11/24/2026

Anthony Lorenzo
The Medical Center Company
2250 Circle Drive
Cleveland, OH 44106-2664

Facility ID: 1318003059
Permit Number: P0140772
County: Cuyahoga

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

Dear Permit Holder:

A draft of the OAC Chapter 3745-77 Title V permit for the referenced facility has been issued. The purpose of this draft is to solicit public comments. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and 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.*** The permit can also be commented on and accessed electronically at: ***https://ohioepa.commentinput.com***. Search by entering the permit # (P0140772) in the "Search Projects" search box and selecting “Review Document” or “Draft Permit.” Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Written (paper) comments must be sent to the following:

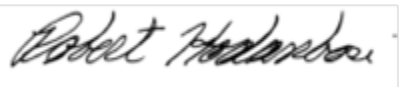
Andrea Moore
Permit Review/Development Section
Ohio EPA, DAPC
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, Ohio 43216-1049

and

Cleveland Division of Air Quality
2nd Floor
75 Erieview Plaza
Cleveland, OH 44114

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 Cleveland Division of Air Quality at (216)664-2297.

Sincerely,



Robert Hodanbosi
Chief, Division of Air Pollution Control

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

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***

Draft Title V Permit Renewal

The Medical Center Company
2250 Circle Drive
Cleveland, OH 44106-2664

ID#:	P0140772
Date of Action:	11/24/2026
Permit Desc:	Title V renewal for four natural gas/No.2 oil-fired boilers (B014, B016, B022, and B023), five cooling towers (P001 - P004, and P009) controlled by a drift eliminator, and two natural gas fired boilers (B009 and B010). All of the boilers are equipped with low-NOx burners. The facility is a steam heat and hot/chilled water provider.

The permit can be accessed electronically and comments may be submitted at: https://ohioepa.commentinput.com - Search by entering the permit P0140772 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:	1318003059
Facility Name:	The Medical Center Company
Facility Description:	Steam heat and hot/chilled water provider.
Facility Address:	2250 Circle Drive Cleveland, OH 44106-2664
Permit #:	P0140772

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 X No	Comments: **None.**

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.: **N/A**	Affected EUs: **N/A**

Discussion of changes from the previous Title V: **None.**

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.: **None.**	Affected EUs: **None.**

Minor Modification Description: **None.**

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.: **N/A**	Affected EUs: **N/A**

Significant Modification Description: **None.**		
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.: **N/A**	Affected EUs: **N/A**	
Reopening for Cause for Description: **None.**		
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: **CAM does not apply to gas boilers B009, B010, B014, B016, B022 and B023 because Low NO_x burners are not designated as control devices per the definition of a "Control Device" stated in 40CFR Part 64.**		
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. **None.**	Public Notice Date: PTI No. **N/A**	PTI Issuance Date: **N/A**
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: **None.**	

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. **N/A**	Discussion: **None.**
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: **N/A**	List the Order/Injunctive Relief number from the associated enforcement document and provide a description: **None.**

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
1.		Y	Identifying terms that are State-only enforceable.
2.	77-07(A)(13)		Identifying insignificant emissions units that are State and Federally enforceable.
3.		40 CFR Part 60 Subpart Db	Statement that facility shall comply with emissions units that are subject to 40 CFR Part 60 Subpart Db.

4.		40 CFR Part 63 Subpart JJJJJJ	Statement that facility shall comply with emissions units that are subject to 40 CFR Part 63 Subpart JJJJJJ
5.		P0118533	Term for access to the NSPS and MACT requirements.
6.		P0118533 and P0120687	Shutdown of coal boilers B003 and B004 on January 9th, 2017
7.		40 CFR Part 60 Subpart IIII	Statement that facility shall comply with emissions units that are subject to 40 CFR Part 60
8.		40 CFR Part 63 Subpart ZZZZ	Statement that facility shall comply with emissions units that are subject to 40 CFR Part 63

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

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.1: B014 Gas Boiler #6 – Natural gas/No. 2 oil-fired boiler rated at 120.4 mmBtu/hr											
B014	1.61 tons of NO_x per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – PEMs data and approved emission factors used to determine compliance. Use of a predictive emissions monitor is an adequate measure of compliance.
B014	1.64 tons of CO per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B014	1.19 tons of SO_2 per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of "low sulfur" fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Fuel oil analysis is an adequate measure of compliance.
B014	19.28 tons of NO_x per rolling 12-month period.	31-05(D)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B014	19.66 tons of CO per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B014	2.72 tons of $PM_{10}/PM_{2.5}$ per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors are sufficient to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B014	2.11 tons of VOC per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B014	0.020 lb PE/mmbtu	17-10(B)(1)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 5 and 19 test if warranted. Burn rate and fuel type are adequate measures of compliance.
B014	1.6 lbs of SO_2/mmBtu	18-06(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of “low sulfur” fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and fuel oil analysis are sufficient to determine compliance. Method 6 test if warranted. Fuel oil analysis is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B014	0.08 lb NO_x/mmbtu for natural gas	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B014	0.10 lb NO_x/mmbtu for No. 2 oil	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B014	0.20 lb NO_x/mmbtu as a rolling 30 day average	40 CFR Part 60 Subpart Db	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B014	20% opacity as six minute average, except for one 6-minute period per hour of not more than 27% opacity	40 CFR Part 60 Subpart Db	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. ET – Method 9 shall be used if a compliance determination is warranted. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.2: B016 Gas Boiler #5 – Natural gas/No. 2 oil-fired boiler rated at 122.9 mmBtu/hr											
B016	1.64 tons of NO_x per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data and approved emission factors used to determine compliance. Use of a predictive emissions monitor is an adequate measure of compliance.
B016	1.675 tons of CO per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B016	1.21 tons of SO_2 per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of "low sulfur" fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Fuel oil analysis is an adequate measure of compliance.
B016	19.68 tons of NO_x per rolling 12-month period.	31-05(D)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B016	20.10 tons of CO per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B016	2.76 tons of $PM_{10}/PM_{2.5}$ per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors are sufficient to determine compliance. Method 5 and 19 test if warranted. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B016	2.16 tons of VOC per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B016	0.020 lb PE/mmbtu	17-10(B)(1)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 5 and 19 test if warranted. Burn rate and fuel type are adequate measures of compliance.
B016	1.6 lbs of SO_2/mmBtu	18-06(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of “low sulfur” fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and fuel oil analysis are sufficient to determine compliance. Method 6 test if warranted. Fuel oil analysis is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B016	0.08 lb NO_x/mmbtu for natural gas	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B016	0.10 lb NO_x/mmbtu for No. 2 oil	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B016	0.20 lb NO_x/mmbtu as a rolling 30 day average	40 CFR Part 60 Subpart Db	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B016	20% opacity as six minute average, except for one 6-minute period per hour of not more than 27% opacity	40 CFR Part 60 Subpart Db	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. ET – Method 9 shall be used if a compliance determination is warranted. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.3: B022 Gas Boiler #7 – Natural gas/No. 2 oil-fired boiler rated at 125.0 mmBtu/hr											
B022	1.67 tons of NO_x per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data and approved emission factors used to determine compliance. Use of a predictive emissions monitor is an adequate measure of compliance.
B022	1.71 tons of CO per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0138879)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B022	1.22 tons of SO_2 per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of "low sulfur" fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Fuel oil analysis is an adequate measure of compliance.
B022	20.04 tons of NO_x per rolling 12-month period.	31-05(D)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B022	20.46 tons of CO per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B022	2.85 tons of $PM_{10}/PM_{2.5}$ per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors are sufficient to determine compliance. Method 5 and 19 test if warranted. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B022	2.20 tons of VOC per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B022	0.020 lb PE/mmbtu	17-10(B)(1)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 5 and 19 test if warranted. Burn rate and fuel type are adequate measures of compliance.
B022	1.6 lbs of SO_2/mmBtu	18-06(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of “low sulfur” fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and fuel oil analysis are sufficient to determine compliance. Method 6 test if warranted. Fuel oil analysis is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B022	0.08 lb NO_x/mmbtu for natural gas	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B022	0.10 lb NO_x/mmbtu for No. 2 oil	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B022	0.20 lb NO_x/mmbtu as a rolling 30 day average	40 CFR Part 60 Subpart Db	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B022	20% opacity as six minute average, except for one 6-minute period per hour of not more than 27% opacity	40 CFR Part 60 Subpart Db	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. ET – Method 9 shall be used if a compliance determination is warranted. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.4: B023 Gas Boiler #8 – Natural gas/No. 2 oil-fired boiler rated at 119.8 mmBtu/hr											
B023	1.60 tons of NO_x per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0120687)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – PEMs data and approved emission factors used to determine compliance. Use of a predictive emissions monitor is an adequate measure of compliance.
B023	1.63 tons of CO per month averaged over a 12-month rolling period	31-05(A)(3) (PTI #P0120687)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B023	1.18 tons of SO_2 per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of "low sulfur" fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Fuel oil analysis is an adequate measure of compliance.
B023	19.19 tons of NO_x per rolling 12-month period.	31-05(D)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B023	19.57 tons of CO per rolling 12-month period.	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B023	2.72 tons of $PM_{10}/PM_{2.5}$ per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors are sufficient to determine compliance. Method 5 and 19 test if warranted. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.
B023	2.11 tons of VOC per rolling 12-month period	31-05(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Recordkeeping and approved emission factors used to determine compliance. Annual limit at maximum potential to emit. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B023	0.020 lb PE/mmbtu	17-10(B)(1)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 5 and 19 test if warranted. Burn rate and fuel type are adequate measures of compliance.
B023	1.6 lbs of SO_2/mmBtu	18-06(D)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. Use of “low sulfur” fuel oil. R – Records of the type of fuel used. Records of the fuel oil analysis. Rp - Reports of fuel type deviations due within 30 days of deviation. Reports of fuel sulfur content and emission rate deviations. ET – Recordkeeping and fuel oil analysis are sufficient to determine compliance. Method 6 test if warranted. Fuel oil analysis is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B023	0.08 lb NO_x/mmbtu for natural gas	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B023	0.10 lb NO_x/mmbtu for No. 2 oil	110-03(C)	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B023	0.20 lb NO_x/mmbtu as a rolling 30 day average	40 CFR Part 60 Subpart Db	N	Y	Y	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. M&R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Records of NO_x PEMs data. Record No. 2 fuel oil usage. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. Quarterly report requirements for the NO_x PEMs. ET – NO_x PEMs data used to determine compliance. Method 7, 7A, 7C, 7D or 7E test if warranted. Use of a predictive emissions monitor is an adequate measure of compliance.
B023	20% opacity as six minute average, except for one 6-minute period per hour of not more than 27% opacity	40 CFR Part 60 Subpart Db	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas and/or No. 2 fuel oil. R – Records of the type of fuel used. Keep records according to 40 CFR Part 60 Subpart Db. Rp - Reports of fuel type deviations due within 30 days of deviation. Submit reports according to 40 CFR Part 60 Subpart Db. ET – Method 9 shall be used if a compliance determination is warranted. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
Section C.5: P004 Cooling Tower – CT1S-CT5S											
P004	2.30 lbs/hr of PE	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET- Approved AP-42 emission factors used to determine compliance. Emission limit at maximum potential to emit. Daily visible emission checks and use of emission factors are an adequate measure of compliance.
P004	10.1 tons per year of PE	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET – Annual limit at maximum potential to emit. Compliance based on maximum potential to emit is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P004	5% opacity, as a 6-minute average	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET-Method 9 shall be used if a compliance determination is warranted. Daily visible emission checks are an adequate measure of compliance.
Section C.6: P009 Cooling Tower – CT6S-CT12S											
P009	2.04 lbs/hr of PE	31-05(E) (PTI #P0104836)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET- Approved AP-42 emission factors used to determine compliance. Emission limit at maximum potential to emit. Daily visible emission checks and use of emission factors are an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P009	8.94 tons per year of PE	31-05(E) (PTI #P0104836)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET – Annual limit at maximum potential to emit. Compliance based on maximum potential to emit is an adequate measure of compliance.
P009	1.14 lbs/hr of PM_{10}	31-05(E) (PTI #P0104836)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET- Approved AP-42 emission factors used to determine compliance. Emission limit at maximum potential to emit. Daily visible emission checks and use of emission factors are an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P009	4.99 tons per year of PM_{10}	31-05(E) (PTI #P0104836)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET – Annual limit at maximum potential to emit. Compliance based on maximum potential to emit is an adequate measure of compliance.
P009	5% opacity, as a 6-minute average	31-05(E) (PTI #P0104836)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET-Method 9 shall be used if a compliance determination is warranted. Daily visible emission checks are an adequate measure of compliance.
Section C.7: Emissions Unit Group 13,020 gpm Cooling Towers : P001, P002, P003											

