Subpart JJJJ requirements were updated; 40 CFR Part 63, Subpart ZZZZ requirements were updated.	
4. 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 minor modification per OAC rules 3745-77-08(C)(1) or (2)	
PTI No.:	Affected EUs:
Minor Modification Description: N/A	
5. 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)	
PTI No.:	Affected EUs:
Significant Modification Description: N/A	
6. 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)	
PTI No.:	Affected EUs:
Reopening for Cause for Description: N/A	
7. Please identify the affected emissions 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.	
Affected EUs: N/A	

8. Please identify any federal **Consent Decree (CD)** that resulted in the addition of Title V T&Cs – include the CD Number, the CD Public Notice date (if known) and Ohio EPA Permit Number (if applicable, along with final permit issuance date) that incorporates the CD requirements.

CD No. **N/A** Public Notice PTI No. PTI Issuance Date:
 Date:

9. Please identify any **complex or unusual rule applicability determination** that is not readily apparent in the permit T&Cs and warrants additional explanation in the Statement of Basis. If the discussion is included in a PTI Permit Strategy Write Up cite the Permit Number and copy/paste or summarize the determination here.

PTI No. **N/A** Discussion:

10. Please identify any **streamlining determinations** within the permit. Include an identification of the subsumed limit(s) and an explanation of how the resulting limit is equivalent to or more stringent than those subsumed. If the discussion exists in a PTI Permit Strategy Write Up, cite the Permit Number and summarize the determination here. This would also be noted for specific emissions units identified in C.

PTI No.: P0108195	Discussion: The 1.29 lbs/hr PE limit in OAC rule 3745-31-05(A)(3) for EU B005 is less stringent than the 0.062 lb/MMBtu PE limit in OAC rule 3745-17-11(B)(5)(b). $\frac{0.062 \text{ lb}}{\text{MMBtu}} * \frac{5.15 \text{ MMBtu}}{\text{hr}} = 0.32 \frac{\text{lbs}}{\text{hr}}$
PTI No.: P0104773	Discussion: The 3.0 g NOx/HP-hr limit in OAC rule 3745-110-03(F)(2) for EU B010 is less stringent than the 2.0 g NOx/HP-hr limit in 40 CFR 60.4233(e). The 2.0 g NOx/HP-hr limit in 40 CFR 60.4233(e) for EU B010 is less stringent than the 3.66 lbs/hr NOx limit in ORC 3704.03(T). $\frac{2.0 \text{ g}}{\text{HP} - \text{hr}} * 2,370 \text{ HP} * \frac{\text{lb}}{453.59 \text{ g}} = 10.45 \frac{\text{lbs}}{\text{hr}}$
PTI No.: P0120468	Discussion: The 3.0 g NOx/HP-hr limit in OAC rule 3745-110-03(F)(2) for EU B014 is less stringent than the 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e). The 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e) for B014 is less stringent than the 11.42 TPY NOx limit in ORC 3704.03(T).

	$\frac{1.0 \text{ g}}{\text{HP} - \text{hr}} * 2,370 \text{ HP} * \frac{\text{lb}}{453.59 \text{ g}} * \frac{\text{ton}}{2,000 \text{ lbs}} * \frac{8,760 \text{ hrs}}{\text{yr}} = 22.89 \text{ TPY}$
PTI No.: P0122000	Discussion: The 3.0 g NOx/HP-hr limit in OAC rule 3745-110-03(F)(2) for EU B015 is less stringent than the 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e). The 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e) for B015 is less stringent than the 18.1 TPY NOx limit in ORC 3704.03(T). $\frac{1.0 \text{ g}}{\text{HP} - \text{hr}} * 3,750 \text{ HP} * \frac{\text{lb}}{453.59 \text{ g}} * \frac{\text{ton}}{2,000 \text{ lbs}} * \frac{8,760 \text{ hrs}}{\text{yr}} = 36.21 \text{ TPY}$
PTI No.: P0123846	Discussion: The 3.0 g NOx/HP-hr limit in OAC rule 3745-110-03(F)(2) for EUs B017 and B018 is less stringent than the 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e). The 1.0 g NOx/HP-hr limit in 40 CFR 60.4233(e) for B017 and B018 is less stringent than the 18.1 TPY NOx limit in ORC 3704.03(T). $\frac{1.0 \text{ g}}{\text{HP} - \text{hr}} * 3,750 \text{ HP} * \frac{\text{lb}}{453.59 \text{ g}} * \frac{\text{ton}}{2,000 \text{ lbs}} * \frac{8,760 \text{ hrs}}{\text{yr}} = 36.21 \text{ TPY}$
11. Please identify any current enforcement actions to address violations at the facility resulting in a compliance plan and schedule.	
Director's Final Findings and Orders; AGO Consent Decree; or U.S. EPA Consent Decree Date:	List the Order/Injunctive Relief number from the associated enforcement document and provide a description: N/A

B. Facility-Wide Terms and Conditions

Term & Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
B.2.	15-03(A)		Submit reports in accordance with reporting requirements specified in Section A.
B.3.		40 CFR Part 60, Subpart JJJJ	NSPS for stationary SI ICE: B010, B014, B015, B017, and B018.
B.4.		40 CFR Part 63, Subpart ZZZZ	NESHAP for stationary RICE: B009, B010, B014, B015, B017, and B018.
B.5.		40 CFR Part 63, Subpart DDDDD	NESHAP for industrial, commercial, and institutional boilers and process heaters: B006 - B008, and B011.
B.6.	77-03(A)		De minimis and exempt air contaminant sources are not subject to the emission standards established within this permit.
B.7.	77-07(A)(13)		Insignificant activities and emissions levels that are subject to one or more applicable requirements: B006, B007, B008, B011 and B019.

C. Emissions Unit Terms and Conditions

Key: EU = emissions unit ID ND = negative declaration (i.e., term that indicates that a particular rule(s) is (are) not applicable to a specific emissions unit) OR = operational restriction M = monitoring requirements ENF = did noncompliance issues drive the monitoring requirements?	R = record keeping requirements Rp = reporting requirements ET = emission testing requirements (not including compliance method terms) Misc = miscellaneous requirements
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Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
Section C.1: Auxiliary Generator: B005											
B005	21.61 lbs/hr NO _x ; 39.49 TPY NO _x	OAC 3745-31-05(D)	N	Y	N	Y	Y	Y	N	N	OR – maximum annual operating ≤ 3,655 hrs based upon a rolling, 365-day summation of operating hours; burn only NG. R – record of type and quantity of fuel burned other than NG; daily records of each start-up and shutdown, operating hours for each day, and rolling, 365-day summation of operating hours. Rp – quarterly deviation report any day when the rolling, 365-day cumulative hours of operation exceeded 3,655 hours; deviation report 30 days after fuel other than NG was burned. ET – if required, 40 CFR Part 60, Appendix A, Method 7 or 7E for NO _x .
B005	1.29 lbs/hr PE	OAC 3745-31-05(A)(3)	N	Y	N	Y	Y	N	N	Y	OR – burn only NG. R – maintain record of type and quantity of fuel burned other than NG; maintain daily records of each start-up and shutdown, operating hours for each day, and rolling, 365-day summation of operating hours. Rp – deviation report 30 days after fuel other than NG was burned. Misc - The 1.29 lbs/hr PE limit is less stringent than the 0.062 lb/MMBtu PE limit in OAC rule 3745-17-11(B)(5)(b).
B005	0.5 lbs/MMBtu SO ₂	OAC 3745-18-06(G)	Y	N	N	N	N	N	N	N	ND – exempt from requirements of OAC 3745-18-06 during any calendar day in which NG is the only fuel burned per OAC 3745-18-06(A).
B005	0.062 lb/MMBtu PE	OAC 3745-17-11(B)(5)(b)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Methods 1 – 5 and OAC rule 3745-17-03(B)(10) for PE.
B005	20% opacity as a 6-min average	OAC 3745-17-07(A)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1) for PE.
B005	N/A	40 CFR Part 63, Subpart ZZZZ	Y	N	N	N	N	N	N	N	ND – existing emergency SI 4SLB stationary RICE with a site rating > 500 HP located at a major source of HAP emissions is not required to meet the requirements of 40 CFR Part 63, Subparts A and ZZZZ, including initial notification requirements.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
Section C.2: Engine 5: B009											
B009	3.66 lbs/hr NO _x ; 16.03 TPY NO _x	ORC 3704.03(T)	N	Y	N	Y	Y	N	N	N	OR – burn only NG. R – record of type and quantity of fuel burned other than NG. Rp - deviation report 30 days after fuel other than NG was burned.
B009	N/A	OAC 3745-31-05(A)(3)(a)(ii)	Y	N	N	N	N	N	N	N	ND – BAT requirements under OAC 3745-31-05(A)(3) do not apply to CO and VOC emissions since the PTE is < 10 TPY taking into account restrictions in 40 CFR Part 63, Subpart ZZZZ; BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to PE since uncontrolled PTE is < 10 TPY.
B009	20% opacity as a 6-min average	OAC 3745-17-07(A)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1) for PE.
B009	0.062 lb/MMBtu PE	OAC 3745-17-11(B)(5)(b)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Methods 1 – 5 and OAC rule 3745-17-03(B)(10) for PE.
B009	0.5 lbs/MMBtu SO ₂	OAC 3745-18-06(G)	Y	N	N	N	N	N	N	N	ND – exempt from requirements of OAC 3745-18-06 during any calendar day in which NG is the only fuel burned per OAC 3745-18-06(A).
B009	N/A	40 CFR Part 60, Subpart JJJJ	Y	N	N	N	N	N	N	N	ND – exempt from requirements of 40 CFR Part 60, Subpart JJJJ because SI ICE was manufactured before 07/01/2007.
B009	Reduce CO emissions by 93% or more at 100% load (± 10%); or 14 ppmvd CH ₂ O at 15% O ₂	40 CFR Part 63, Subpart ZZZZ	N	Y	Y	Y	Y	Y	N	Y	OR – maintain pressure drop across catalyst; maintain catalyst inlet temperature; maintain compliance at all times; operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions; prepare a site-specific monitoring plan; maintain CPMS to continuously monitor catalyst inlet temperature; minimize engine's time spent at idle during startup and minimize startup to < 30 min; reduce CO or CH ₂ O emissions using an oxidation catalyst and CPMS; if the catalyst is changed, reestablish the values of the operating parameters. M – CPMS must collect data at least once every 15 min; collect catalyst inlet data temperature; reduce catalyst inlet temperature data to 4-hr rolling avg; CPMS measuring temperature range requirements; conduct CPMS performance evaluation at least annually according to site-specific monitoring plan; monitor

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
											continuously at all times RICE is operating; maintain catalyst inlet temperature 4-hr rolling avg within operating limitation; measure pressure drop across catalyst once per month. R – maintain records of each notification and report that is submitted; maintain record of occurrence and duration of each malfunction; maintain record of performance tests and performance evaluations; maintain record of all required maintenance performed on the air pollution control and monitoring equipment; maintain records of actions taken during periods of malfunction to minimize emissions; maintain CPMS records; maintain records showing continuous compliance with each emission or operating limit; maintain records in a form suitable and readily available for expeditious inspection and review. Rp – results of each performance test within 60 days after completion date; notification of intent to conduct performance test within 60 calendar days before test; each instance emission limit or operating limit was not met; notification of compliance status; semiannual compliance reports. ET – annual performance test; if results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde limit, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis; when the catalyst is changed, reestablish the values of the operating parameters by conducting a performance test. Misc – any amendments to 40 CFR Part 63, Subpart ZZZZ shall supersede compliance limitations and/or compliance options from this subpart, if modified from those identified in the permit.
Section C.3: Engine 6: B010											
B010	3.66 lbs/hr NO _x ; 16.0 TPY NO _x	ORC 3704.03(T)	N	Y	N	Y	Y	N	N	N	OR – burn only NG. R – record of type and quantity of fuel burned other than NG. Rp - deviation report 30 days after fuel other than NG was burned.
B010	N/A	OAC 3745-31-05(A)(3)(a)(ii)	Y	N	N	N	N	N	N	N	ND – BAT requirements under OAC 3745-31-05(A)(3) do not apply to CO and VOC emissions since the PTE is < 10 TPY taking into account restrictions in 40 CFR Part 63, Subpart ZZZZ; BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to PE since uncontrolled PTE is < 10 TPY.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
B010	20% opacity as a 6-min average	OAC 3745-17-07(A)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1) for PE.
B010	0.062 lb/MMBtu PE	OAC 3745-17-11(B)(5)(b)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Methods 1 – 5 and OAC rule 3745-17-03(B)(10) for PE.
B010	0.5 lbs/MMBtu SO ₂	OAC 3745-18-06(G)	Y	N	N	N	N	N	N	N	ND – exempt from requirements of OAC 3745-18-06 during any calendar day in which NG is the only fuel burned per OAC 3745-18-06(A).
B010	3.0 g/HP-hr NO _x	OAC 3745-110-03(F)(2)	N	N	N	N	N	N	N	Y	Misc – emission limit specified by this rule is less stringent than the NO _x limit required per 40 CFR Part 60, Subpart JJJJ.
B010	2.0 g/HP-hr NO _x or 160 ppmvd at 15% O ₂ ; 4.0 g/HP-hr CO or 540 ppmvd CO at 15% O ₂ ; 1.0 g/HP-hr VOC or 86 ppmvd VOC at 15% O ₂	40 CFR Part 60, Subpart JJJJ	N	Y	Y	Y	Y	Y	N	Y	OR – maintain SI ICE to achieve emission standards over the entire life of the engine; operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions; may operate using propane for a maximum of 100 hrs/yr; use air-to-fuel ratio controllers with the operation of three-way catalyst/non-selective catalytic reduction; maintain AFR controller to ensure proper operation of the engine and control device to minimize emissions at all times. M – keep a maintenance plan. R – maintain records of conducted maintenance; records of submitted notifications; documentation that the engine meets the emission standards. Rp – initial notifications; results of each performance test within 60 days after completion date. ET – conduct performance tests every 8,760 hrs of operation or 3 yrs, whichever comes first. Misc – any amendments to 40 CFR Part 60, Subpart JJJJ shall supersede compliance limitations and/or compliance options from this subpart, if modified from those identified in the permit; the 2.0 g NO_x/HP-hr limit is less stringent than the 3.66 lbs/hr NO_x limit in ORC 3704.03(T).
B010	Reduce CO emissions by 93% or more at 100% load (±)	40 CFR Part 63, Subpart ZZZZ	N	Y	Y	Y	Y	Y	N	Y	OR – be in compliance with emission and operating limitations upon startup; maintain pressure drop across catalyst; maintain catalyst inlet temperature; maintain compliance at all times; operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions;