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P001, P002, P003	1.32 lbs/hr of PE	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET- Approved AP-42 emission factors used to determine compliance. Emission limit at maximum potential to emit. Daily visible emission checks and use of emission factors are an adequate measure of compliance.
P001, P002, P003	5.78 tons per year of PE	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET – Annual limit at maximum potential to emit. Compliance based on maximum potential to emit is an adequate measure of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
P001, P002, P003	5% opacity, as a 6-minute average	31-05(A)(3) (PTI #13-04299)	N	Y	Y	Y	Y	N	N	N	OR – use of a drift eliminator. M&R – Document drift eliminator downtimes and conduct daily visible emission checks. Rp –Report drift eliminator downtimes within 30 days and semi-annual reporting for visible emissions. ET-Method 9 shall be used if a compliance determination is warranted. Daily visible emission checks are an adequate measure of compliance.
Section C.8: Emissions Unit Group – 64.5 mmBtu/hr natural gas boilers: B009, B010											
B009 B010	0.0006 lb of SO_2 emissions per mmBtu	31-05(A)(3) (PTI #P0105968)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 6 test if warranted. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B009 B010	0.17 TPY of SO_2 emissions	31-05(A)(3) (PTI #P0105968)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.
B009 B010	5.65 TPY of particulate emissions	31-05(A)(3) (PTI #P0105968)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.
B009 B010	0.0375 lb NO_x/mmBtu	31-05(A)(3) (PTI #P0105968)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Method 7, 7A, 7C, 7D or 7E test if required. Burn rate and fuel type are adequate measures of compliance.

Emissions Unit Table

EU(s)	Limitation	Basis	ND	OR	M	R	Rp	ET	ENF	Misc	Comments
B009 B010	10.59 TPY of NO_x emissions	31-05(A)(3) (PTI #P0105968)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Burn rate and fuel type are adequate measures of compliance.
B009 B010	20% opacity as a six minute average	17-07(A)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Method 9 shall be used if a compliance determination is warranted. Burn rate and fuel type are adequate measures of compliance.
B009 B010	0.020 lb PE/mmbtu	17-10(B) (1)	N	Y	N	Y	Y	N	N	N	OR - Use of only natural gas. R – Records of the type of fuel used. Rp - Reports of fuel type deviations due within 30 days of deviation. ET – Approved emission factors used to determine compliance. Method 5 test if warranted. Burn rate and fuel type are adequate measures of compliance.

Ohio Environmental Protection Agency

DRAFT

Division of Air Pollution Control
Title V Permit

for

The Medical Center Company

Facility ID:	1318003059
Permit Number:	P0140772
Permit Type:	Renewal
Issued:	11/24/2026
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance

Environmental Protection Agency

Division of Air Pollution Control
Title V Permit
for
The Medical Center Company

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Authorization

Facility ID:	1318003059
Facility Description:	Steam heat and hot/chilled water provider.
Application Number(s):	A0081902
Permit Number:	P0140772
Permit Description:	Title V renewal for four natural gas/No.2 oil-fired boilers (B014, B016, B022, and B023), five cooling towers (P001 - P004, and P009) controlled by a drift eliminator, and two natural gas fired boilers (B009 and B010). All of the boilers are equipped with low-NOx burners. The facility is a steam heat and hot/chilled water provider.
Permit Type:	Renewal
Issue Date:	
Effective Date:	To be entered upon final issuance
Expiration Date:	To be entered upon final issuance
Superseded Permit Number:	P0138878

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

The Medical Center Company
2250 Circle Drive
Cleveland, OH 44106-2664

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

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

The above-named entity is hereby granted a Title V permit pursuant to Chapter 3745-77 of the Ohio Administrative Code. This permit and the authorization to operate the air contaminant sources (emissions units) at this facility shall expire at midnight on the expiration date shown above. You will be sent a notice approximately 18 months prior to the expiration date regarding the renewal of this permit. If you do not receive a notice, please contact the Cleveland Division of Air Quality. If a renewal permit is not issued prior to the expiration date, the permittee may continue to operate pursuant to OAC rule 3745-77-08(E) and in accordance with the terms of this permit beyond the expiration date, if a timely renewal application is submitted. A renewal application will be considered timely if it is submitted no earlier than 18 months 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/m3 = 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/m3 = 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_2S = hydrogen sulfide	Ohio EPA = Ohio Environmental Protection Agency	TPY = ton(s) per year
H_2SO_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/m3 = micrograms per cubic meter

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 Cleveland Division of Air Quality. 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality) 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality.

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 Cleveland Division of Air Quality. 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality 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 Cleveland Division of Air Quality, 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 following insignificant emissions units are located at this facility:

EU ID	Operations, Property and/or Equipment Description
B017	400KW emergency generator #1 (PBR 03585)
B018	400KW emergency generator #2 (PBR03586)
B019	800KW emergency generator #3 (PBR16222)
B020	1,825KW Satellite Plant generator #4 (PBR16222)
B021	1,825KW Satellite Plant generator #5 (PBR16222)
B024	800KW emergency generator #6 (PBR15286)

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

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

3. The permittee shall comply with the applicable provisions of the New Source Performance Standards (NSPS) for Industrial-Commercial-Institutional Steam Generating Units, as promulgated by the United States Environmental Protection Agency under 40 CFR Part 60, Subpart Db. This NSPS rule applies to emissions units B014, B016, B022 and B023.

   [Authority for term: 40 CFR Part 60 Subpart Db]

4. The permittee shall comply with the applicable provisions of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, as promulgated by the United States Environmental Protection Agency under 40 CFR Part 63, Subpart JJJJJJ. The final rules found in 40 CFR Part 63, Subpart JJJJJJ establish national emission standards for hazardous air pollutants (NESHAP), operational limits, work practice standards, and compliance requirements for industrial, commercial, and institutional boilers located at an area source of hazardous air pollutants (HAP). This NESHAP rule applies to emissions units B014, B016, B022 and B023.

   [Authority for term: 40 CFR Part 63 Subpart JJJJJJ]

5. The complete NSPS and MACT requirements, including the NSPS and MACT General Provisions, may be accessed via the internet from the Electronic Code of Federal Regulation (e-CFR) website http://ecfr.gpoaccess.gov or by contacting the Cleveland Division of Air Quality.

   [Authority for term: OAC rule 3745-77-07 and PTI #P0131893]

6. The coal boilers (B003 and B004) were permanently removed from service on January 9th, 2017.

   [Authority for term: OAC rule 3745-77-07(A)(13) and PTI #P0131893 and PTI #P0131892]

7. The permittee shall comply with the applicable provisions of the New Source Performance Standards (NSPS) for New Stationary Compression Ignition Internal Combustion Engines, as promulgated by the United States Environmental Protection Agency under 40 CFR Part 60, Subpart IIII. This NSPS rule applies to emissions unit B024.

   Emissions unit B024 was manufactured in 2016 and installed in 2016.

   [Authority for term: 40 CFR Part 60 Subpart IIII]

8. The permittee shall comply with the applicable provisions of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Stationary Internal Combustion Engines as promulgated by the United States Environmental Protection Agency under 40 CFR Part 63, Subpart ZZZZ. The final rules found in 40 CFR Part 63, Subpart ZZZZ establish national emission standards for hazardous air pollutants (NESHAP), operational limits, work practice standards, and compliance requirements for Stationary Internal Combustion Engines located at an area source of hazardous air pollutants (HAP).

   The permittee shall comply with the requirements and limits of this NESHAP by the compliance date listed in 40 CFR Part 63, Subpart ZZZZ, or upon startup, whichever is later. This NESHAP rule applies to emissions units B017, B018, B019, B020 and B021.

   Emissions unit B017 was manufactured in 1988 and installed in 1988.

   Emissions unit B018 was manufactured in 1988 and installed in 1988.

   Emissions unit B019 was manufactured in 2004 and installed in 2004.

   Emissions unit B020 was manufactured in 2001 and installed in 2007.

   Emissions unit B021 was manufactured in 2001 and installed in 2007.

   [Authority for term: 40 CFR Part 63 Subpart ZZZZ]

C. Emissions Unit Terms and Conditions

1. B014, Gas Boiler #6 - Natural gas/No. 2 oil-fired boiler rated at 120.4 mmBtu/hr

Operations, Property and/or Equipment Description:

100,000 lb/hr of steam output natural gas/No. 2 oil-fired boiler rated at 120.4 mmBtu/hr heat input equipped with Low NO_x Burners (LNB).

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) g)(1).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T) See g)(2) and g)(3) below.	Nitrogen oxide (NO_x) emissions shall not exceed 1.61 tons per month averaged over a 12-month rolling period. Carbon monoxide (CO) emissions shall not exceed 1.64 tons per month averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total particulate, VOC, and SO_2 emissions from this air contaminant source since the potential to emit is less than 10 tons per year.
c.	OAC rule 3745-31-05(D) Synthetic Minor and Netting to avoid PSD and NNSR.	Sulfur dioxide (SO_2) emissions shall not exceed 1.19 tons per rolling 12-month period. Nitrogen oxide (NO_x) emissions shall not exceed 19.28 tons per rolling 12-month period. Carbon monoxide (CO) emissions shall not exceed 19.66 tons per rolling 12-month period.

		The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.72 tons per rolling 12-month period. Volatile organic compounds (VOC) emissions shall not exceed 2.11 tons per rolling 12-month period.
d.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation of this rule is less stringent than the visible particulate emissions limitation established in 40 CFR Part 60, Subpart Db.
e.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu of actual heat input.
f.	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu of actual heat input.
g.	OAC rule 3745-110-03(C)	***Natural gas:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu. ***No. 2 oil:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu. Based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.
h.	40 CFR Part 60 Subpart Db	Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27%.
i.	40 CFR Part 63, Subpart JJJJJJ	See b)(2)c. below.

(2) Additional Terms and Conditions

a. Each continuous NO_x predictive emissions monitoring system (PEMS) shall be certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16 (PS-16) for each permitted fuel. At least 45 days before commencing certification testing of the NO_x predictive emissions monitoring system(s), the permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of NO_x predictive emissions continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x predictive emissions monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct daily sensor evaluations; to conduct quarterly relative accuracy audits; and to conduct yearly relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60, Appendix B, Performance Specification 16.

b. The predictive emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes all sensors, algorithms, and data recording/processing hardware and software. Any change to algorithms or model data used to predict NOx emissions shall require new certification testing of the NOx predictive emissions monitoring systems per PS-16 including a three load (27 run RATA). Use of bias adjustment factors, and like kind replacements of the PEMS hardware or sensors used in the model do not require recertification as long as the changes do not significantly (changes of more than 0.5 % absolute O2, or 5% NOx) impact the predicted emissions.

c. Provided that this emissions unit meets the definition of a “gas fired boiler”, as defined in 40 CFR Part 63.11237, this emissions unit is not subject to the requirements of this rule if fuel oil is only burned during periods of gas curtailment, gas supply emergencies, or periodic testing. Periodic testing of the fuel oil shall not exceed 48 hours during any calendar year.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(2) The quality of the oil burned in this emissions unit shall meet a sulfur content that is less than or equal to 0.3% by weight which is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit. The fuel oil shall comply with the definition of “very low sulfur oil” contained in 40 CFR Part 60 Subpart Db.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(3) The permittee shall operate and maintain predictive monitoring equipment to continuously predict and record the NO_x emissions from this emissions unit when combusting natural gas and/or number 2 distillate fuel oil.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below:

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-04(F) and PTI #P0138879]

(3) The Ohio EPA, Central Office shall approve the initial certification testing protocol and shall review all initial certification testing data. Upon a satisfactory review of the initial certification testing data, Ohio EPA shall acknowledge that the NO_x predictive emissions monitoring system meets the requirements of Performance Specification 16 by sending a Certification Letter. Once received, the letter/document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI #P0138879 and 40 CFR Part 60]

(4) The permittee shall operate and maintain equipment to continuously predict and record NO_x emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous NO_x monitoring system including, but not limited to:

a. predicted emissions of NOx in parts per million on an instantaneous (one-minute) basis;

b. predicted emissions of a diluents (O2 or CO2) in percent on an instantaneous (one-minute) basis;

c. predicted flow rates of the emissions stream, in dry standard cubic feet per minute (this is required only for NOx predictive emissions monitoring systems that are being used to demonstrate compliance with a NOx pound-per-hour limit.);

d. emissions of NOx in all units of the applicable standard(s) in the appropriate averaging period;

e. the monthly average emissions of NOx in lb/mmBtu for each month;

f. results of quarterly relative accuracy audits;

g. results of daily sensor checks and a list of adjustments or repairs/replacements that are made;

h. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

i. hours of operation of the emissions unit and the NOx predictive emissions monitoring system;

j. the date, time, and hours of operation of the emissions unit without the NOx predictive emissions monitoring system;

k. the date, time, and hours of operation of the emissions unit during any malfunction of the NOx predictive emissions monitoring system; and

l. the reason (if known) and the corrective actions taken (if any) for each such event in j. and k. above.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI #P0138879 and 40 CFR Part 60]