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
	10%); or 14 ppmvd CH ₂ O at 15% O ₂										prepare a site-specific monitoring plan; maintain CPMS to continuously monitor catalyst inlet temperature; minimize engine's time spent at idle during startup and minimize startup to < 30 min; reduce CO or CH₂O emissions using an oxidation catalyst and CPMS; if the catalyst is changed, reestablish the values of the operating parameters. M – CPMS must collect data at least once every 15 min; collect catalyst inlet data temperature; reduce catalyst inlet temperature data to 4-hr rolling avg; CPMS measuring temperature range requirements; conduct CPMS performance evaluation at least annually according to site-specific monitoring plan; monitor continuously at all times RICE is operating; maintain catalyst inlet temperature 4-hr rolling avg within operating limitation; measure pressure drop across catalyst once per month. R – maintain records of each notification and report that is submitted; maintain record of occurrence and duration of each malfunction; maintain record of performance tests and performance evaluations; maintain record of all required maintenance performed on the air pollution control and monitoring equipment; maintain records of actions taken during periods of malfunction to minimize emissions; maintain CPMS records; maintain records showing continuous compliance with each emission or operating limit; maintain records in a form suitable and readily available for expeditious inspection and review. Rp – results of each performance test within 60 days after completion date; notification of intent to conduct performance test within 60 calendar days before test; each instance emission limit or operating limit was not met; notification of compliance status; semiannual compliance reports. ET – annual performance test; if results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde limit, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis; reestablish the values of the operating parameters when the catalyst is changed by conducting a performance test. Misc – any amendments to 40 CFR Part 63, Subpart ZZZZ shall supersede compliance limitations and/or compliance options from this subpart, if modified from those identified in the permit.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
Section C.3: Fugitive VOCs: P019											
P019	46.56 TPY VOC	ORC 3704.03(T)	N	Y	Y	Y	Y	N	N	N	OR – operate and maintain in a manner consistent with good engineering practices to minimize and/or eliminate the release of VOC and/or HAP. M – weekly inspection for indications of releases from the station and equipment. R – record of positive indication of a release or leak; record of all maintenance and/or modifications that are performed in order to minimize and/or eliminate the release of VOC and/or HAPs. Rp – quarterly deviation report.
Section C.2: Emissions Unit Group – ICE Manufactured After 2010: B014, B015, B017, and B018											
B014	11.42TPY NOx	ORC 3704.03(T)	N	N	N	N	N	N	N	N	
B015, B017, B018	18.1 TPY NOx	ORC 3704.03(T)	N	N	N	N	N	N	N	N	
B014, B015, B017, B018	N/A	OAC 3745-31-05(A)(3)(a)(ii)	Y	N	N	N	N	N	N	N	ND – BAT requirements under OAC 3745-31-05(A)(3) do not apply to CO and VOC emissions since the PTE is < 10 TPY taking into account restrictions in 40 CFR Part 63, Subpart ZZZZ; BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to PE since uncontrolled PTE is < 10 TPY.
B014, B015, B017, B018	20% opacity as a 6-min average	OAC 3745-17-07(A)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1) for PE.
B014, B015, B017, B018	0.062 lb/MMBtu PE	OAC 3745-17-11(B)(5)(b)	N	N	N	N	N	Y	N	N	ET – if required, 40 CFR Part 60, Appendix A, Methods 1 – 5 and OAC rule 3745-17-03(B)(10) for PE.
B014, B015,	0.5 lbs/MMBtu SO2	OAC 3745-18-06(G)	Y	N	N	N	N	N	N	N	ND – exempt from requirements of OAC 3745-18-06 during any calendar day in which NG is the only fuel burned per OAC 3745-18-06(A).

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
B017, B018											
B014, B015, B017, B018	3.0 g/HP-hr NO _x	OAC 3745-110-03(F)(2)	N	N	N	N	N	N	N	Y	Misc - emission limit specified by this rule is less stringent than the NO _x limit required per 40 CFR Part 60, Subpart JJJJ.
B014, B015, B017, B018	1.0 g/HP-hr NO _x or 82 ppmvd at 15% O ₂ ; 2.0 g/HP-hr CO or 270 ppmvd CO at 15% O ₂ ; 0.7 g/HP-hr VOC or 60 ppmvd VOC at 15% O ₂	40 CFR Part 60, Subpart JJJJ	N	Y	Y	Y	Y	Y	N	Y	OR – maintain SI ICE to achieve emission standards over the entire life of the engine; operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions; may operate using propane for a maximum of 100 hrs/yr; use air-to-fuel ratio controllers with the operation of three-way catalyst/non-selective catalytic reduction; maintain AFR controller to ensure proper operation of the engine and control device to minimize emissions at all times; if the certified stationary SI ICE and control device are not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine. M – keep a maintenance plan R – maintain records of conducted maintenance; records of submitted notifications; documentation that the engine meets the emission standards; if operating as a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards. Rp – initial notifications; results of each performance test within 60 days after completion date. ET – conduct performance tests every 8,760 hrs of operation or 3 yrs, whichever comes first. No performance testing is required for certified engines and control device that are operated and maintained according to the manufacturer's emission-related written instructions. Misc – any amendments to 40 CFR Part 60, Subpart JJJJ shall supersede compliance limitations and/or compliance options from this subpart, if modified from those identified in the permit; the 1.0 g NO_x/HP-hr limit for B014 is less stringent than the 11.42 TPY NO_x limit in ORC 3704.03(T); the 1.0 g NO_x/HP-hr

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
											limit for B015, B017, and B018 is less stringent than the 18.1 TPY NOx limit in ORC 3704.03(T).
B014, B015, B017, B018	Reduce CO emissions by 93% or more at 100% load ($\pm$ 10%); or 14 ppmvd CH ₂ O at 15% O ₂	40 CFR Part 63, Subpart ZZZZ	N	Y	Y	Y	Y	Y	N	Y	OR – be in compliance with emission and operating limitations upon startup; maintain compliance at all times; operate and maintain in a manner consistent with safety and good air pollution control practices for minimizing emissions; prepare a site-specific monitoring plan; maintain CPMS to continuously monitor catalyst inlet temperature; minimize engine’s time spent at idle during startup and minimize startup to < 30 min; maintain pressure drop across catalyst; maintain catalyst inlet temperature; reduce CO or CH₂O emissions using an oxidation catalyst and CPMS; if the catalyst is changed, reestablish the values of the operating parameters. M – CPMS must collect data at least once every 15 min; collect catalyst inlet data temperature; reduce catalyst inlet temperature data to 4-hr rolling avg; CPMS measuring temperature range requirements; conduct CPMS performance evaluation at least annually according to site-specific monitoring plan; monitor continuously at all times RICE is operating; maintain catalyst inlet temperature 4-hr rolling avg within operating limitation; measure pressure drop across catalyst once per month. R – maintain records of each notification and report that is submitted; maintain record of occurrence and duration of each malfunction; maintain record of performance tests and performance evaluations; maintain record of all required maintenance performed on the air pollution control and monitoring equipment; maintain records of actions taken during periods of malfunction to minimize emissions; maintain CPMS records; maintain records showing continuous compliance with each emission or operating limit; maintain record of each idle and/or startup time that exceeded 30 min; maintain records in a form suitable and readily available for expeditious inspection and review. Rp – results of each performance test within 60 days after completion date; notification of intent to conduct performance test within 60 calendar days before test; each instance emission limit or operating limit was not met; notification of compliance status; semiannual compliance reports.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	EN F	Misc	Comments
											ET – annual performance test; if results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde limit, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis; reestablish the values of the operating parameters when the catalyst is changed by conducting a performance test. Misc – any amendments to 40 CFR Part 63, Subpart ZZZZ shall supersede compliance limitations and/or compliance options from this subpart, if modified from those identified in the permit.



**Environmental
Protection
Agency**

DRAFT

**Division of Air Pollution Control
Title V Permit
for
Enbridge Gas Ohio - Chippewa Station**

Facility ID:	0285000366
Permit Number:	P0139779
Permit Type:	Renewal
Issued:	09/24/2026
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

**Division of Air Pollution Control
Title V Permit
for
Enbridge Gas Ohio - Chippewa Station
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Authorization

Facility ID:	0285000366
Facility Description:	Natural gas distribution
Application Number(s):	A0081155
Permit Number:	P0139779
Permit Description:	Title V renewal for a natural gas distribution station.
Permit Type:	Renewal
Issue Date:	
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0129864

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

Enbridge Gas Ohio - Chippewa Station
17045 Galehouse Road
Doylestown, OH 44230

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

Ohio EPA DAPC, Northeast District Office
2110 East Aurora Rd.
Twinsburg, OH 44087
(330)963-1200

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 Ohio EPA DAPC, Northeast District Office. 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 and no later than 6 months prior to the expiration date.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

John Logue
Director

List of Commonly Used Abbreviations

AP-42 = U.S. EPA's Compilation of Air Pollution Emissions Factors	HVLP = high volume, low pressure	PER = Permit Evaluation Report
ASTM = American Society for Testing and Materials	LAER = lowest achievable emission rate	PM = particulate matter
BACT = Best Available Control Technology	lb(s)/hr = pound(s) per hour	PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns
BAT = Best Available Technology	LDAR = leak detection and repair	PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns
CAA = Clean Air Act	LPG = liquefied petroleum gas/propane	ppb = parts per billion
CAM = compliance assurance monitoring	MACT = maximum achievable control technology	ppm = parts per million
CEMS = continuous emissions monitoring system	MAGLC = maximum acceptable ground level concentration	PSD = Prevention of Significant Deterioration
CFC = chlorofluorocarbon	mg/m ³ = milligrams per cubic meter	psi = pounds per square inch
CFR = Code of Federal Regulations	MM = million	psia = pounds per square inch absolute
CH ₄ = methane	MMBtu = million British Thermal Units	PTE = potential-to-emit
CI = compression ignition	MSDS = material safety data sheet	PTI = Permit-to-Install
CO = carbon monoxide	MSW = municipal solid waste	PTIO = Permit-to-Install and Operate
CO ₂ = carbon dioxide	NAAQS = National Ambient Air Quality Standard	PTO = Permit-to-Operate
COM = continuous opacity monitor	NESHAP = National Emission Standard for Hazardous Air Pollutants	PWR = process weight rate
DAPC = Division of Air Pollution Control	NG = natural gas	RACM = reasonably available control measures
DO/LAA = District Office/Local Air Agency	ng/m ³ = nanograms per cubic meter	RACT = reasonably available control technology
dscf = dry standard cubic foot	NH ₃ = ammonia	RATA = relative accuracy test audit
EAC = emissions activity category	NMHC = non-methane hydrocarbons	RTO = regenerative thermal oxidizer
eDocs = electronic documents database	NMOC = non-methane organic compound	SB265 = Senate Bill 265
ERAC = Environmental Review Appeals Commission	NO = nitrogen oxide	scfm = standard cubic feet per minute
ESP = electrostatic precipitator	NO ₂ = nitrogen dioxide	SI = spark ignition
EU = emissions unit	NO _x = nitrogen oxides	SIP = State Implementation Plan
FEPTIO = Federally Enforceable Permit-to-Install and Operate	NSPS = New Source Performance Standard	SO ₂ = sulfur dioxide
FER = Fee Emissions Report	NSR = New Source Review	SSMP = startup, shutdown, and malfunction plan
FR = Federal Register	NTV = Non-Title V	TDS = total dissolved solids
GACT = generally achievable control technology	O&M = operation and maintenance	TLV = threshold limit value
GHG = greenhouse gases	OAC = Ohio Administrative Code	TO = thermal oxidizer
gr/dscf = grains per dry standard cubic foot	OC = organic compound	TPH = ton(s) per hour
H ₂ S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H ₂ SO ₄ = sulfuric acid	ORC = Ohio Revised Code	TSP = total suspended particulates
HAP = hazardous air pollutant	Pb = lead	VE = visible particulate emissions
HCl = hydrogen chloride	PBR = Permit-By-Rule	VMT = vehicle miles traveled
HF = hydrogen fluoride	PCB = polychlorinated biphenyl	VOC = volatile organic compound
Hg = mercury	PE = particulate emissions	WPP = work practice plan
hp = horsepower	PEMS = predictive emissions monitoring system	µg/m ³ = micrograms per cubic meter



**Environmental
Protection
Agency**

Draft Title V Permit

Enbridge Gas Ohio - Chippewa Station

Permit Number: P0139779

Facility ID: 0285000366

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 for State-Only Requirements
 - (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
 - (5) Standard Term and Condition A. 30., Submitting Documents Required by this Permit

[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 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 submitted scheduled maintenance requests, 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 submitted promptly to the Ohio EPA DAPC, Northeast District Office. Except as provided below, the written reports shall be submitted 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.20, 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 to the Ohio EPA DAPC, Northeast District Office 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." Signature by the Responsible Official may be represented by entry of the personal identification number (PIN) by the Responsible Official as part of the electronic submission process or by the scanned attestation document signed by the Responsible Official that is attached to the electronically submitted written report.