(5) The permittee shall maintain monthly records of the operating hours while burning No. 2 fuel oil.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(6) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.48b (g)(2)	Monitoring requirements for nitrogen oxides
60.49b (d)(1)	Maintain records of fuels
60.49b (f)	Maintain records of opacity
60.49b (g)(1) – (g)(7)	Maintain records of NO_x emissions
60.49b (o)	Maintain records for 2 years
60.49b (r)	Maintain fuel records or develop fuel analysis plan

[Authority for term: OAC rule 3745-77-07(C)(1) PTI #P0138879 and 40 CFR Part 60]

(7) The permittee shall maintain records of the following information for each steam generating unit operating day:

a. calendar date;

b. NOx concentration expressed as ppm and O_2 or CO_2 concentration expressed as percent on an 1-minute basis;

c. the average hourly NO_x emission rates (expressed as NO_2) (lb/mmBtu heat input) computed from the hourly averages and recorded at the end of the operating day; Ohio EPA requires PEMS readings to be taken every minute, and the 1-minute readings are used for each 15-minute and/or 1-hour average, used to calculate the daily average emissions;

d. the 30-day average NO_x emission rates (lb/mmBtu heat input) for the preceding 30 steam generating unit operating days, calculated at the end of each steam generating unit operating day from the hourly average NO_x emission rates measured by the PEMS;

e. identification of each steam generating unit operating day when the calculated 30- day average NO_x emission rates exceed the NO_x emissions standards under 40 CFR 60.44b and under ORC 3704.03(T)/OAC rule 3745-31-05(A)(3), with the reasons for the excess emissions and a description of the corrective actions taken;

f. a record of any downtime of the PEMS and/or any period of time when data was not obtained from the PEMS; the percent of operating hours for which NO_x and diluent (O_2 or CO_2) data was obtained during the operating day by the PEMS and/or an approved method; the justification for not obtaining sufficient data and description of the corrective action(s) taken;

g. identification of the steam generating unit operating day when emissions data was excluded from the calculation of average emissions rates, the reason for excluding the data, and a description of correction action(s) taken;

h. identification of the "F" factor(s) used for calculations, the method(s) of determination, and type of fuel combusted;

i. identification of the date and time when the NO_x or O_2 concentrations, or the NO_x lb/mmBtu data, could not be predicted because the PEMS were operating outside the envelopes of operation established during the testing of the emissions unit during the PEMS development;

j. a description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16 (or allowance made by LME determinations as outlined above);

k. the results of all Performance Specification 16 required testing;

l. each day maintenance was performed on the NO_x control system, a description of the maintenance performed, and a record of any exceedance due to the maintenance;

m. a record of times when hourly averages were obtained based on manual sampling methods and the Method(s) used; and

n. the annual capacity factor of each fuel fired in each steam generating unit that is restricted by an annual capacity factor to meet a compliance option.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 and PTI #P0138879]

(8) The permittee shall maintain monthly records of the total combined heat input per month, using the natural gas and oil and mmBtu heat content data for each fuel, for this emissions unit. The heat input (HI) data shall be recorded by the PEMS and be used in the determination of the total combined heat input per month.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality (Cleveland DAQ) that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) The permittee shall submit deviation (excursion) reports to the Cleveland DAQ that identify the following:

a. any exceedance of the allowable sulfur dioxide emission limitation, pounds sulfur dioxide/MMBtu actual heat input; and

b. any deviation from the maximum % sulfur content, by weight, limitation on the No. 2 fuel oil.

The deviation (excursion) reports shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its NO_x predictive emissions monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of NO_x predicted emissions in excess of any applicable limit specified in this permit, boiler operation with a PEMS parameters outside the envelopes* developed during the model building testing, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

* Note: Periods when the emissions unit is operating outside the envelopes established during the model building testing are viewed as “emission exceedances” by Ohio EPA for purposes of determining compliance with the emission limitations.

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer, model number, and serial number of the NO_x predictive emissions monitoring systems;

iii. a description of any change in the equipment that comprises the predictive emission monitoring system, including any change to the hardware, and/or changes to the software or model data sets in the predictive algorithms;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total NO_x emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the NO_x predictive emissions monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly relative accuracy audits;

ix. unless previously submitted, the results of any relative accuracy test audit showing the NO_x predictive emissions monitor out-of-control and the compliant results following any corrective actions;

x. the date, time, and duration of any/each malfunction** of the NO_x predictive monitoring system and the emissions unit;

xi. the date, time, and duration of any downtime** of the NO_x predictive emissions monitoring system while the emissions unit was in operation; and

xii. the reason (if known) and the corrective actions taken (if any) for each event in x. and xi. above.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit.

[Authority for term: OAC rule 3745-77-07(C)(1), PTI #P0138879 and 40 CFR Part 60]

(4) The permittee shall submit reports (electronic format) within 30 days following the end of each calendar quarter to the Cleveland Division of Air Quality documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective action(s) taken (if any), of all 30-day average NO_x values in excess of the applicable NO_x emission rate (pound per mmBtu).

The reports shall also identify any predictive NOx monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and/or control equipment malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(5) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.49b(c)	Submit monitoring of operating conditions and recordkeeping plan
60.49b(h)	Submit excess emission reports for NO_x
60.49b(v)	Electronic report submittal
60.49b(w)	Reports required for each 6-month period

[Authority for term: OAC rule 3745-77-07(C)(1), PTI #P0138879 and 40 CFR Part 60]

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

f) Testing Requirements

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

a. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 1.61 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.116 mmcf/hr) by the boiler manufacturer emission factor for NO_x emissions (0.036 lb of NO_x /mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (860 gallons/hr) by the boiler manufacturer emission factor for NOx emissions (0.109 lb of NOx /mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

Compliance with this ton per month average limitation shall be based on the record keeping requirements specified in d)(4)e and d)(8) of this permit. The rolling ton per month emissions shall be the sum of the monthly emission rate, determined from the average lb NO_x/mmBtu in d)(4)e multiplied by the total monthly heat input [mmBtu/month] recorded in d(8) and divide by 2000 lbs/ton, with the ton per month emissions from the preceding 11 months and divided by 12 months for the monthly average.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

b. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 1.64 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.116 mmcf/hr) by the boiler manufacturer emission factor for CO emissions (0.037 lb of CO/mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (860 gallons/hr) by the boiler manufacturer emission factor for CO emissions (0.059 lb of CO/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

c. Emission Limitation:

Sulfur dioxide (SO_2) emissions shall not exceed 1.19 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(2) and d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.116 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for SO_2 emissions (0.6 lb of SO_2/mmcf), by the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (860 gallons/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.3-1, Table 1.3-1 (05/10) emission factor for SO_2 emissions (142S lbs of SO_2/1,000 gallons where S = the % sulfur in the No. 2 fuel (0.3%)), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

d. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 19.28 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(4) of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

e. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 19.66 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified in f)(1)b. of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

f. Emission Limitation:

The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.72 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.116 mmcf/hr) by the boiler manufacturer emission factor for particulate emissions (0.005 lb of PE/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (860 gallons/hr) by the boiler manufacturer emission factor for particulate emissions (0.03 lb of PE/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

g. Emission Limitation:

Volatile organic compound (VOC) emissions shall not exceed 2.11 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.116 mmcf/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (860 gallons/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

h. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

When burning natural gas, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.116 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for particulates (1.9 lbs/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

When burning No. 2 fuel oil, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum fuel oil capacity of the emissions unit (860 gallons/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs of particulates/1,000 gallons - Section 1.3-12, Table 1.3.1 (05/10)), and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, 5 and 19.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-10 (B)(1) and PTI #P0138879]

i. Emission Limitation:

Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received, or each daily composite sample of the oil burned during each calendar day, meets the limitation in accordance with d)(2).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-06(D) and PTI #P0138879]

j. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed the following limitations:

Natural gas:

Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

No. 2 oil:

Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

Applicable Compliance Method:

Ongoing compliance with the NO_x emissions limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(C) and PTI #P0138879]

k. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average.

Applicable Compliance Method:

Ongoing compliance with the NO_x emissions limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) and d)(6) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

l. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.48b(a). The permittee shall also comply with the requirements of f)(2) below.

This compliance method shall be used whenever a compliance demonstration is warranted.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(2) The permittee shall comply with the applicable compliance requirements and testing requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.46b(c)	Compliance and performance test methods and procedures for nitrogen oxides
60.46b(e)	Performance test for NO_x (using PEMS instead of CEMS).

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

g) Miscellaneous Requirements

(1) Modeling to demonstrate compliance with, the Toxic Air Contaminant Statute, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified

permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) Emissions unit B014 was installed in 1990.

(3) The following PTI's were previously issued for emissions unit B014:

a. PTI #13-2233 issued on June 7, 1991;

b. PTI Admin Mod #13-2233 issued on March 9, 1995;

c. PTI Admin Mod #13-2233 issued on November 1, 2005;

d. Chapter 31 PTI #P0118533 issued on October 5, 2015;

e. PTI Admin Mod #P0131893 issued on June 22, 2022; and

f. PTI Admin Mod #P0138879 issued on November 5, 2025

(4) In the event of a gas curtailment or gas supply interruption, as identified in the definition for "gas-fired boiler" in 40 CFR Part 63.11237, the amount of emissions generated while burning fuel oil are not included for purposes of determining compliance with the ton/month and rolling 12-month emission limitations. However, the burning of the fuel oil would need to comply with the NO_x lb/mmBtu emission limit established in accordance with OAC rule 3745-110-03(C).

2. B016, Gas Boiler #5- Natural gas/No. 2 oil-fired boiler rated at 122.9 mmBtu/hr

Operations, Property and/or Equipment Description:

100,000 lb/hr of steam output natural gas/No. 2 oil-fired boiler rated at 122.9 mmBtu/hr heat input equipped with Low NO_x Burners (LNB) and an oxygen (O_2) trim system.

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) g)(1).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T) See g)(2) and g)(3) below.	Nitrogen oxide (NO_x) emissions shall not exceed 1.64 tons per month averaged over a 12-month rolling period. Carbon monoxide (CO) emissions shall not exceed 1.675 tons per month averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total particulate, VOC, and SO_2 emissions from this air contaminant source since the potential to emit is less than 10 tons per year.
c.	OAC rule 3745-31-05(D) Synthetic Minor and Netting to avoid PSD and NNSR.	Sulfur dioxide (SO_2) emissions shall not exceed 1.21 tons per rolling 12-month period. Nitrogen oxide (NO_x) emissions shall not exceed 19.68 tons per rolling 12-month period. Carbon monoxide (CO) emissions shall not exceed 20.10 tons per rolling 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.76 tons per rolling 12-month period. Volatile organic compounds (VOC) emissions shall not exceed 2.16 tons per rolling 12-month period.
d.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation of this rule is less stringent than the visible particulate emissions limitation established in 40 CFR Part 60, Subpart Db.
e.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.
f.	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.
g.	OAC rule 3745-110-03(C)	***Natural gas:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu. ***No. 2 oil:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu. Based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.
h.	40 CFR Part 60 Subpart Db	Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27%.
i.	40 CFR Part 63, Subpart JJJJJJ	See b)(2)c. below.

(2) Additional Terms and Conditions

a. Each continuous NO_x predictive emissions monitoring system shall be certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16 for each permitted fuel. At least 45 days before commencing certification testing of the NO_x predictive emissions monitoring system(s), the permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of NO_x predictive emissions continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x predictive emissions monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct daily sensor evaluations; to conduct quarterly relative accuracy audits; and to conduct yearly relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60, Appendix B, Performance Specification 16.

b. The predictive emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes all sensors, algorithms, and data recording/processing hardware and software. Any change to algorithms or model data used to predict NOx emissions shall require new certification testing of the NOx predictive emissions monitoring systems per PS-16 including a three load (27 run RATA). Use of bias adjustment factors, and like kind replacements of the PEMS hardware or sensors used in the model do not require recertification as long as the changes do not significantly (changes of more than 0.5 % absolute O2, or 5% NOx) impact the predicted emissions.

c. Provided that this emissions unit meets the definition of a “gas fired boiler”, as defined in 40 CFR Part 63.11237, this emissions unit is not subject to the requirements of this rule if fuel oil is only burned during periods of gas curtailment, gas supply emergencies, or periodic testing. Periodic testing of the fuel oil shall not exceed 48 hours during any calendar year.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(2) The quality of the oil burned in this emissions unit shall meet a sulfur content that is less than or equal to 0.3% by weight which is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit. The fuel oil shall comply with the definition of “very low sulfur oil” contained in 40 CFR Part 60 Subpart Db.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(3) The permittee shall operate and maintain predictive monitoring equipment to continuously predict and record the NO_x emissions from this emissions unit when combusting natural gas and/or number 2 distillate fuel oil.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below:

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-04(F) and PTI #P0138879]

(3) The Ohio EPA, Central Office shall approve the initial certification testing protocol and shall review all initial certification testing data. Upon a satisfactory review of the initial certification testing data, Ohio EPA shall acknowledge that the NO_x predictive emissions monitoring system meets the requirements of Performance Specification 16 by sending a Certification Letter. Once received, the letter/document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(4) The permittee shall operate and maintain equipment to continuously predict and record NO_x emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous NO_x monitoring system including, but not limited to:

a. predicted emissions of NOx in parts per million on an instantaneous (one-minute) basis;

b. predicted emissions of a diluents (O2 or CO2) in percent on an instantaneous (one-minute) basis;

c. predicted flow rates of the emissions stream, in dry standard cubic feet per minute (this is required only for NOx predictive emissions monitoring systems that are being used to demonstrate compliance with a NOx pound-per-hour limit.);

d. emissions of NO_x in all units of the applicable standard(s) in the appropriate averaging period;

e. the monthly average emissions of NOx in lb/mmBtu for each month;

f. results of quarterly relative accuracy audits;

g. results of daily sensor checks and a list of adjustments or repairs/replacements that are made;

h. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

i. hours of operation of the emissions unit and the NOx predictive emissions monitoring system;

j. the date, time, and hours of operation of the emissions unit without the NOx predictive emissions monitoring system;

k. the date, time, and hours of operation of the emissions unit during any malfunction of the NOx predictive emissions monitoring system; and

l. the reason (if known) and the corrective actions taken (if any) for each such event in j. and k. above.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(5) The permittee shall maintain monthly records of the operating hours while burning No. 2 fuel oil.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(6) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.48b (g)(2)	Monitoring requirements for nitrogen oxides
60.49b (d)(1)	Maintain records of fuels
60.49b (f)	Maintain records of opacity
60.49b (g)(1) – (g)(7)	Maintain records of NO_x emissions
60.49b (o)	Maintain records for 2 years
60.49b (r)	Maintain fuel records or develop fuel analysis plan

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(7) The permittee shall maintain records of the following information for each steam generating unit operating day:

a. calendar date;

b. NOx concentration expressed as ppm and O2 or CO2 concentration expressed as percent on an 1-minute basis;

c. the average hourly NOx emission rates (expressed as NO2) (lb/ mmBtu heat input) computed from the hourly averages and recorded at the end of the operating day; Ohio EPA requires PEMS readings to be taken every minute, and the 1-minute readings are used for each 15-minute and/or 1-hour average, used to calculate the daily average emissions;

d. the 30-day average NOx emission rates (lb/mmBtu heat input) for the preceding 30 steam generating unit operating days, calculated at the end of each steam generating unit operating day from the hourly average NOx emission rates measured by the PEMS;

e. identification of each steam generating unit operating day when the calculated 30- day average NOx emission rates exceed the NOx emissions standards under 40 CFR 60.44b and under ORC 3704.03(T)/OAC rule 3745-31-05(A)(3), with the reasons for the excess emissions and a description of the corrective actions taken;

f. a record of any downtime of the PEMS and/or any period of time when data was not obtained from the PEMS; the percent of operating hours for which NOx and diluent (O2 or CO2) data was obtained during the operating day by the PEMS and/or an approved method; the justification for not obtaining sufficient data and description of the corrective action(s) taken;

g. identification of the steam generating unit operating day when emissions data was excluded from the calculation of average emissions rates, the reason for excluding the data, and a description of correction action(s) taken;

h. identification of the "F" factor(s) used for calculations, the method(s) of determination, and type of fuel combusted;

i. identification of the date and time when the NO_x or O_2 concentrations, or the NO_x lb/mmBtu data, could not be predicted because the PEMS were operating outside the envelopes of operation established during the testing of the emissions unit during the PEMS development;

j. a description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16 (or allowance made by LME determinations as outlined above);

k. the results of all Performance Specification 16 required testing;

l. each day maintenance was performed on the NOx control system, a description of the maintenance performed, and a record of any exceedance due to the maintenance;

m. a record of times when hourly averages were obtained based on manual sampling methods and the Method(s) used; and

n. the annual capacity factor of each fuel fired in each steam generating unit that is restricted by an annual capacity factor to meet a compliance option.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 and PTI #P0138879]

(8) The permittee shall maintain monthly records of the total combined heat input per month, using the natural gas and oil usage and mmBtu heat content data for each fuel, for this emissions unit. The heat input (HI) data shall be recorded by the PEMS and be used in the determination of the total combined heat input per month.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality (Cleveland DAQ) that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) The permittee shall submit deviation (excursion) reports to the Cleveland DAQ that identify the following:

a. any exceedance of the allowable sulfur dioxide emission limitation, pounds sulfur dioxide/MMBtu actual heat input; and

b. any deviation from the maximum % sulfur content limitation, by weight, of the No. 2 fuel oil.