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

- (5) Consistent with A.2.c.1. above, reports of any required monitoring and/or record keeping information required to be submitted to Ohio EPA shall be submitted to Ohio EPA DAPC, Northeast District Office unless otherwise specified.

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

3. Reporting of Any Exceedance of a Federally Enforceable Emission Limitation or Control Requirement Resulting from 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) 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 except as provided pursuant to A.16 below.
- c) This permit may be modified, reopened, revoked, or revoked and reissued, for cause, in accordance with 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 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 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, OAC rule 3745-77-07(A)(3)(b)(ii), OAC rule 3745-77-07(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 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 Ohio EPA DAPC, Northeast District Office 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 Ohio EPA DAPC, Northeast District Office) 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 on or before April 30th of each year during the permit term.
 - (2) Compliance certifications shall include the following:
 - a. Identification of each term or condition that is the basis of the certification. The identification may include a statement by the Responsible Official that every term and condition that is federally enforceable has been reviewed, and such terms and conditions with which there has been continuous compliance throughout the year are not separately identified.
 - b. The permittee's current compliance status.
 - c. Whether compliance was continuous or intermittent consistent with A.13.d)(2)a. above.
 - d. The method(s) used for determining the compliance status of the source currently and over the required reporting period consistent with A.13.d)(2)a. above.

- 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 [defined as "Title I modification" in OAC rule 3745-77-01], 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 Ohio EPA DAPC, Northeast District Office 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 Ohio EPA DAPC, Northeast District Office 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 activities and emissions levels" as defined in OAC rule 3745-77-01. 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 Federal Register 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 is subject to 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), 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.

Unless otherwise exempted, no emissions unit identified in this permit that has been 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 operating 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 Ohio EPA DAPC, Northeast District Office.
- 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 Ohio EPA DAPC, Northeast District Office. 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 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 for State-Only Requirements

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 Ohio EPA DAPC, Northeast District Office 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 Ohio EPA DAPC, Northeast District Office 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 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 potential to emit; or

- c) Where the company's Responsible Official has certified that an emissions unit has been permanently shut down.

30. Submitting Documents Required by this Permit

All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications, or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the Ohio EPA DAPC, Northeast District Office, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the required application, notification or report is considered to be "submitted" on the date the submission is successful using a valid electronic signature. Signature by the Responsible Official may be represented as provided through procedures established in Air Services.

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 reports required by this permit shall be submitted in accordance with the reporting requirements specified in Section A, Standard Terms and Conditions.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-15-03(A)]

3. The following EUs contained in this permit are subject to 40 CFR Part 60, Subpart JJJJ – NSPS for Stationary SI ICE: B010, B014, B015, B017, and B018. The complete NSPS requirements, including the Subpart A General Provisions, may be accessed via the internet from the e-CFR website <http://ecfr.gov> or by contacting the Ohio EPA Northeast DO.

The permittee must comply with all applicable requirements of 40 CFR Part 60, Subpart JJJJ. The permittee shall also comply with all applicable requirements of 40 CFR Part 60, Subpart A (General Provisions) as identified in Table 3 of 40 CFR Part 60, Subpart JJJJ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 60, Subpart JJJJ and Subpart A.

4. The following EUs contained in this permit are subject to 40 CFR Part 63, Subpart ZZZZ, NESHAP for Stationary RICE: B009, B010, B014, B015, B017, and B018. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the e-CFR website at <http://ecfr.gov> or by contacting the Ohio EPA Northeast DO.

The permittee must comply with all applicable requirements of 40 CFR Part 63, Subpart ZZZZ. The permittee shall also comply with all applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 8 of 40 CFR Part 63, Subpart ZZZZ. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart ZZZZ and Subpart A.

5. The following EUs contained in this permit are subject to 40 CFR Part 63, Subpart DDDDD, NESHAP for Industrial, Commercial, and Institutional Boilers and Process Heaters: B006 – B008 and B011. The complete NESHAP requirements, including the Subpart A General Provisions, may be accessed via the internet from the e-CFR website at <http://ecfr.gov> or by contacting the Ohio EPA Northeast DO.

The permittee must comply with all applicable requirements of 40 CFR Part 63, Subpart DDDDD. The permittee shall also comply with all applicable requirements of 40 CFR Part 63, Subpart A (General Provisions) as identified in Table 10 of 40 CFR Part 63, Subpart DDDDD. Compliance with all applicable requirements shall be achieved by the dates set forth in 40 CFR Part 63, Subpart DDDDD and Subpart A.

6. Air contaminant sources that qualify as de minimis under OAC rule 3745-15-05 or are exempt under OAC rule 3745-31-03(A)(1) or (4) are not subject to emission standards established within this permit. Although this permit does not apply to de minimis or exempt sources, emissions from de minimis or exempt sources must be included in the total PTE calculations for this permit.

7. The insignificant EUs listed below are subject to requirements contained in a PTI, subject to a requirement in the SIP approved versions of OAC Chapters 3745-17, 3745-18, 3745-21, and 3745-31, subject to a federal rule requirement, or otherwise subject to an Applicable Requirement, as defined in OAC rule 3745-77-01:

EU ID	Operations, Property, and/or Equipment Description	Applicable Requirement(s)
B006	10.0 MMBtu/hr NG-fired boiler	PTI P0107507 issued 02/09/2011
B007	10.0 MMBtu/hr NG-fired boiler	PTI P0107507 issued 02/09/2011
B008	10.0 MMBtu/hr NG-fired boiler	PTI P0107507 issued 02/09/2011
B011	12 MMBtu/hr NG-fired boiler; 50/50 water/ethylene glycol used to heat gas stream	PTI P0104906 issued 05/29/2009
B019	755-HP emergency generator	PBR16657 issued 12/22/2017



**Environmental
Protection
Agency**

Draft Title V Permit

Enbridge Gas Ohio - Chippewa Station

Permit Number: P0139779

Facility ID: 0285000366

Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions

1. B005, Auxiliary Generator

Operations, Property and/or Equipment Description:

690 HP 4SLB RICE emergency generator: CAT 3412

- 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(D) (Synthetic Minor restriction to avoid PSD requirements) [PTI P0108195]	NOx emissions shall not exceed 21.61 lbs/hr and 39.49 TPY.
b.	OAC rule 3745-31-05(A)(3) [PTI P0108195]	PE shall not exceed 1.29 lbs/hr.
c.	OAC rule 3745-18-06(G)	Pursuant to OAC rule 3745-18-06(A), this stationary ICE is exempt from the SO ₂ emission limitation specified by this rule during any calendar day in which NG is the only fuel burned.
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/MMBtu of actual heat input from RICE greater than 600 HP.
e.	OAC rule 3745-17-07(A)	VE from any stack serving this EU shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
f.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 – 63.6675)	See b)(2)a.

- (2) Additional Terms and Conditions

- a. In accordance with 40 CFR 63.6590(b)(3)(ii), this EU is an existing emergency SI 4SLB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions and is not required to meet the requirements of 40 CFR Part 63, Subparts A and ZZZZ, including initial notifications requirements.

- c) Operational Restrictions

- (1) The permittee shall burn only NG in this EU.

[Authority for term: OAC rules 3745-77-07(A)(1); 3745-31-05(A)(3); 3745-31-05(D); and PTI P0108195]

- (2) The maximum annual operating hours for this EU shall not exceed 3,655 hours, based upon a rolling, 365-day summation of the operating hours.
 [Authority for term: OAC rules 3745-77-07(A)(1); 3745-31-05(D); and PTI P0108195]
- d) **Monitoring and/or Recordkeeping Requirements**
- (1) For each day during which the permittee burns a fuel other than NG, the permittee shall maintain a record of the type and quantity of fuel burned in this EU.
 [Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); 3745-31-05(D); and PTI P0108195]
- (2) The permittee shall maintain daily records of the following information:
- the date and time of each start-up and shut down of this EU;
 - the operating hours for each day; and
 - the rolling, 365-day summation of the operating hours.
- [Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); 3745-31-05(D); and PTI P0108195]
- e) **Reporting Requirements**
- (1) The permittee shall submit quarterly deviation (excursion) reports that identify any day when the rolling, 365-day cumulative hours of operation exceeded 3,655 hours.
 The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions in Section A of this permit.
 [Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(D); and PTI P0108195]
- (2) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than NG was burned in this EU.
 Each report shall be submitted within 30 days after the deviation occurs.
 [Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); 3745-31-05(D); and PTI P0108195]
- f) **Testing Requirements**
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

NO_x emissions shall not exceed 21.61 lbs/hr and 39.49 TPY.

Applicable Compliance Method:

The hourly NO_x emission limitation was established using the following equation:

$$\frac{4.08 \text{ lbs}}{\text{MMBtu}} * \frac{5.15 \text{ MMBtu}}{\text{hr}} = 21.61 \frac{\text{lbs}}{\text{hr}} \text{NO}_x$$

where:



$$\frac{4.08 \text{ lbs}}{\text{MMBtu}} = \text{NOx emission factor from AP-42, Fifth Edition, Section 3.2, Table 3.2-2 (10/24), lb/MMBtu; and}$$
$$\frac{5.15 \text{ MMBtu}}{\text{hr}} = \text{Rated engine capacity, MMBtu/hr.}$$

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 7 or 7E.

The TPY emission limitation was developed by multiplying the short-term allowable NOx emission limitation (21.61 lbs/hr) by the maximum allowable annual hours of operation (3,655 hrs), then dividing by 2,000 lbs/ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(D); and PTI P0108195]

b. Emission Limitation:

PE shall not exceed 1.29 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the PE factor (0.00998 lb/MMBtu) by the rated capacity of the engine (5.15 MMBtu/hr). The emission factor was obtained from AP-42, Fifth Edition, Section 3.2, Table 3.2-2 (10/24) and is the sum of filterable and condensable PE.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0108195]

c. Emission Limitation:

PE shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 – 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-11(B)(5)(b); and PTI P0108195]

d. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon VE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-07(A); and PTI P0108195]

g) Miscellaneous Requirements

(1) None.

2. B009, Engine 5

Operations, Property and/or Equipment Description:

2,370 HP NG-fired 4SLB SI ICE compressor with catalytic oxidation: CAT G3608-LE-TA

- 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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3) [PTI 02-21803]	NOx emissions shall not exceed 3.66 lbs/hr and 16.03 TPY.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO and VOC emissions from this air contaminant source since the PTE for each pollutant is less than 10 TPY taking into account the restrictions in 40 CFR Part 63, Subpart ZZZZ. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled PTE is less than 10 TPY.
c.	OAC rule 3745-17-07(A)	VE from any stack serving this EU shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/MMBtu of actual heat input from RICE greater than 600 HP.
e.	OAC rule 3745-18-06(G)	Pursuant to OAC rule 3745-18-06(A), this stationary ICE is exempt from the SO ₂ emission limitation specified by this rule during any calendar day in which NG is the only fuel burned.
f.	40 CFR Part 60, Subpart JJJJ (40 CFR 60.4230 – 60.4248)	Exempt. Manufactured before July 1, 2007. See 40 CFR 60.4230(a)(4)(i)
g.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 – 63.6675)	The permittee shall comply with one of the following emission limitations, except during periods of startup: reduce CO emissions by 93% or more at 100% load (± 10%); or



		limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O ₂ . See b)(2)a.
h.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 63.16)	Table 8 to Subpart ZZZZ of 40 CFR Part 63 – Applicability of General Provisions to Subpart ZZZZ shows which parts of the General Provisions apply.

(2) Additional Terms and Conditions

- a. In accordance with 40 CFR 63.6590(a)(2)(i), this EU is a new stationary RICE located at a major source of HAP emissions that commenced construction after December 19, 2002, and is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

- (1) The permittee shall burn only NG in this EU.

[Authority for term: OAC rules 3745-77-07(A)(1); 3745-31-05(A)(3); and PTI 02-21803]

- (2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6630(b); Table 2b #1	63.6600(b);	a. Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100% load ($\pm$ 10%) from the pressure drop across the catalyst that was measured during the initial performance test; and b. Maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
63.6605(a)		Maintain compliance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63, Subpart ZZZZ that apply at all times.
63.6605(b)		At all times, operate and maintain this EU, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
63.6625(b)(1); 63.8(d)	Table 5;	Prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and quality assurance and quality control elements outlined in 63.6625(b)(1)(i) – (v) and in 63.8(d).
63.6625(b)(2); Table 5 #1 or #9	63.6630(a);	Install, operate, and maintain a continuous parametric monitoring system (CPMS) to continuously monitor catalyst inlet temperature according to the procedures in 63.6625(b) and the procedures in the site-specific monitoring plan.
63.6625(h)		Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which the emissions standards

	applicable to all times other than startup in Table 2a apply.
63.6640(b)	If the catalyst is changed, the values of the operating parameters measured during the initial performance test must be reestablished. When the values of the operating parameters are reestablished, a performance test must also be conducted to demonstrate that the required emission limitation applicable to the stationary RICE is being met.