The deviation (excursion) reports shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its NO_x predictive emissions monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of NO_x predicted emissions in excess of any applicable limit specified in this permit, boiler operation with a PEMS parameters outside the envelopes* developed during the model building testing, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

* Note: Periods when the emissions unit is operating outside the envelopes established during the model building testing are viewed as “emission exceedances” by Ohio EPA for purposes of determining compliance with the emission limitations.

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer, model number, and serial number of the NO_x predictive emissions monitoring systems;

iii. a description of any change in the equipment that comprises the predictive emission monitoring system, including any change to the hardware, and/or changes to the software or model data sets in the predictive algorithms;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total NO_x emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the NO_x predictive emissions monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly relative accuracy audits;

ix. unless previously submitted, the results of any relative accuracy test audit showing the NO_x predictive emissions monitor out-of-control and the compliant results following any corrective actions;

x. the date, time, and duration of any/each malfunction** of the NO_x predictive monitoring system and the emissions unit;

xi. the date, time, and duration of any downtime** of the NO_x predictive emissions monitoring system while the emissions unit was in operation; and

xii. the reason (if known) and the corrective actions taken (if any) for each event in x. and xi. above.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(4) The permittee shall submit reports (electronic format) within 30 days following the end of each calendar quarter to the Cleveland Division of Air Quality documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective action(s) taken (if any), of all 30-day average NO_x values in excess of the applicable NO_x emission rate (pound per mmBtu).

The reports shall also identify any predictive NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and/or control equipment malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(5) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.49b(c)	Submit monitoring of operating conditions and recordkeeping plan
60.49b(h)	Submit excess emission reports for NO_x
60.49b(v)	Electronic report submittal
60.49b(w)	Reports required for each 6-month period

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

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

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

f) Testing Requirements

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

a. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 1.64 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.118 mmcf/hr) by the boiler manufacturer emission factor for NOx emissions (0.036 lb of NOx /mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (877.9 gallons/hr) by the boiler manufacturer emission factor for NOx emissions (0.109 lb of NOx /mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

Compliance with this ton per month average limitation shall be based on the record keeping requirements specified in d)(4)e and d)(8) of this permit. The rolling ton per month emissions shall be the sum of the monthly emission rate, determined from the average lb NO_x/mmBtu in d)(4)e multiplied by the total monthly heat input [mmBtu/month] recorded in d(8) and divide by 2000 lbs/ton, with the ton per month emissions from the preceding 11 months and divided by 12 months for the monthly average.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

b. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 1.675 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.118 mmcf/hr) by the boiler manufacturer emission factor for CO emissions (0.037 lb of CO/mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (877.9 gallons/hr) by the boiler manufacturer emission factor for CO emissions (0.059 lb of CO/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

c. Emission Limitation:

Sulfur dioxide (SO_2) emissions shall not exceed 1.21 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(2) and d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.118 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for SO_2 emissions (0.6 lb of SO_2/mmcf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (877.9 gallons/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.3-1, Table 1.3-1 (05/10) emission factor for SO_2 emissions (142S lbs of SO_2/1,000 gallons where S = the % sulfur in the No. 2 fuel (0.3%)), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

d. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 19.68 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(4) of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

e. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 20.10 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified in f)(1)b. of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

f. Emission Limitation:

The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.76 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.118 mmcf/hr) by the boiler manufacturer emission factor for particulate emissions (0.005 lb of PE/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (877.9 gallons/hr) by the boiler manufacturer emission factor for particulate emissions (0.03 lb of PE/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

g. Emission Limitation:

Volatile organic compound (VOC) emissions shall not exceed 2.16 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.118 mmcf/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas (8,760 hrs), and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (877.9 gallons/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

h. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

When burning natural gas, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.118 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for particulates (1.9 lbs/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

When burning No. 2 fuel oil, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum fuel oil capacity of the emissions unit (877.9 gallons/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs of particulates/1,000 gallons - Section 1.3-12, Table 1.3.1 (05/10)), and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, 5 and 19.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-10(B)(1) and PTI #P0138879]

i. Emission Limitation:

Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received, or each daily composite sample of the oil burned during each calendar day, meets the limitation in accordance with d)(2).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-06(D) and PTI #P0138879]

j. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed the following limitations:

Natural gas:

Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

No. 2 oil:

Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

Applicable Compliance Method:

Ongoing compliance with the NO_x emission limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(C) and PTI #P0138879]

k. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average.

Applicable Compliance Method:

Ongoing compliance with the NO_x emission limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) and d)(6) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

l. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.48b(a). The permittee shall also comply with the requirements of f)(2) below.

This compliance method shall be used whenever a compliance demonstration is warranted.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(2) The permittee shall comply with the applicable compliance requirements and testing requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.46b(c)	Compliance and performance test methods and procedures for nitrogen oxides
60.46b(e)	Performance test for NO_x (using PEMS instead of CEMS).

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

g) Miscellaneous Requirements

(1) Modeling to demonstrate compliance with, the Toxic Air Contaminant Statute, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified

permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) Emissions unit B016 was installed in 1999.

(3) The following PTI's were previously issued for emissions unit B016:

a. PTI #13-3602 issued on December 1, 1999;

b. PTI Admin Mod #13-3602 issued on March 8, 2000;

c. PTI Admin Mod #13-3602 issued on July 14, 2005;

d. Chapter 31 PTI #P0118533 issued on October 5, 2015;

e. PTI Admin Mod #P0131893 issued on June 22, 2022; and

f. PTI Admin Mod #P0138879 issued on November 5, 2025.

(4) In the event of a gas curtailment or gas supply interruption, as identified in the definition for "gas-fired boiler" in 40 CFR Part 63.11237, the amount of emissions generated while burning fuel oil are not included for purposes of determining compliance with the ton/month and rolling 12-month emission limitations. However, the burning of the fuel oil would need to comply with the NO_x lb/mmBtu emission limit established in accordance with OAC rule 3745-110-03(C).

3. B022, Gas Boiler #7- Natural gas/No. 2 oil-fired boiler rated at 125.0 mmBtu/hr

Operations, Property and/or Equipment Description:

100,000 lb/hr of steam output natural gas/No. 2 oil-fired boiler rated at 125 mmBtu/hr and equipped with Low NOx Burners (LNB), Flue Gas Recirculation (FGR), economizer, and an oxygen (O2) trim system.

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) g)(1).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T) See g)(2) and g)(3) below.	Nitrogen oxide (NO_x) emissions shall not exceed 1.67 tons per month averaged over a 12-month rolling period. Carbon monoxide (CO) emissions shall not exceed 1.71 tons per month averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total particulate, VOC, and SO_2 emissions from this air contaminant source since the potential to emit is less than 10 tons per year.
c.	OAC rule 3745-31-05(D) Synthetic Minor and Netting to avoid PSD and NNSR.	Sulfur dioxide (SO_2) emissions shall not exceed 1.22 tons per rolling 12-month period. Nitrogen oxide (NO_x) emissions shall not exceed 20.04 tons per rolling 12-month period. Carbon monoxide (CO) emissions shall not exceed 20.46 tons per rolling 12-month period.

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.85 tons per rolling 12-month period. Volatile organic compounds (VOC) emissions shall not exceed 2.20 tons per rolling 12-month period.
d.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation of this rule is less stringent than the visible particulate emissions limitation established in 40 CFR Part 60, Subpart Db.
e.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.
f.	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.
g.	OAC rule 3745-110-03(C)	***Natural gas:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu. ***No. 2 oil:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu. Based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.
h.	40 CFR Part 60 Subpart Db	Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27%.
i.	40 CFR Part 63, Subpart JJJJJJ	See b)(2)c. below.