[Authority for term: OAC rule 3745-77-07(A)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI 02-21803]

d) **Monitoring and/or Recordkeeping Requirements**

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

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI 02-21803]

- (2) The permittee shall comply with the following monitoring and recordkeeping requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6625(b)(3)	The CPMS must collect data at least once every 15 minutes.
63.6625(b)(4)	For a CPMS for measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 °C (5 °F) or 1% of the measurement range, whichever is larger.
63.6625(b)(5)	The CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan must be conducted at least annually.
63.6625(b)(6)	A performance evaluation of each CPMS must be conducted in accordance with the site-specific monitoring plan.
63.6635(b)	Monitor continuously at all times that the stationary RICE is operating, except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities.
63.6625(c)	Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations may not be used to report emission or operating levels. However, all the valid data collected during all other periods must be used.
63.6640(a); Table 6 #1 or #7	Reduce CO or formaldehyde emissions and using an oxidation catalyst and a CPMS: i. Conduct performance tests for CO or formaldehyde to demonstrate that the required CO percent reduction is achieved or the emissions remain at or below the formaldehyde concentration limit.



	ii. Collect the catalyst inlet temperature data according to 63.6625(b). iii. Reduce the data to 4-hr rolling averages within the operating limitations for the catalyst inlet temperature. iv. Maintain the 4-hr rolling averages within the operating limitation for the catalyst inlet temperature (between 450 °F and 1,350 °F). v. Measure the pressure drop across the catalyst once per month at 100% load ($\pm 10\%$) and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the most recent performance test which demonstrated compliance.
63.6655(a)(1); 63.10(b)(2)(xiv)	Maintain records of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted.
63.6655(a)(2)	Maintain records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment) or the air pollution control monitoring equipment.
63.6655(a)(3); 63.10(b)(2)(viii)	Maintain record of performance tests and performance evaluations.
63.6655(a)(4)	Maintain records of all required maintenance performed on the air pollution control and monitoring equipment.
63.6655(a)(5)	Maintain records of actions taken during periods of malfunction to minimize emissions in accordance with 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
63.6655(b)	Maintain the following records for each CPMS: (1) Records described in 63.10(b)(2)(vi) through (xi). (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 63.8(d)(3). (3) Request for alternatives to the relative accuracy test for CPMS as required in 63.8(f)(6)(i), if applicable.
63.6655(d)	Maintain the records required in Table 6 to show continuous compliance with each emission or operating limitation that applies.
63.6660(a) – (c); 63.10(b)(1)	Maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective actions, report, or record.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI 02-21803]

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than NG was burned in this EU.

Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI 02-21803]

- (2) The permittee shall comply with the following reporting requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6620(j)	Submit the results of each performance test following the procedure specified in 63.9(k) within 60 days after the date of completing each performance test.
63.6645(a)	Submit all of the notifications in 63.7(b) and (c), 63.8(e), 63.8(f)(4), 63.9(b) through (e), and 63.9(h) that apply by the dates specified.
63.6645(a); 63.6645(g); 63.7(b); 63.8(e)(2) - (3); 63.9(e)	Submit notification of intention to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin.
63.6640(b); 63.6650	Report each instance in which an emission limitation or operating limitation in Table 2a or 2b was not met. These instances are deviations from the emission and operating limitation in this subpart.
63.6645(h)	Submit a notification of Compliance Status according to 63.9(h)(2)(ii).
63.6650(c); 63.6650(e); 63.6650(b); Table 7 #1 to Subpart ZZZZ	Submit semiannual Compliance Reports containing the information in 63.6650(c) and (e).
63.6650(f); 63.6650(i)	Submit all semiannual Compliance reports using the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri) for this subpart and following the procedure specified in 63.9(k), except any Confidential Business Information (CBI) must be submitted according to the procedures in 63.6645(h).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI 02-21803]

f) Testing Requirements

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

a. Emission Limitation

NO_x emissions shall not exceed 3.66 lbs/hr and 16.03 TPY.

Applicable Compliance Method:

The hourly NO_x limitation was established using the following equation:



$$\frac{1.54 * 10^{-3} \text{ lb NO}_x}{\text{HP} - \text{hr}} * 2,370 \text{ HP} = 3.66 \frac{\text{lbs}}{\text{hr}} \text{ NO}_x$$

where:

$$\frac{1.54 * 10^{-3} \text{ lb}}{\text{HP} - \text{hr}} \quad \text{NO}_x \text{ emission factor provided by manufacturer, lb/HP-hr; and}$$

$$=$$

$$2,370 \text{ HP} = \quad \text{rated engine capacity, HP.}$$

The TPY emission limitation was developed by multiplying the short-term allowable NO_x emission limitation (3.66 lbs/hr) by the maximum annual hours of operation (8,760 hrs/yr), then dividing by 2,000 lbs/ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI 02-21803]

b. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon VE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-03(B)(1); and PTI 02-21803]

c. Emission Limitation:

PE shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-11(B)(5)(b); and PTI 02-21803]

d. Emission Limitation:

The permittee shall comply with one of the following emission limitations, except during periods of startup:

reduce CO emissions by 93% or more at 100% load ($\pm 10\%$); or

limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O₂.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in f)(2) through f)(6).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI 02-2103]

- (2) The permittee shall conduct, or have conducted, emission testing for this EU per the following requirements:
- a. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) notification to the Ohio EPA Northeast DO. The ITT notification shall describe in detail the proposed test methods and procedures, the EU 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 Ohio EPA Northeast DO's refusal to accept the results of the emission test(s).
 - b. Personnel from the Ohio EPA Northeast DO 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 EU and the testing procedures provide a valid characterization of the emissions from the EU and/or the performance of the control equipment.
 - c. A comprehensive written report on the results of the emissions test(s) shall be signed by the person(s) responsible for the tests and submitted to the Ohio EPA Northeast DO 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 Ohio EPA Northeast DO.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 02-2103]

- (3) The permittee shall conduct, or have conducted, emission testing for this EU in accordance with the following requirements to demonstrate compliance with the emission limitation identified in 40 CFR Part 63, Subpart ZZZZ:
- a. Emission testing shall be conducted on an annual basis from the last performance test that demonstrated the EU was in compliance (05/07/2026). If the results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde emission limitation, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis in accordance with 40 CFR 63.6615 and Table 3 to Subpart ZZZZ of 40 CFR Part 63.
 - b. In accordance with 40 CFR 63.6645(g), the permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR Part 63.7(b)(1).
 - c. The performance testing shall be conducted to demonstrate that the required concentration of CO or formaldehyde in the exhaust is achieved; to establish the pressure drop across the catalyst, in inches of water; and to document that the catalyst inlet temperature is between 450° F and 1,350° F.



- d. In accordance with 40 CFR 63.6620(b), the test must be conducted at any load conditions within $\pm 10\%$ of 100% load.
- e. In accordance with 40 CFR 63.6620(d), three separate test runs must be conducted for each performance test required in 40 CFR Part 63, Subpart ZZZZ, as specified in 40 CFR Part 63.7(e)(3). Each test run must last at least one hour.
- f. In accordance with 40 CFR 63.6640(b), when the catalyst is changed, the permittee must reestablish the values of the operating parameters measured during the initial performance test. When the permittee reestablishes the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the required emission limitation applicable to this EU is being met.
- g. In accordance with 40 CFR 63.6620(i), the engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.
- h. In accordance with 40 CFR 63.6620(j), the results of the performance test must also be submitted to U.S. EPA following the procedure specified in 40 CFR 63.9(k) within 60 days after the date of completing each performance test. Data collected using test methods supported by the U.S. EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, an electronic file consistent with the extensible markup language (XML) schema listed on the U.S. EPA's ERT website may be submitted. Data collected using test methods that are not supported by the U.S. EPA's ERT as listed on the U.S. EPA's ERT website at the time of the test must be included as an attachment in the ERT or alternate electronic file.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6600(b); 63.6615; 63.6620(a); Tables 3, 4, and 6 to Subpart ZZZZ of 40 CFR Part 63; and PTI 02-21803]

- (4) Each performance test shall be conducted according to the following requirements that are specified in Table 4 to 40 CFR Part 63, Subpart ZZZZ:
 - a. Measure the O₂ at the inlet and outlet of the control device according to Method 3 or 3A or 3B of 40 CFR Part 60, Appendix A-2, or ASTM D6522-00. Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.



- b. Measure the CO at the inlet and outlet of the control device according to ASTM D6522-00 or Method 10 of 40 CFR Part 60, Appendix A-4. The CO concentration must be at 15% O₂, dry basis.
- c. If complying with the formaldehyde emissions standard, measure formaldehyde at the exhaust of the stationary RICE according to Method 320 or 323 of 40 CFR Part 63, Appendix A; or ASTM D6348-03, provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130. The formaldehyde concentration must be at 15% O₂, dry basis.
- d. Measure moisture content at the inlet and outlet of the control device as needed to determine CO and O₂ concentrations on a dry basis according to Method 4 of 40 CFR Part 60, Appendix A-3, or Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348-03. Measurements to determine moisture content must be made at the same time and location as the measurements for CO concentration.
- e. Methods 3A and 10 may be used as options to ASTM-D6522-00. A copy of ASTM D6522-00 may be obtained from at least one of the following addresses: ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6610; Table 4 to Subpart ZZZZ of 40 CFR Part 63; and PTI 02-21803]

- (5) The following equation must be used to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} * 100 = R$$

where:

- C_i = concentration of CO or formaldehyde at the control device inlet;
- C_o = concentration of CO or formaldehyde at the control device outlet; and
- R = Percent reduction of CO or formaldehyde emissions.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(1); and PTI 02-21803]

- (6) The CO or formaldehyde concentrations at the inlet and outlet of the control device must be normalized to a dry basis and to 15% O₂, or an equivalent percent CO₂. If pollutant concentrations are to be corrected to 15% O₂ and CO₂ concentration is measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described below.
- a. Calculate the fuel-specific F_o value for the fuel burned during the test using values obtained from Method 19, section 5.2, of 40 CFR Part 60, Appendix A-6, and the following equation:

$$F_o = \frac{0.209F_d}{F_c}$$

where:



- F_o = fuel factor based on the ratio of oxygen volume to the ultimate CO_2 volume produced by the fuel at 0% excess air;
0.209 = fraction of air that is oxygen, %/100;
 F_d = ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm^3/J ($\text{dscf}/10^6 \text{ Btu}$); and
 F_c = Ratio of the volume of CO_2 produced to the gross calorific value of the fuel from Method 19, dsm^3/J ($\text{dscf}/10^6$).

- b. Calculate the CO_2 correction factor for correcting measurement data to 15% O_2 as follows:

$$X_{\text{CO}_2} = \frac{5.9}{F_o}$$

where:

- X_{CO_2} = CO_2 correction factor, %; and
5.9 = 20.9% O_2 - 15% O_2 , the defined O_2 correction value, %.

- c. Calculate the CO and formaldehyde gas concentration adjusted to 15% O_2 using CO_2 as follows:

$$C_{\text{adj}} = C_d \frac{X_{\text{CO}_2}}{\% \text{CO}_2}$$

where:

- C_{adj} = calculated concentration of CO or formaldehyde adjusted to 15% O_2 ;
 C_d = measured concentration of CO or formaldehyde uncorrected;
 X_{CO_2} = CO_2 correction factor, %; and
 $\% \text{CO}_2$ = Measured CO_2 concentration measured, dry basis, %.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(2); and PTI 02-21803]

g) Miscellaneous Requirements

- (1) Any amendments to 40 CFR Part 63, Subpart ZZZZ shall supersede the compliance limitations and/or compliance options from this subpart, if modified from those identified in this permit.

3. B010, Engine 6

Operations, Property and/or Equipment Description:

2,370 HP NG-fired 4SLB SI RICE with catalytic oxidation: CAT G3608

- 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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3) [PTI P0104773]	NOx emissions shall not exceed 3.66 lbs/hr and 16.0 TPY.
b.	OAC rule 3745-31-05(A)(3)(a)(ii) [PTI P0104773]	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO and VOC emissions from this air contaminant source since the controlled PTE for each pollutant is less than 10 TPY taking into account the restrictions in 40 CFR Part 63, Subpart ZZZZ. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from this air contaminant source since the uncontrolled PTE is less than 10 TPY.
c.	OAC rule 3745-17-07(A)	VE from any stack serving this EU shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/MMBtu of actual heat input from RICE greater than 600 HP.
e.	OAC rule 3745-18-06(G)	Pursuant to OAC rule 3745-18-06(A), this stationary ICE is exempt from the SO ₂ emission limitation specified by this rule during any calendar day in which NG is the only fuel burned.
f.	OAC rule 3745-110-03(F)(2)	The emission limitation specified by this rule is less stringent than the NOx limitation required per 40 CFR Part 60, Subpart JJJJ.
g.	40 CFR Part 60, Subpart JJJJ (40 CFR 60.4230 – 60.4248)	The exhaust emissions from this engine shall not exceed: 2.0 g of NOx/HP-hr or 160 ppmvd NOx at 15% O ₂ ; 4.0 g of CO/HP-hr or 540 ppmvd CO at 15% O ₂ ; and 1.0 g of VOC/HP-hr or 86 ppmvd VOC at 15% O ₂ .



		See b)(2)a.
h.	40 CFR Part 60, Subpart A (40 CFR 60.1 – 60.19)	Table 3 to Subpart JJJJ of 40 CFR Part 60 – Applicability of General Provisions to Subpart JJJJ shows which parts of the General Provisions apply.
i.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 – 63.6675)	The permittee shall comply with one of the following emission limitations, except during periods of startup: reduce CO emissions by 93% or more at 100% load ($\pm 10\%$); or limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O ₂ . See b)(2)b.
j.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 63.16)	Table 8 to Subpart ZZZZ of 40 CFR Part 63 – Applicability of General Provisions to Subpart ZZZZ shows which parts of the General Provisions apply.

(2) Additional Terms and Conditions

- a. In accordance with 40 CFR 60.4230(a)(4)(i), this EU is a stationary SI ICE with a maximum engine power greater than or equal to 500 HP that commenced construction after June 12, 2006, was manufactured on or after July 1, 2007, and is subject to the requirements of 40 CFR Part 60, Subpart JJJJ.
- b. In accordance with 40 CFR 63.6590(a)(2)(i), this EU is a new stationary RICE located at a major source of HAP emissions that commenced construction after December 19, 2002, and is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

- (1) The permittee shall burn only NG in this EU.

[Authority for term: OAC rules 3745-77-07(A)(1); 3745-31-05(A)(3); and PTI P0104773]

- (2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4234	Operate and maintain the stationary SI ICE to achieve the emission standards over the entire life of the engine.
60.4243(b)(2)(ii)	Maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.
60.4243(e)	Stationary SI NG-fired engines may operate using propane for a maximum of 100 hrs/yr as an alternative fuel solely during emergency operations but must keep records of such use.
60.4243(g)	Air-to-fuel ratio (ATF) controllers shall be used with the operation of three-way catalysts/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

[Authority for term: OAC rule 3745-77-07(A)(1); 40 CFR Part 60, Subpart JJJJ; and PTI P0104773]



- (3) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6595(a)(3)	The RICE must be in compliance with the emission and operating limitations in 40 CFR Part 63, Subpart ZZZZ upon startup.
63.6605(a)	Maintain compliance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63, Subpart ZZZZ that apply at all times.
63.6605(b)	At all times, operate and maintain any affected source, including associated air pollution control equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
63.6625(b)(1); 63.8(d)	Prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and quality assurance and quality control elements outlined in 63.6625(b)(1)(i) through (v) and 63.8(d).
63.6625(b)(2); 63.6630(a); Table 5 #1 or #9	Install, operate, and maintain a continuous parametric monitoring system (CPMS) to continuously monitor catalyst inlet temperature according to the requirements in 63.6625(b) and the procedures in the site-specific monitoring plan.
63.6625(h)	Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2a apply.
63.6630(b); 63.6600(b); 63.6640(a); Table 2b #1	a. Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100% load ($\pm 10\%$) from the pressure drop across the catalyst that was measured during the initial performance test; and b. Maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.
63.6640(b)	If the catalyst is changed, the values of the operating parameters measured during the initial performance test must be reestablished. When the values of the operating parameters are reestablished, a performance test must also be conducted to demonstrate that the required emission limitation applicable to the stationary RICE is being met.

[Authority for term: OAC rule 3745-77-07(A)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI P0104773]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0104773]

- (2) The permittee shall comply with the following monitoring and recordkeeping requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4243(b)(2)(ii)	Keep a maintenance plan and records of conducted maintenance.
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60.4245(a)	Maintain the following records: (1) All notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification. (2) Maintenance conducted on the engine. (4) Documentation that the engine meets the emission standards.
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[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; and PTI P0104773]

- (3) The permittee shall comply with the following monitoring and recordkeeping requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6625(b)(3)	The CPMS must collect data at least once every 15 minutes.
63.6625(b)(4)	For a CPMS measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 °C (5 °F) or 1% of the measurement range, whichever is larger.
63.6625(b)(5)	The CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan must be conducted at least annually.
63.6625(b)(6)	A performance evaluation of each CPMS must be conducted in accordance with the site-specific monitoring plan.
63.6635(b)	Monitor continuously at all times that the stationary RICE is operating, except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities.
63.6635(c)	Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities may not be used in data averages and calculations used to report emission or operating levels. However, all the valid data collected during all other periods must be used.
63.6640(a); Table 6 #1 or #7	Reduce CO or formaldehyde emissions and using an oxidation catalyst and a CPMS: i. Conduct performance tests for CO or formaldehyde to demonstrate that the required CO percent reduction is achieved or the emissions remain at or below the formaldehyde concentration limit. ii. Collect the catalyst inlet temperature data according to 63.6625(b). iii. Reduce the data to 4-hr rolling averages within the operating limitations for the catalyst inlet temperature. iv. Maintain the 4-hr rolling averages within the operating limitation for the catalyst inlet temperature (between 450 °F and 1,350 °F). v. Measure the pressure drop across the catalyst once per month at 100% load (± 10%) and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the most recent performance test which demonstrated compliance.
63.6655(a)(1); 63.10(b)(2)(xiv)	Maintain records of each notification and report that is submitted to comply with this subpart, including all documentation

	supporting any Initial Notification or Notification of Compliance Status that was submitted.
63.6655(a)(2)	Maintain records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment) or the air pollution control monitoring equipment.
63.6655(a)(3); 63.10(b)(2)(viii)	Maintain record of performance tests and performance evaluations.
63.6655(a)(4)	Maintain records of all required maintenance performed on the air pollution control and monitoring equipment.
63.6655(a)(5)	Maintain records of actions taken during periods of malfunction to minimize emissions in accordance with 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
63.6655(b)	Maintain the following records for each CPMS: (1) Records described in 63.10(b)(2)(vi) through (xi). (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 63.8(d)(3). (3) Request for alternatives to the relative accuracy test for CPMS as required in 63.8(f)(6)(i), if applicable.
63.6655(d)	Maintain the records required in Table 6 to show continuous compliance with each emission or operating limitation that applies.
63.6660(a) - (c); 63.10(b)(1)	Maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each occurrence, measurement, maintenance, corrective actions, report, or record.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI P0104773]

e) Reporting Requirements

- (1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than NG was burned in this EU.

Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0104773]

- (2) The permittee shall comply with the following reporting requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4245(c)	Initial notification requirements
60.4245(d)	Submit a copy of each performance test as conducted in 60.4244 within 60 days after the test has been completed.
60.4245(f) - (j)	Submit notification and reports to the U.S. EPA following the procedures specified in 60.425(g) via the Compliance and Emissions Data Reporting Interface (CEDRI), which can be accessed through the U.S. EPA's Central Data Exchange (CDX) (https://cdx.epa.gov/).



[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; and PTI P0104773]

- (3) The permittee shall comply with the following reporting requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6620(j)	Submit the results of each performance test following the procedure specified in 63.9(k) within 60 days after the date of completing each performance test.
63.6645(a)	Submit all of the notifications in 63.7(b) and (c), 63.8(e), 63.8(f)(4), 63.9(b) through (e), and 63.9(h) that apply by the dates specified.
63.6645(a); 63.6645(g); 63.7(b); 63.8(e)(2) – (3); 63.9(e)	Submit notification of intention to conduct a performance test at least 60 calendar days before the performance test is initially scheduled to begin.
63.6640(b); 63.6650	Report each instance in which an emission limitation or operating limitation in Table 2a or 2b was not met. These instances are deviations from the emission and operating limitation in this subpart.
63.6645(h)	Submit a notification of Compliance Status according to 63.9(h)(2)(ii).
63.6650(c); 63.6650(e); 63.6650(b); Table 7 #1	Submit semiannual Compliance Reports containing the information in 63.6650(c) and (e).
63.6650(f); 63.6650(i)	Submit all semiannual Compliance reports using the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri) for this subpart and following the procedure specified in 63.9(k), except any Confidential Business Information (CBI) must be submitted according to the procedures in 63.6645(h).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI P010473]

f) Testing Requirements

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

a. Emissions Limitation

NO_x emissions shall not exceed 3.66 lbs/hr and 16.0 TPY.

Applicable Compliance Method

The hourly NO_x limitation was established using the following equation:

$$\frac{1.54 * 10^{-3} \text{ lb NO}_x}{\text{HP} - \text{hr}} * 2,370 \text{ HP} = 3.66 \frac{\text{lbs}}{\text{hr}} \text{ NO}_x$$

where:



$$\frac{1.54 * 10^{-3} \text{ lb}}{\text{HP} - \text{hr}} \quad \text{NOx emission factor provided by manufacturer, lb/HP-hr; and}$$
$$=$$
$$2,370 \text{ HP} = \quad \text{rated engine capacity, HP.}$$

The TPY emission limitation was developed by multiplying the short-term allowable NOx emission limitation (3.66 lbs/hr) by the maximum annual hours of operation (8,760 hrs/yr), then dividing by 2,000 lbs/ton. Therefore, if compliance is shown with the short-term allowable emission limitation, compliance shall also be shown with the annual emission limitation.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0104773]

b. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon VE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-03(B)(1); and PTI P0104773]

c. Emission Limitation:

PE shall not exceed 0.062 lb/mmBtu of actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated based on an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-11(B)(5)(b); and PTI P0104773]

d. Emission Limitation:

The permittee shall comply with the following emission limitations:

NOx emissions shall not exceed 2.0 g/HP-hr or 160 ppmvd at 15% oxygen.

CO emissions shall not exceed 4.0 g/HP-hr or 540 ppmvd at 15% oxygen.

VOC emissions shall not exceed 1.0 g/HP-hr or 86 ppmvd at 15% oxygen.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emissions test performed in accordance with the methods and procedures specified in f)(2) through f)(6).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; and PTI P0104773]

e. Emission Limitation:



The permittee shall comply with one of the following emission limitations, except during periods of startup:

reduce CO emissions by 93% or more at 100% load ($\pm 10\%$); or

limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O₂.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emissions test performed in accordance with the methods and procedures specified in f)(2) and f)(7) through f)(10).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; and PTI P0104773]

- (2) The permittee shall conduct, or have conducted, emission testing for this EU per the following requirements:

- a. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) notification to the Ohio EPA Northeast DO. The ITT notification shall describe in detail the proposed test methods and procedures, the EU 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 Ohio EPA Northeast DO's refusal to accept the results of the emission test(s).
- b. Personnel from the Ohio EPA Northeast DO 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 EU and the testing procedures provide a valid characterization of the emissions from the EU and/or the performance of the control equipment.
- c. A comprehensive written report on the results of the emissions test(s) shall be signed by the person(s) responsible for the tests and submitted to the Ohio EPA Northeast DO 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 Ohio EPA Northeast DO.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI P0104773]

- (3) The permittee shall conduct, or have conducted, emission testing for this EU in accordance with the following requirements to demonstrate compliance with the emission limitations identified in 40 CFR Part 60, Subpart JJJJ:

- a. Testing shall be conducted every 8,760 hours of operation or 3 years, whichever comes first, of the last performance test that demonstrated the EU was in compliance (5/07/2026).
- b. The following test method(s) shall be employed, in accordance with Table 2 of 40 CFR Part 60, Subpart JJJJ, to demonstrate compliance with the allowable mass emission rates:



- i. Method 1 or 1A of 40 CFR Part 60, Appendix A-1 to select the sampling port location and the number/location of traverse points at the exhaust of the stationary ICE.
- ii. Method 2 or 2C of 40 CFR Part 60, Appendix A-1 or Method 19 of 40 CFR Part 60, Appendix A-7 to determine the exhaust flowrate of the stationary ICE exhaust.
- iii. Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A-2 or ASTM Method D6522-00 to determine the O₂ concentration of the stationary ICE exhaust at the sampling port location.
- iv. Method 4 of 40 CFR Part 60, Appendix A-3; or Method 320 of 40 CFR Part 63, Appendix A; or ASTM D6348-03 to measure the moisture content of the stationary ICE exhaust at the sampling port location.
- v. Methods 7, 7A, 7C, 7D, or 7E, of 40 CFR Part 60, Appendix A-4, or ASTM Method D6522-00 to measure NO_x at the exhaust of the stationary RICE. If using a control device, the sampling site must be located at the outlet of the control device.
- vi. Method 10 of 40 CFR Part 60, Appendix A4; ASTM Method D6522-00, Method 320 of 40 CFR Part 63, Appendix A; or ASTM D 6348-03 to measure CO at the exhaust of the stationary ICE. If using a control device, the sampling site must be located at the outlet of the control device.
- vii. Method 25A of 40 CFR Part 60, Appendix A-6 and Method 18 of 40 CFR Part 60, Appendix A-7; or ASTM D6348.03 to measure VOC at the exhaust of the stationary ICE engine. If using a control device, the sampling site must be located at the outlet of the control device.

Alternative U.S. EPA-approved test methods may be used with prior approval from the OEPA (alternative methods allowed per footnote to Table 2 of 40 CFR Part 60, Subpart JJJJ).