(2) Additional Terms and Conditions

a. Each continuous NO_x predictive emissions monitoring system shall be certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16 for each permitted fuel. At least 45 days before commencing certification testing of the NO_x predictive emissions monitoring system(s), the permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of NO_x predictive emissions continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x predictive emissions monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct daily sensor evaluations; to conduct quarterly relative accuracy audits; and to conduct yearly relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60, Appendix B, Performance Specification 16.

b. The predictive emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes all sensors, algorithms, and data recording/processing hardware and software. Any change to algorithms or model data used to predict NO_x emissions shall require new certification testing of the NO_x predictive emissions monitoring systems per PS-16 including a three load (27 run RATA). Use of bias adjustment factors, and like kind replacements of the PEMS hardware or sensors used in the model do not require recertification as long as the changes do not significantly (changes of more than 0.5 % absolute O_2, or 5% NO_x) impact the predicted emissions.

c. Provided that this emissions unit meets the definition of a “gas fired boiler”, as defined in 40 CFR Part 63.11237, this emissions unit is not subject to the requirements of this rule if fuel oil is only burned during periods of gas curtailment, gas supply emergencies, or periodic testing. Periodic testing of the fuel oil shall not exceed 48 hours during any calendar year.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(2) The quality of the oil burned in this emissions unit shall meet a sulfur content that is less than or equal to 0.3% by weight which is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit. The fuel oil shall comply with the definition of “very low sulfur oil” contained in 40 CFR Part 60 Subpart Db.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

(3) The permittee shall operate and maintain predictive monitoring equipment to continuously predict and record the NO_x emissions from this emissions unit when combusting natural gas and/or number 2 distillate fuel oil.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0138879]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below:

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-04(F) and PTI #P0138879]

(3) The Ohio EPA, Central Office shall approve the initial certification testing protocol and shall review all initial certification testing data. Upon a satisfactory review of the initial certification testing data, Ohio EPA shall acknowledge that the NO_x predictive emissions monitoring system meets the requirements of Performance Specification 16 by sending a Certification Letter. Once received, the letter/document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(4) The permittee shall operate and maintain equipment to continuously predict and record NO_x emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous NO_x monitoring system including, but not limited to:

a. predicted emissions of NO_x in parts per million on an instantaneous (one-minute) basis;

b. predicted emissions of a diluents (O_2 or CO_2) in percent on an instantaneous (one-minute) basis;

c. predicted flow rates of the emissions stream, in dry standard cubic feet per minute (this is required only for NO_x predictive emissions monitoring systems that are being used to demonstrate compliance with a NO_x pound-per-hour limit.);

d. emissions of NO_x in all units of the applicable standard(s) in the appropriate averaging period;

e. the monthly average emissions of NO_x in lb/mmBtu for each month;

f. results of quarterly relative accuracy audits;

g. results of daily sensor checks and a list of adjustments or repairs/replacements that are made;

h. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

i. hours of operation of the emissions unit and the NO_x predictive emissions monitoring system;

j. the date, time, and hours of operation of the emissions unit without the NO_x predictive emissions monitoring system;

k. the date, time, and hours of operation of the emissions unit during any malfunction of the NO_x predictive emissions monitoring system; and

l. the reason (if known) and the corrective actions taken (if any) for each such event in j. and k. above.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(5) The permittee shall maintain monthly records of the operating hours while burning No. 2 fuel oil.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(6) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.48b (g)(2)	Monitoring requirements for nitrogen oxides
60.49b (d)(1)	Maintain records of fuels
60.49b (f)	Maintain records of opacity
60.49b (g)(1) – (g)(7)	Maintain records of NO_x emissions
60.49b (o)	Maintain records for 2 years
60.49b (r)	Maintain fuel records or develop fuel analysis plan

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(7) The permittee shall maintain records of the following information for each steam generating unit operating day:

a. calendar date;

b. NO_x concentration expressed as ppm and O_2 or CO_2 concentration expressed as percent on an 1-minute basis;

c. the average hourly NO_x emission rates (expressed as NO_2) (lb/ mmBtu heat input) computed from the hourly averages and recorded at the end of the operating day; Ohio EPA requires PEMS readings to be taken every minute, and the 1-minute readings are used for each 15-minute and/or 1-hour average, used to calculate the daily average emissions;

d. the 30-day average NO_x emission rates (lb/mmBtu heat input) for the preceding 30 steam generating unit operating days, calculated at the end of each steam generating unit operating day from the hourly average NO_x emission rates measured by the PEMS;

e. identification of each steam generating unit operating day when the calculated 30- day average NO_x emission rates exceed the NO_x emissions standards under 40 CFR 60.44b and under ORC 3704.03(T)/OAC rule 3745-31-05(A)(3), with the reasons for the excess emissions and a description of the corrective actions taken;

f. a record of any downtime of the PEMS and/or any period of time when data was not obtained from the PEMS; the percent of operating hours for which NO_x and diluent (O_2 or CO_2) data was obtained during the operating day by the PEMS and/or an approved method; the justification for not obtaining sufficient data and description of the corrective action(s) taken;

g. identification of the steam generating unit operating day when emissions data was excluded from the calculation of average emissions rates, the reason for excluding the data, and a description of correction action(s) taken;

h. identification of the "F" factor(s) used for calculations, the method(s) of determination, and type of fuel combusted;

i. identification of the date and time when the NO_x or O_2 concentrations, or the NO_x lb/mmBtu data, could not be predicted because the PEMS were operating outside the envelopes of operation established during the testing of the emissions unit during the PEMS development;

j. a description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16 (or allowance made by LME determinations as outlined above);

k. the results of all Performance Specification 16 required testing;

l. each day maintenance was performed on the NO_x control system, a description of the maintenance performed, and a record of any exceedance due to the maintenance;

m. a record of times when hourly averages were obtained based on manual sampling methods and the Method(s) used; and

n. the annual capacity factor of each fuel fired in each steam generating unit that is restricted by an annual capacity factor to meet a compliance option.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 and PTI #P0138879]

(8) The permittee shall maintain monthly records of the total combined heat input per month, using the natural gas and oil usage and mmBtu heat content data for each fuel, for this emissions unit. The heat input (HI) data shall be recorded by the PEMS and be used in the determination of the total combined heat input per month.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality (Cleveland DAQ) that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(2) The permittee shall submit deviation (excursion) reports to the Cleveland DAQ that identify:

a. any exceedance of the allowable sulfur dioxide emission limitation, pounds sulfur dioxide/mmBtu actual heat input; and

b. any deviation from the maximum % sulfur content limitation, by weight, of the No. 2 fuel oil.

The deviation (excursion) reports shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its NO_x predictive emissions monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of NO_x predicted emissions in excess of any applicable limit specified in this permit, boiler operation with a PEMS parameters outside the envelopes* developed during the model building testing, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

* Note: Periods when the emissions unit is operating outside the envelopes established during the model building testing are viewed as “emission exceedances” by Ohio EPA for purposes of determining compliance with the emission limitations.

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer, model number, and serial number of the NO_x predictive emissions monitoring systems;

iii. a description of any change in the equipment that comprises the predictive emission monitoring system, including any change to the hardware, and/or changes to the software or model data sets in the predictive algorithms;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total NO_x emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the NO_x predictive emissions monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly relative accuracy audits;

ix. unless previously submitted, the results of any relative accuracy test audit showing the NO_x predictive emissions monitor out-of-control and the compliant results following any corrective actions;

x. the date, time, and duration of any/each malfunction** of the NO_x predictive monitoring system and the emissions unit;

xi. the date, time, and duration of any downtime** of the NO_x predictive emissions monitoring system while the emissions unit was in operation; and

xii. the reason (if known) and the corrective actions taken (if any) for each event in x. and xi. above.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(4) The permittee shall submit reports (electronic format) within 30 days following the end of each calendar quarter to the Cleveland Division of Air Quality documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective action(s) taken (if any), of all 30-day average NO_x values in excess of the applicable NO_x emission rate (pound per mmBtu).