- c. In accordance with 40 CFR 60.4244(a), each performance test must be conducted within 10% of 100% peak (or the highest achievable) load and according to the requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to 40 CFR Part 60, Subpart JJJJ.
- d. In accordance with 40 CFR 60.4244(b), performance tests cannot be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c).
- e. In accordance with 40 CFR 60.4244(c), three separate test runs must be conducted for each performance test, as specified in 40 CFR 60.8(f) and each test run must last at least 1 hour.
- f. In accordance with 40 CFR 60.4245(d), a copy of the performance test must also be submitted electronically to U.S. EPA according to 40 CFR 60.4245(f) within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference – see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results



from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D6348-03 report results of all QA/QC procedure in Annexes 1 – 7.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ and Table 2; and PTI P0104773]

- (4) To determine compliance with the NO_x mass per unit output emission limitation, the concentration of NO_x in the engine exhaust (in ppmv) shall be converted to g/HP-hr using the following equation:

$$ER = \frac{C_d * 1.912 * 10^{-3} * Q * T}{HP - hr}$$

where:

ER = emission rate of NO_x, g/HP-hr;
 C_d = measured NO_x concentration, ppmv;
 $1.912 * 10^{-3}$ = conversion constant for ppm NO_x to g/scm at 20 °C;
 Q = stack gas volumetric flow rate, scm/hr (dry);
 T = time of test run, hrs; and
 $HP - hr$ = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(d); and PTI P0104773]

- (5) To determine compliance with the CO mass per unit output emission limitation, the concentration of CO in the engine exhaust (in ppmv) shall be converted to g/hp-hr using the following equation:

$$ER = \frac{C_d * 1.164 * 10^{-3} * Q * T}{HP - hr}$$

where:

ER = emission rate of CO, g/HP-hr;
 C_d = measured CO concentration, ppmv;
 $1.164 * 10^{-3}$ = conversion constant for ppm CO to g/scm at 20 °C;
 Q = stack gas volumetric flow rate, scm/hr (dry);
 T = time of test run, hrs; and
 $HP - hr$ = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(e); and PTI P0104773]

- (6) For the purposes of 40 CFR Part 60, Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, the concentration of VOC in the engine exhaust (in ppmv) shall be converted to g/hp-hr using the following equation:

$$ER = \frac{C_d * 1.833 * 10^{-3} * Q * T}{HP - hr}$$

where:

ER = emission rate of VOC, g/HP-hr;
 C_d = VOC concentration measured as propane, ppmv;



$1.833 * 10^{-3}$ = conversion constant for ppm VOC measured as propane, to g/scm at 20 °C;

Q = stack gas volumetric flow rate, scm/hr (dry);

T = time of test run, hrs; and

$HP - hr$ = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(f); and PTI P0104773]

- a. If using Method 18 of Part 60, Appendix A, or Method 320 of Part 63, Appendix A, to determine compliance with the VOC mass per unit output emission limitation, the measured VOC emissions can be corrected to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 can be corrected for response factor differences using the following equation:

$$RF_i = \frac{C_{Mi}}{C_{Ai}}$$

where:

RF_i = response factor of compound i when measured with EPA Method 25A;

C_{Mi} = measured concentration of compound i in ppmv as carbon; and

C_{Ai} = true concentration of compound i in ppmv as carbon.

- b. The results from Method 320 can be corrected for response factor differences using the following equation:

$$C_{icorr} = RF_i * C_{imeas}$$

where:

C_{icorr} = concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon; and

C_{imeas} = concentration of compound i measured by EPA Method 320, ppmv as carbon.

- c. The corrected VOC concentration can then be placed on a propane basis using the following equation:

$$C_{Peq} = 0.6098 * C_{icorr}$$

where:

C_{Peq} = concentration of compound i in mg of propane equivalent per DSCM.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(g); and PTI P0104773]

- (7) The permittee shall conduct, or have conducted, emission testing for this EU in accordance with the following requirements to demonstrate compliance with the emission limitation identified in 40 CFR Part 63, Subpart ZZZZ:

- a. Emission testing shall be conducted on an annual basis from the last performance test that demonstrated the EU was in compliance (05/07/2026). If the results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde emission limitation, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis in accordance with 40 CFR 63.6615 and Table 3.



- b. In accordance with 40 CFR 63.6645(g), the permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR Part 63.7(b)(1).
- c. The performance testing shall be conducted to demonstrate that the required concentration of CO or formaldehyde in the exhaust is achieved; to establish the pressure drop across the catalyst, in inches of water; and to document that the catalyst inlet temperature is between 450 °F and 1,350 °F.
- d. In accordance with 40 CFR 63.6620(b), the test must be conducted at any load conditions within $\pm 10\%$ of 100% load.
- e. In accordance with 40 CFR 63.6620(d), three separate test runs must be conducted for each performance test required in 40 CFR Part 63, Subpart ZZZZ, as specified in 40 CFR Part 63.7(e)(3). Each test run must last at least one hour.
- f. In accordance with 40 CFR 63.6640(b), when the catalyst is changed, the permittee must reestablish the values of the operating parameters measured during the initial performance test. When the permittee reestablishes the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the required emission limitation applicable to this EU is being met.
- g. In accordance with 40 CFR 63.6620(i), the engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.
- h. In accordance with 40 CFR 63.6620(j), the results of the performance test must also be submitted to U.S. EPA following the procedure specified in 40 CFR 63.9(k) within 60 days after the date of completing each performance test. Data collected using test methods supported by the U.S. EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, an electronic file consistent with the extensible markup language (XML) schema listed on the U.S. EPA's ERT website may be submitted. Data collected using test methods that are not supported by the U.S. EPA's ERT as listed on the U.S. EPA's ERT website at the time of the test must be included as an attachment in the ERT or alternate electronic file.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6600(b); 63.6615; 63.6620(a); Tables 3, 4, and 6 to Subpart ZZZZ of 40 CFR Part 63; and PTI P0104773]

- (8) Each performance test must be conducted according to the following requirements that are specified in Table 4 to 40 CFR Part 63, Subpart ZZZZ:
- a. Measure the O₂ at the inlet and outlet of the control device according to Method 3 or 3A or 3B of 40 CFR Part 60, Appendix A-2, or ASTM D6522-00. Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.
 - b. Measure the CO at the inlet and outlet of the control device according to ASTM D6522-00 or Method 10 of 40 CFR Part 60, Appendix A-4. The CO concentration must be at 15% O₂, dry basis.
 - c. If complying with the formaldehyde emissions standard, measure formaldehyde at the exhaust of the stationary RICE according to Method 320 or 323 of 40 CFR Part 63, Appendix A; or ASTM D6348-03, provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130. The formaldehyde concentration must be at 15% O₂, dry basis.
 - d. Measure moisture content at the inlet and outlet of the control device as needed to determine CO and O₂ concentrations on a dry basis according to Method 4 of 40 CFR Part 60, Appendix A-3, or Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348-03. Measurements to determine moisture content must be made at the same time and location as the measurements for CO concentration.
 - e. Methods 3A and 10 may be used as options to ASTM-D6522-00. A copy of ASTM D6522-00 may be obtained from at least one of the following addresses: ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6610; Table 4 to Subpart ZZZZ of 40 CFR Part 63; and PTI P0104773]

- (9) The following equation must be used to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} * 100 = R$$

where:

- C_i = concentration of CO or formaldehyde at the control device inlet;
- C_o = concentration of CO or formaldehyde at the control device outlet; and
- R = Percent reduction of CO or formaldehyde emissions.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(1); and PTI P0104773]

- (10) The CO or formaldehyde concentrations at the inlet and outlet of the control device must be normalized to a dry basis and to 15% O₂, or an equivalent percent CO₂. If pollutant concentrations are to be corrected to 15% O₂ and CO₂ concentration is measured in lieu of O₂ concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described below.
- a. Calculate the fuel-specific Fo value for the fuel burned during the test using values obtained from Method 19, section 5.2 of 40 CFR Part 60, Appendix A-6, and the following equation:

$$F_o = \frac{0.209F_d}{F_c}$$

where:

- F_o = fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at 0% excess air;
- 0.209 = fraction of air that is oxygen, %/100;
- F_d = ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶ Btu); and
- F_c = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶).

- b. Calculate the CO₂ correction factor for correcting measurement data to 15% O₂ as follows:

$$X_{CO_2} = \frac{5.9}{F_o}$$

where:

- X_{CO_2} = CO₂ correction factor, %; and
- 5.9 = 20.9% O₂ - 15% O₂, the defined O₂ correction value, %.

- c. Calculate the CO and formaldehyde gas concentration adjusted to 15% O₂ using CO₂ as follows:

$$C_{adj} = C_d \frac{X_{CO_2}}{\%CO_2}$$

where:

- C_{adj} = calculated concentration of CO or formaldehyde adjusted to 15% O₂;
- C_d = measured concentration of CO or formaldehyde uncorrected;
- X_{CO_2} = CO₂ correction factor, %; and
- $\%CO_2$ = Measured CO₂ concentration measured, dry basis, %.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(2); and PTI P0104773]

g) **Miscellaneous Requirements**

- (1) Any amendments to 40 CFR Part 60, Subpart JJJJ or 40 CFR Part 63, Subpart ZZZZ shall supersede the compliance limitations and/or compliance options from these subparts, if modified from those identified in this permit.

4. P019, Fugitive VOCs

Operations, Property and/or Equipment Description:

Fugitive emissions from equipment leaks

- 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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3) [PTI P0123846]	Fugitive VOC emissions shall not exceed 46.56 TPY.

- (2) Additional Terms and Conditions

a. None.

- c) Operational Restrictions

- (1) This operation shall be operated and maintained in a manner consistent with good engineering practices that will minimize and/or eliminate the release of VOC and/or HAP.

[Authority for term: OAC rules 3745-77-07(A)(1); 3745-31-05(A)(3); and PTI P0123846]

- d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall perform weekly inspections, when the facility is in operation and an operator is at the facility, for indications of releases from the station and equipment, including but not limited to valves, connectors, pressure relief devices, open-ended lines, flanges, compressors, instruments, and meters, and any olfactory, visual or auditory indications of equipment leaks. Any equipment, device or component that is designed to protect the equipment or safety of personnel and that vent as part of normal operations is not considered a leak. The positive indication of a release or leak shall be noted in an operations log, along with the following information:

- the name of the inspector;
- the date and time of the inspection;
- the identification of the pressure relief valve that released and/or the piece of equipment that leaked;
- the estimated duration; and
- corrective actions, including leak repair milestones, taken to minimize or eliminate the release or leak.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0123846]

- (2) This facility shall maintain records on all maintenance and/or modifications that are performed in order to minimize and/or eliminate the release of VOC and/or HAPs.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0123846]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify:

- a. Any week that the inspection required in d)(1) was not performed and an explanation of why the inspection was not conducted.

The quarterly deviation (excursion) reports shall be submitted in accordance with the reporting requirements of the Standard Terms and Conditions in Section A of this permit.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); 3745-15-03(B)(1)(a); 3745-15-03(C); and PTI P0123846]

f) Testing Requirements

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

- a. Emissions Limitation

Fugitive VOC emissions shall not exceed 46.56 TPY.

Applicable Compliance Method

The TPY fugitive VOC emission limitation was developed based on the analysis contained in the permittee's application including a recent gas chromatograph, facility throughput capabilities (8,760 hrs), and API Compendium of Greenhouse Gas Emission Methodologies for the Oil and Gas Industry, Table 6.5 (8/2009) emission factors. Compliance with the annual emission limitation shall be determined by using the February 7, 2016 gas chromatograph, API emission factors (8/2009), and the annual operating hours for the facility.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); and PTI P0123846]

g) Miscellaneous Requirements

- (1) None.

5. Emissions Unit Group - ICE Manufactured After 2010: B014, B015, B017, and B018

EU ID	Operations, Property and/or Equipment Description
B014	2,370 HP NG-fired 4SLB SI ICE with catalytic oxidation: CAT 3608
B015	3,750 HP NG-fired 4SLB SI ICE with catalytic oxidation: Caterpillar G3612
B017	3,750 HP NG-fired 4SLB SI ICE with catalytic oxidation: Caterpillar G3612
B018	3,750 HP NG-fired 4SLB SI ICE with catalytic oxidation: Caterpillar G3612

- 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.	ORC 3704.03(T) OAC rule 3745-31-05(A)(3) [PTI P0120468, PTI P0122000, and PTI P0123846]	For EU B014: NOx emissions shall not exceed 11.42 TPY. For EUs B015, B017, and B018: NOx emissions from each EU shall not exceed 18.1 TPY.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the CO and VOC emissions from these air contaminant sources since the controlled PTE is less than 10 TPY for each EU taking into account the restriction in 40 CFR Part 63, Subpart ZZZZ. The BAT requirements under OAC rule 3745-31-05(A)(3) do not apply to the PE from these air contaminant sources since the uncontrolled PTE is less than 10 TPY for each EU.
c.	OAC rule 3745-17-07(A)(1)	VE from any stack serving each EU shall not exceed 20% opacity, as a 6-minute average, except as provided by the rule.
d.	OAC rule 3745-17-11(B)(5)(b)	PE shall not exceed 0.062 lb/MMBtu of actual heat input from RICE greater than 600 HP.
e.	OAC rule 3745-18-06(G)	Pursuant to OAC rule 3745-18-06(A), this stationary ICE is exempt from the SO ₂ emission limitation specified by this rule



		during any calendar day in which NG is the only fuel burned.
f.	OAC rule 3745-110-03(F)(2)	The emission limitation specified by this rule is less stringent than the NO _x limitation required per 40 CFR Part 60, Subpart JJJJ.
g.	40 CFR Part 60, Subpart JJJJ (40 CFR 60.4230 – 60.4248)	The exhaust emissions from each engine shall not exceed: 1.0 g of NO _x /HP-hr or 82 ppmvd at 15% O ₂ ; 2.0 g of CO/HP-hr or 270 ppmvd at 15% O ₂ ; and 0.7 g of VOC (formaldehyde excluded)/HP-hr or 60 ppmvd at 15% O ₂ . See b)(2)a.
h.	40 CFR Part 60, Subpart A (40 CFR 60.1 – 60.19)	Table 3 to Subpart JJJJ of 40 CFR Part 60 – Applicability of General Provisions to Subpart JJJJ shows which parts of the General Provisions apply.
i.	40 CFR Part 63, Subpart ZZZZ (40 CFR 63.6580 – 63.6675)	The permittee shall comply with one of the following emission limitations, except during periods of startup: reduce CO emissions by 93% or more at 100% load (± 10%); or limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O ₂ . See b)(2)b.
j.	40 CFR Part 63, Subpart A (40 CFR 63.1 – 63.16)	Table 8 to Subpart ZZZZ of 40 CFR Part 63 – Applicability of General Provisions to Subpart ZZZZ shows which parts of the General Provisions apply.

(2) Additional Terms and Conditions

- a. In accordance with 40 CFR 60.4230(a)(4)(i), each EU is a stationary SI ICE with a maximum engine power greater than or equal to 500 HP that commenced construction after June 12, 2006, was manufactured on or after July 1, 2007, and is subject to the requirements of 40 CFR Part 60, Subpart JJJJ.
- b. In accordance with 40 CFR 63.6590(a)(2)(i), each EU is a new stationary RICE located at a major source of HAP emissions that commenced construction after December 19, 2002, and is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ.

c) Operational Restrictions

- (1) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4234	Operate and maintain the stationary SI ICE to achieve the emission standards over the entire life of the engine.
60.4243(b)(1); 60.4243(a)(2)(iii); 60.4243(b)(2)(ii)	Maintain and operate the engine in a manner consistent with good air pollution control practices for minimizing emissions.



60.4243(b)(1); 60.4243(a)(2)(iii)	If the certified stationary SI ICE and control device are not operated and maintained according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine and must demonstrate compliance according to 60.4243(a)(2)(i) through (iii), as applicable.
60.4243(e)	A stationary SI NG-fired engine may operate using propane for a maximum of 100 hrs/yr as an alternative fuel solely during emergency operations but must keep records of such use.
60.4243(g)	Air-to-fuel (AFR) controllers shall be used with the operation of three-way catalyst/non-selective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

[Authority for term: OAC rule 3745-77-07(A)(1); 40 CFR Part 60, Subpart JJJJ; PTI P0120468; PTI P0122000; and PTI P0123846]

- (2) The permittee shall comply with the following applicable requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6595(a)(3)	The RICE must be in compliance with the emission and operating limitations in 40 CFR Part 63, Subpart ZZZZ upon startup.
63.6605(a)	Maintain compliance with the emission limitations, operating limitations, and other requirements in 40 CFR Part 63, Subpart ZZZZ that apply at all times.
63.6605(b)	At all times, operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions.
63.6625(b)(1); Table 5; 63.8(d)	Prepare a site-specific monitoring plan that addresses the monitoring system design, data collection, and quality assurance and quality control elements outlined in 63.6625(b)(1)(i) through (v) and 63.8(d).
63.6625(b)(2); 63.6630(a); Table 5 #1 or #9	Install, operate, and maintain a continuous parametric monitoring system (CPMS) to continuously monitor catalyst inlet temperature according to the requirements in 63.6625(b) and the procedures in the site-specific monitoring plan.
63.6625(h)	Minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Table 2a apply.
63.6630(b); 63.6600(b); 63.6640(a); Table 2b #1	a. Maintain the catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100% load ($\pm 10\%$) from the pressure drop across the catalyst that was measured during the initial performance test; and b. Maintain the temperature of the stationary RICE exhaust so that the catalyst inlet temperature is greater than or equal to 450 °F and less than or equal to 1,350 °F.

63.6640(b)	If the catalyst is changed, the values of the operating parameters measured during the initial performance test must be reestablished. When the values of the operating parameters are reestablished, a performance test must also be conducted to demonstrate that the required emission limitation applicable to the stationary RICE is being met.
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[Authority for term: OAC rule 3745-77-07(A)(1); 40 CFR Part 63, Subpart ZZZZ; PTI P0120468; PTI P0122000; and PTI P0123846]

d) **Monitoring and/or Recordkeeping Requirements**

- (1) The permittee shall comply with the following monitoring and recordkeeping requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4243(b)(2)(ii)	Keep a maintenance plan and records of conducted maintenance.
60.4245(a)	Maintain the following records: (1) All notifications submitted to comply with 40 CFR Part 60, Subpart JJJJ and all documentation supporting any notification. (2) Maintenance conducted on the engine. (3) If the EU is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 1048, 1054, and 1060, as applicable. (4) If the EU is not a certified engine or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; PTI P0120468; PTI P0122000; and PTI P0123846]

- (2) The permittee shall comply with the following monitoring and recordkeeping requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6625(b)(3)	The CPMS must collect data at least once every 15 minutes.
63.6625(b)(4)	For a CPMS measuring temperature range, the temperature sensor must have a minimum tolerance of 2.8 °C (5 °F) or 1% of the measurement range, whichever is larger.
63.6625(b)(5)	The CPMS equipment performance evaluation, system accuracy audits, or other audit procedures specified in the site-specific monitoring plan must be conducted at least annually.
63.6625(b)(6)	A performance evaluation of each CPMS must be conducted in accordance with the site-specific monitoring plan.
63.6635(b)	Monitor continuously at all times that the stationary RICE is operating, except for monitor malfunctions, associated repairs, required performance evaluations, and required quality assurance or control activities.
63.6635(c)	Data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities may not be used in data averages and calculations used to report emission or operating levels. However, all the valid data collected during all other periods must be used.



63.6640(a); Table 6 #1 or #7	Reduce CO or formaldehyde emissions and using an oxidation catalyst and a CPMS: i. Conduct performance tests for CO or formaldehyde to demonstrate that the required CO percent reduction is achieved or the emissions remain at or below the formaldehyde concentration limit. ii. Collect the catalyst inlet temperature data according to 63.6625(b). iii. Reduce the data to 4-hr rolling averages within the operating limitations for catalyst inlet temperature. iv. Maintain the 4-hr rolling averages within the operating limitation for the catalyst inlet temperature (between 450 °F and 1,350 °F). v. Measure the pressure drop across the catalyst once per month at 100% load ($\pm 10\%$) and demonstrate that the pressure drop across the catalyst is within the operating limitation established during the most recent performance test which demonstrated compliance.
63.6655(a)(1); 63.10(b)(2)(xiv)	Maintain records of each notification and report that is submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that was submitted.
63.6655(a)(2)	Maintain records of the occurrence and duration (in hours) of each malfunction of operation (i.e., process equipment) or the air pollution control monitoring equipment.
63.6655(a)(3); 63.10(b)(2)(viii)	Maintain records of performance tests and performance evaluations.
63.6655(a)(4)	Maintain records of all required maintenance performed on the air pollution control and monitoring equipment.
63.6655(a)(5)	Maintain records of actions taken during periods of malfunction to minimize emissions in accordance with 63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.
63.6655(b)	Maintain the following records for each CPMS: (1) Records described in 63.10(b)(2)(vi) through (xi). (2) Previous (i.e., superseded) versions of the performance evaluation plan as required in 63.8(d)(3). (3) Request for alternatives to the relative accuracy test for CPMS as required in 63.8(f)(6)(i), if applicable.
63.6655(d)	Maintain the records required in Table 6 to demonstrate continuous compliance with each emission or operating limitation that applies.
63.6625(h)	Maintain a record of each idle and/or startup time that exceeded 30 minutes.
63.6660(a) - (c); 63.10(b)(1)	Maintain files of all information (including all reports and notifications) required by this part recorded in a form suitable and readily available for expeditious inspection and review. The files shall be retained for at least 5 years following the date of each

	occurrence, measurement, maintenance, corrective actions, report, or record
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[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; PTI P0120468; PTI P0122000; and PTI P0123846]

e) Reporting Requirements

- (1) The permittee shall comply with the following reporting requirements identified in 40 CFR Part 60, Subpart JJJJ:

60.4245(c); 60.7(a)(1)	Initial notification requirements.
60.4245(d); 60.4245(f) – (g)	Submit a copy of each performance test as conducted in 60.4244 within 60 days after the test has been completed.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; PTI P0120468; PTI P0122000; and PTI P0123846]

- (2) The permittee shall comply with the following reporting requirements identified in 40 CFR Part 63, Subpart ZZZZ:

63.6620(j)	Submit the results of each performance test following the procedure specified in 63.9(k) within 60 days after the date of completing each performance test.
63.6640(b); 63.6650	Report each instance in which an emission limitation or operating limitation in Table 2a and 2b was not met. These instances are deviations from the emission and operation limitation in this subpart.
63.6640(e)	Report each instance in which the applicable requirements in Table 8 were not met.
63.6645(a)	Submit all of the notifications in 63.7(b) and (c); 63.8(e), 63.8(f)(4), 63.9(b) through (e), and 63.9(h) that apply by the dates specified.
63.6645(g); 63.7(b)(1)	Submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin.
63.6630(c); 63.6645(h)	Submit a Notification of Compliance Status according to 63.9(h)(2)(ii).
63.6650(a) – (e); Table 7 #1	Submit semiannual Compliance reports containing the information in 63.6650(c) through (e) and using the appropriate electronic report template on the CEDRI website (https://www.epa.gov/electronic-reporting-air-emissions/cedri) for this subpart and following the procedure specified in 63.9(k), except any Confidential Business Information (CBI) must be submitted according to the procedures in 63.6645(h).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; PTI P0120468; PTI P0122000; and PTI P0123846]

f) Testing Requirements

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



a. Emissions Limitation

NO_x emissions **from EU B014** shall not exceed 11.42 TPY.

NO_x emissions **from EUs B015, B017, and B018 individually** shall not exceed 18.1 TPY.

Applicable Compliance Method

The annual NO_x limitation was established using the following equation:

$$HP * \frac{0.5 \text{ g NO}_x}{HP - \text{hr}} * \frac{\text{lb}}{453.59 \text{ g}} * \frac{\text{ton}}{2,000 \text{ lbs}} * \frac{8,760 \text{ hrs}}{\text{yr}} = \text{TPY NO}_x$$

where:

HP = rated engine capacity, 2,370 HP for EU B014 and 3,750 HP for EUs B015, B017, and B018;

$\frac{0.5 \text{ g NO}_x}{HP - \text{hr}}$ = NO_x emission factor provided by manufacturer, g/HP-hr;

$\frac{\text{lb}}{453.59 \text{ g}}$ = conversion factor, g/lb;

$\frac{\text{ton}}{2,000 \text{ lbs}}$ = conversion factor, lbs/ton; and

$\frac{8,760 \text{ hrs}}{\text{yr}}$ = conversion factor, hrs/yr.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-31-05(A)(3); PTI P0120468; PTI P0122000; and PTI P0123846]

b. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated based upon VE observations performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Method 9 and OAC rule 3745-17-03(B)(1).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-03(B)(1); PTI P0120468; PTI P0122000; and PTI P0123846]

c. Emission Limitation:

PE shall not exceed 0.062 lb/MMBtu of actual heat input.

Applicable Compliance Method:

If required, compliance shall be demonstrated based on an emission test performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5 and OAC rule 3745-17-03(B)(10).

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-17-11(B)(5)(b); PTI P0120468; PTI P0122000; and PTI P0123846]

d. Emission Limitations:

The permittee shall comply with the following emission limitations for each engine:

NO_x emissions shall not exceed 1.0 g/HP/hr or 82 ppmvd at 15% O₂.

CO emissions shall not exceed 2.0 g/HP-hr or 270 ppmvd at 15% O₂.



VOC emissions shall not exceed 0.7 g/HP-hr or 60 ppmvd at 15% O₂.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in f)(2) through f)(6).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ; PTI P0120468; PTI P0122000; and PTI P0123846]

e. Emission Limitation:

The permittee shall comply with one of the following emission limitations, except during periods of startup:

reduce CO emissions by 93% or more at 100% load ($\pm 10\%$); or

limit the concentration of formaldehyde in the exhaust to 14 ppmvd or less at 15% O₂.

Applicable Compliance Method:

Compliance shall be demonstrated based upon an emission test performed in accordance with the methods and procedures specified in f)(2) and f)(7) through f)(10).

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 63, Subpart ZZZZ; PTI P0120468; PTI P0122000; and PTI P0123846]

(2) The permittee shall conduct, or have conducted, emission testing for each EU per the following requirements:

- a. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an Intent to Test (ITT) notification to the Ohio EPA Northeast DO. The ITT notification shall describe in detail the proposed test methods and procedures, the EU 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 Ohio EPA Northeast DO's refusal to accept the results of the emission test(s).
- b. Personnel from the Ohio EPA Northeast DO 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 EU and the testing procedures provide a valid characterization of the emissions from the EU and/or the performance of the control equipment.
- c. A comprehensive written report on the results of the emission test(s) shall be signed by the person(s) responsible for the tests and submitted to the Ohio EPA Northeast DO 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 Ohio EPA Northeast DO.

[Authority for term: OAC rules 3745-77-07(C)(1); 3745-15-04(A); PTI P0120468; PTI P0122000; and PTI P0123846]

- (3) The permittee shall conduct, or have conducted, emission testing for each EU in accordance with the following requirements to demonstrate compliance with the emission limitations identified in 40 CFR Part 60, Subpart JJJJ.
- a. Testing shall be conducted every 8,760 hours of operation or 3 years, whichever comes first, of the last performance test that demonstrated the EU was in compliance (05/07/2026). Per 40 CFR 610.4243(b)(1), no performance testing is required for certified stationary SI ICE and control device that are operated and maintained according to the manufacturer's emission-related written instructions.
 - b. The following test method(s) shall be employed, in accordance with Table 2 of 40 CFR Part 60, Subpart JJJJ, to demonstrate compliance with the allowable mass emission rates:
 - i. Method 1 or 1A of 40 CFR Part 60, Appendix A-1 to select the sampling port location and the number/location of traverse points at the exhaust of the stationary ICE.
 - ii. Method 2 or 2C of 40 CFR Part 60, Appendix A-1; or Method 19 of 40 CFR Part 60, Appendix A-7 to determine the exhaust flowrate of the stationary ICE exhaust.
 - iii. Method 3, 3A, or 3B of 40 CFR Part 60, Appendix A-2; or ASTM Method D6522-00 to determine the O₂ concentration of the stationary ICE exhaust at the sampling port location.
 - iv. Method 4 of 40 CFR Part 60, Appendix A-3; or Method 320 of 40 CFR Part 63, Appendix A; or ASTM D6348-03 to measure the moisture content of the stationary ICE exhaust at the sampling port location.
 - v. Methods 7, 7A, 7C, 7D, or 7E, of 40 CFR Part 60, Appendix A-4; or ASTM Method D6522-00 to measure NO_x at the exhaust of the stationary ICE. If using a control device, the sampling site must be located at the outlet of the control device.
 - vi. Method 10 of 40 CFR Part 60, Appendix A-4; ASTM Method D6522-00; Method 320 of 40 CFR Part 63, Appendix A; or ASTM D 6348-03 to measure CO at the exhaust of the stationary ICE. If using a control device, the sampling site must be located at the outlet of the control device.
 - vii. Method 25A of 40 CFR Part 60, Appendix A-6 and Method 18 of 40 CFR Part 60, Appendix A-7; or ASTM D6348.03 to measure VOC at the exhaust of the stationary ICE engine. If using a control device, the sampling site must be located at the outlet of the control device.
 - c. In accordance with 40 CFR 60.4244(a), each performance test must be conducted within 10% of 100% peak (or the highest achievable) load and according to the

Alternative U.S. EPA-approved test methods may be used with prior approval from the Ohio EPA (alternative methods allowed per footnote to Table 2 of 40 CFR Part 60, Subpart JJJJ).



requirements in 40 CFR 60.8 and under the specific conditions that are specified by Table 2 to 40 CFR Part 60, Subpart JJJJ.

- d. In accordance with 40 CFR 60.4244(b), performance tests cannot be conducted during periods of startup, shutdown, or malfunction, as specified in 40 CFR 60.8(c).
- e. In accordance with 40 CFR 60.4244(c), three separate test runs must be conducted for each performance test, as specified in 40 CFR 60.8(f) and each test run must last at least 1 hour.
- f. In accordance with 40 CFR 60.4245(d), a copy of the performance test must also be submitted electronically to U.S. EPA according to 40 CFR 60.4245(f) within 60 days after the test has been completed. Performance test reports using EPA Method 18, EPA Method 320, or ASTM D6348-03 (incorporated by reference – see 40 CFR 60.17) to measure VOC require reporting of all QA/QC data. For Method 18, report results from sections 8.4 and 11.1.1.4; for Method 320, report results from sections 8.6.2, 9.0, and 13.0; and for ASTM D348-03 report results of all QA/QC procedures in Annexes 1 – 7.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR Part 60, Subpart JJJJ and Table 2; PTI P0120468; PTI P0122000; and PTI P0123846]

- (4) To determine compliance with the NO_x mass per unit output emission limitation, the concentration of NO_x in the engine exhaust (in ppmv) shall be converted to g/HP-hr using the following equation:

$$ER = \frac{C_d * 1.912 * 10^{-3} * Q * T}{HP - hr}$$

where:

- ER = emission rate of NO_x, g/HP-hr;
- C_d = measured NO_x concentration, ppmv;
- 1.912 * 10⁻³ = conversion constant for ppm NO_x to g/scm at 20 °C;
- Q = stack gas volumetric flow rate, scm/hr (dry);
- T = time of test run, hrs; and
- HP – hr = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(d); PTI P0120468; PTI P0122000; and PTI P0123846]

- (5) To determine compliance with the CO mass per unit output emission limitation, the concentration of CO in the engine exhaust (in ppmv) shall be converted to g/hp-hr using the following equation:

$$ER = \frac{C_d * 1.164 * 10^{-3} * Q * T}{HP - hr}$$

where:

- ER = emission rate of CO, g/HP-hr;
- C_d = measured CO concentration, ppmv;
- 1.164 * 10⁻³ = conversion constant for ppm CO to g/scm at 20 °C;
- Q = stack gas volumetric flow rate, scm/hr (dry);



T = time of test run, hrs; and
 $HP - hr$ = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(e); PTI P0120468; PTI P0122000; and PTI P0123846]

- (6) For the purposes of 40 CFR Part 60, Subpart JJJJ, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, the concentration of VOC in the engine exhaust (in ppmv) shall be converted to g/hp-hr using the following equation:

$$ER = \frac{C_d * 1.833 * 10^{-3} * Q * T}{HP - hr}$$

where:

ER = emission rate of VOC, g/HP-hr;
 C_d = VOC concentration measured as propane, ppmv;
 $1.833 * 10^{-3}$ = conversion constant for ppm VOC measured as propane, to g/scm at 20 °C;
 Q = stack gas volumetric flow rate, scm/hr (dry);
 T = time of test run, hrs; and
 $HP - hr$ = brake work of the engine, HP-hr.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(f); PTI P0120468; PTI P0122000; and PTI P0123846]

- a. If using Method 18 of Part 60, Appendix A, or Method 320 of Part 63, Appendix A, to determine compliance with the VOC mass per unit output emission limitation, the measured VOC emissions can be corrected to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 can be corrected for response factor differences using the following equation:

$$RF_i = \frac{C_{Mi}}{C_{Ai}}$$

where:

RF_i = response factor of compound i when measured with EPA Method 25A;
 C_{Mi} = measured concentration of compound i in ppmv as carbon; and
 C_{Ai} = True concentration of compound i in ppmv as carbon.

- b. The results from Method 320 can be corrected for response factor differences using the following equation:

$$C_{icorr} = RF_i * C_{imeas}$$

where:

C_{icorr} = concentration of compound i corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon; and
 C_{imeas} = concentration of compound i measured by EPA Method 320, ppmv as carbon.

- c. The corrected VOC concentration can then be placed on a propane basis using the following equation:

$$C_{Peq} = 0.6098 * C_{icorr}$$

where:

C_{Peq} = concentration of compound i in mg of propane equivalent per DSCM.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 60.4244(g); PTI P0120468; PTI P0122000; and PTI P0123846]

- (7) The permittee shall conduct, or have conducted, emission testing for each EU in accordance with the following requirements to demonstrate compliance with the emission limitation identified in 40 CFR Part 63, Subpart ZZZZ:
- a. Emission testing shall be conducted on an annual basis from the last performance test that demonstrated the EU was in compliance (05/07/2026). If the results of any subsequent annual performance test indicate that the EU is not in compliance with the CO or formaldehyde emission limitation, or if there is a deviation from any operating limitation, performance tests must be resumed on a semiannual basis in accordance with 40 CFR 63.6615 and Table 3.
 - b. In accordance with 40 CFR 63.6645(g), the permittee shall submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in 40 CFR Part 63.7(b)(1).
 - c. The performance test shall be conducted to demonstrate that the required concentration of CO or formaldehyde in the exhaust is achieved; to establish the pressure drop across the catalyst, in inches of water; and to document that the catalyst inlet temperature is between 450 °F and 1,350 °F.
 - d. In accordance with 40 CFR 63.6620(b), the test must be conducted at any load conditions within ($\pm 10\%$ load) of 100% load.
 - e. In accordance with 40 CFR 63.6620(d), three separate test runs must be conducted for each performance test required in 40 CFR Part 63, Subpart ZZZZ, as specified in 40 CFR 63.7(e)(3). Each test run must last at least one hour.
 - f. In accordance with 40 CFR 63.6640(b), when the catalyst is changed, the permittee must reestablish the values of the operating parameters measured during the initial performance test. When the permittee reestablishes the values of the operating parameters, the permittee must also conduct a performance test to demonstrate that the required emission limitation applicable to this EU is being met.
 - g. In accordance with 40 CFR 63.6620(i), the engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accuracy in percentage of true value must be provided.



- h. In accordance with 40 CFR 63.6620(j), the results of the performance test must be submitted to U.S. EPA following the procedure specified in 40 CFR 63.9(k) within 60 days after the date of completing each performance test. Data collected using test methods supported by the U.S. EPA's Electronic Reporting Tool (ERT) as listed on the EPA's ERT website (<https://www.epa.gov/electronic-reporting-air-emissions/electronic-reporting-tool-ert>) at the time of the test must be submitted in a file format generated using the EPA's ERT. Alternatively, an electronic file consistent with the extensible markup language (XML) schema listed on the U.S. EPA's ERT website may be submitted. Data collected using test methods that are not supported by the U.S. EPA's ERT as listed on the U.S. EPA's ERT website at the time of the test must be included as an attachment in the ERT or alternate electronic file.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6600(b); 63.6615; 63.6620(a); Tables 3, 4, and 6 to Subpart ZZZZ of 40 CFR Part 63; PTI P0120468; PTI P0122000; and PTI P0123846]

- (8) Each performance test must be conducted according to the following requirements that are specified in Table 4 to 40 CFR Part 63, Subpart ZZZZ:

- a. Measure the O₂ at the inlet and outlet of the control device according to Method 3 or 3A or 3B of 40 CFR Part 60, Appendix A-2, or ASTM D6522-00. Measurements to determine O₂ must be made at the same time as the measurements for CO concentration.
- b. Measure the CO at the inlet and outlet of the control device according to ASTM D6522-00 or Method 10 of 40 CFR Part 60, Appendix A-4. The CO concentration must be at 15% O₂ dry basis.
- c. If complying with the formaldehyde emissions standard, measure formaldehyde at the exhaust of the stationary RICE according to Method 320 or 323 of 40 CFR Part 63, Appendix A; or ASTM D6348-03, provided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130. The formaldehyde concentration must be at 15% O₂, dry basis.
- d. Measure moisture content at the inlet and outlet of the control device as needed to determine CO and O₂ concentrations on a dry basis according to Method 4 of 40 CFR Part 60, Appendix A-3, or Method 320 of 40 CFR Part 63, Appendix A, or ASTM D6348-03. Measurements to determine moisture content must be made at the same time and location as the measurements for CO or formaldehyde concentration.
- e. Methods 3A and 10 may be used as options to ASTM-D6522-00. A copy of ASTM D6522-00 may be obtained from at least one of the following addresses: ASTM, 100 Barr Harbor Drive, West Conshohocken, PA 19428-2959, or University Microfilms International, 300 North Zeeb Road, Ann Arbor, MI 48106.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620; Table 4 to Subpart ZZZZ of 40 CFR Part 63; PTI P0120468; PTI P0122000; and PTI P0123846]

- (9) The following equation must be used to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} * 100 = R$$

where:



- C_i = concentration of CO, or formaldehyde at the control device inlet;
 C_o = concentration of CO or formaldehyde at the control device outlet; and
 R = Percent reduction of CO or formaldehyde emissions.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(1); PTI P0120468; PTI P0122000; and PTI P0123846]

- (10) The CO or formaldehyde concentrations at the inlet and outlet of the control device must be normalized to a dry basis and to 15% O₂, or an equivalent percent CO₂. If pollutant concentrations are to be corrected to 15% O₂ and CO₂ concentration is measured in lieu of O₂ concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described below.

- a. Calculate the fuel-specific Fo value for the fuel burned during the test using values obtained from Method 19, section 5.2 of 40 CFR Part 60, Appendix A-6, and the following equation:

$$F_o = \frac{0.209F_d}{F_c}$$

where:

- F_o = fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at 0% excess air;
0.209 = fraction of air that is oxygen, %/100;
 F_d = ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶ Btu); and
 F_c = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶).

- b. Calculate the CO₂ correction factor for correcting measurement data to 15% O₂ as follows:

$$X_{CO2} = \frac{5.9}{F_o}$$

where:

- X_{CO2} = CO₂ correction factor, %; and
5.9 = 20.9% O₂ – 15% O₂, the defined O₂ correction value, %.

- c. Calculate the CO and formaldehyde gas concentration adjusted to 15% O₂ using CO₂ as follows:

$$C_{adj} = C_d \frac{X_{CO2}}{\%CO2}$$

where:

- C_{adj} = calculated concentration of CO or formaldehyde adjusted to 15% O₂;
 C_d = measured concentration of CO or formaldehyde uncorrected;
 X_{CO2} = CO₂ correction factor, %; and
 $\%CO2$ = Measured CO₂ concentration measured, dry basis, %.

[Authority for term: OAC rule 3745-77-07(C)(1); 40 CFR 63.6620(e)(2); PTI P0120468; PTI P0122000; and PTI P0123846]



g) Miscellaneous Requirements

- (1) Any amendments to 40 CFR Part 60, Subpart JJJJ or 40 CFR Part 63, Subpart ZZZZ shall supersede the compliance limitations and/or compliance options from these subparts, if modified from those identified in this permit.