The reports shall also identify any predictive NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and/or control equipment malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(5) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.49b(c)	Submit monitoring of operating conditions and recordkeeping plan
60.49b(h)	Submit excess emission reports for NO_x
60.49b(v)	Electronic report submittal
60.49b(w)	Reports required for each 6-month period

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

f) Testing Requirements

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

a. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 1.67 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.120 mmcf/hr) by the boiler manufacturer emission factor for NO_x emissions (0.036 lb of NO_x /mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (892.9 gallons/hr) by the boiler manufacturer emission factor for NO_x emissions (0.109 lb of NO_x /mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

Compliance with this ton per month average limitation shall be based on the record keeping requirements specified in d)(4)e and d)(8) of this permit. The rolling ton per month emissions shall be the sum of the monthly emission rate, determined from the average lb NO_x/mmBtu in d)(4)e multiplied by the total monthly heat input [mmBtu/month] recorded in d(8) and divide by 2000 lbs/ton, with the ton per month emissions from the preceding 11 months and divided by 12 months for the monthly average.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

b. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 1.71 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.120 mmcf/hr) by the boiler manufacturer emission factor for CO emissions (0.037 lb of CO/mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (892.9 gallons/hr) by the boiler manufacturer emission factor for CO emissions (0.059 lb of CO/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0138879]

c. Emission Limitation:

Sulfur dioxide (SO_2) emissions shall not exceed 1.22 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(2) and d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.120 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for SO_2 emissions (0.6 lb of SO_2/mmcf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (892.9 gallons/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.3-1, Table 1.3-1 (05/10) emission factor for SO_2 emissions (142S lbs of SO_2/1,000 gallons where S = the % sulfur in the No. 2 fuel (0.3%)), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

d. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 20.04 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(4) of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

e. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 20.46 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified in f)(1)b. of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

f. Emission Limitation:

The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.85 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.120 mmcf/hr) by the boiler manufacturer emission factor for particulate emissions (0.005 lb of PE/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (892.9 gallons/hr) by the boiler manufacturer emission factor for particulate emissions (0.03 lb of PE/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

g. Emission Limitation:

Volatile organic compound (VOC) emissions shall not exceed 2.20 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.120 mmcf/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (892.9 gallons/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0138879]

h. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

When burning natural gas, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.120 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for particulates (1.9 lbs/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

When burning No. 2 fuel oil, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum fuel oil capacity of the emissions unit (892.9 gallons/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs of particulates/1,000 gallons - Section 1.3-12, Table 1.3.1 (05/10)), and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, 5 and 19.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-10(B)(1) and PTI #P0138879]

i. Emission Limitation:

Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received, or each daily composite sample of the oil burned during each calendar day, meets the limitation in accordance with d)(2).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-06(D) and PTI #P0138879]

j. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed the following limitations:

Natural gas:

Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

No. 2 oil:

Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

Applicable Compliance Method:

Ongoing compliance with the NO_x emission limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(C) and PTI #P0138879]

k. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average.

Applicable Compliance Method:

Ongoing compliance with the NO_x emissions limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) and d)(6) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

l. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.48b(a). The permittee shall also comply with the requirements of f)(2) below.

This compliance method shall be used whenever a compliance demonstration is warranted.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

(2) The permittee shall comply with the applicable compliance requirements and testing requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.46b(c)	Compliance and performance test methods and procedures for nitrogen oxides
60.46b(e)	Performance test for NO_x (using PEMS instead of CEMS).

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0138879]

g) Miscellaneous Requirements

(1) Modeling to demonstrate compliance with, the Toxic Air Contaminant Statute, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified

permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0138879]

(2) Emissions unit B022 was installed in 2011.

(3) The following PTI's were previously issued for emissions unit B022:

a. PTI #P0104976 issued on September 30, 2009;

b. PTI Admin Mod #P0108095 issued on May 23, 2011;

c. PTI Admin Mod #P0109036 issued on November 17, 2011;

d. Chapter 31 PTI #P0118533 issued on October 5, 2015;

e. PTI Admin Mod #P0131893 issued on June 22, 2022; and

f. PTI Admin Mod #P0138879 issued on November 5, 2025.

(4) In the event of a gas curtailment or gas supply interruption, as identified in the definition for "gas-fired boiler" in 40 CFR Part 63.11237, the amount of emissions generated while burning fuel oil are not included for purposes of determining compliance with the ton/month and rolling 12-month emission limitations. However, the burning of the fuel oil would need to comply with the NO_x lb/mmBtu emission limit established in accordance with OAC rule 3745-110-03(C).

4. B023, Gas Boiler #8 – Natural gas/No. 2 oil-fired boiler rated at 119.8 mmBtu/hr

Operations, Property and/or Equipment Description:

Gas Boiler #8 - natural gas/No. 2 oil-fired boiler rated at 119.80 MMBtu/hr heat input equipped with Low NO_x Burners (LNB), Flue Gas Recirculation (FGR), and an oxygen (O_2) trim system.

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) g)(1).

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) ORC 3704.03(T) See g)(2) below.	Nitrogen oxide (NO_x) emissions shall not exceed 1.60 tons per month averaged over a 12-month rolling period. Carbon monoxide (CO) emissions shall not exceed 1.63 tons per month averaged over a 12-month rolling period.
b.	OAC rule 3745-31-05(A)(3)(a)(ii)	The Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3) do not apply to the total particulate, VOC, and SO_2 emissions from this air contaminant source since the potential to emit is less than 10 tons per year.
c.	OAC rule 3745-31-05(D) (Synthetic Minor and Netting to avoid PSD and NNSR.)	Sulfur dioxide (SO_2) emissions shall not exceed 1.18 tons per rolling 12-month period. Nitrogen oxide (NO_x) emissions shall not exceed 19.19 tons per rolling 12-month period. Carbon monoxide (CO) emissions shall not exceed 19.57 tons per rolling 12-month period.

		The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.72 tons per rolling 12-month period. Volatile organic compounds (VOC) emissions shall not exceed 2.11 tons per rolling 12-month period.
d.	OAC rule 3745-17-07(A)	The visible particulate emissions limitation of this rule is less stringent than the visible particulate emissions limitation established in 40 CFR Part 60, Subpart Db.
e.	OAC rule 3745-17-10(B)(1)	Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.
f.	OAC rule 3745-18-06(D)	Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.
g.	OAC rule 3745-110-03(C)	***Natural gas:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu. ***No. 2 oil:*** Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu. Based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.
h.	40 CFR Part 60 Subpart Db	Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average. Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27%.
i.	40 CFR Part 63, Subpart JJJJJJ	See b)(2)c. below.

(2) Additional Terms and Conditions

a. Each continuous NO_x predictive emissions monitoring system shall be certified to meet the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16 for each permitted fuel. At least 45 days before commencing certification testing of the NO_x predictive emissions monitoring system(s), the permittee shall develop and maintain a written quality assurance/quality control plan designed to ensure continuous valid and representative readings of NO_x predictive emissions continuous monitor(s), in units of the applicable standard(s). The plan shall follow the requirements of 40 CFR Part 60, Appendix B, Performance Specification 16. The quality assurance/quality control plan and a logbook dedicated to the continuous NO_x predictive emissions monitoring system must be kept on site and available for inspection during regular office hours.

The plan shall include the requirement to conduct daily sensor evaluations; to conduct quarterly relative accuracy audits; and to conduct yearly relative accuracy test audits in units of the standard(s), in accordance with and at the frequencies required per 40 CFR Part 60, Appendix B, Performance Specification 16.

b. The predictive emission monitoring system consists of all the equipment used to acquire data to provide a record of emissions and includes all sensors, algorithms, and data recording/processing hardware and software. Any change to algorithms or model data used to predict NO_x emissions shall require new certification testing of the NO_x predictive emissions monitoring systems per PS-16 including a three load (27 run RATA). Use of bias adjustment factors, and like kind replacements of the PEMS hardware or sensors used in the model do not require recertification as long as the changes do not significantly (changes of more than 0.5 % absolute O_2, or 5% NO_x) impact the predicted emissions.

c. Provided that this emissions unit meets the definition of a “gas fired boiler”, as defined in 40 CFR Part 63.11237, this emissions unit is not subject to the requirements of this rule if fuel oil is only burned during periods of gas curtailment, gas supply emergencies, or periodic testing. Periodic testing of the fuel oil shall not exceed 48 hours during any calendar year.

c) Operational Restrictions

(1) The permittee shall burn only natural gas and/or number two fuel oil in this emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0131892]

(2) The quality of the oil burned in this emissions unit shall meet a sulfur content that is less than or equal to 0.3% by weight which is sufficient to comply with the allowable sulfur dioxide emission limitation specified in this permit. The fuel oil shall comply with the definition of “very low sulfur oil” contained in 40 CFR Part 60 Subpart Db.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0131892]

(3) The permittee shall operate and maintain predictive monitoring equipment to continuously predict and record the NO_x emissions from this emissions unit when combusting natural gas and/or number 2 distillate fuel oil.

[Authority for term: OAC rule 3745-77-07(A)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0131892]

(2) The permittee shall maintain records of the oil burned in this emissions unit in accordance with either Alternative 1 or Alternative 2 described below:

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F).

The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with 40 CFR Part 60, Appendix A, Method 19, or the appropriate ASTM methods, such as ASTM methods D240 Standard Test Method for Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter and D4294, Standard Test Method for Sulfur in Petroleum and Petroleum Products by Energy-Dispersive X-Ray Fluorescence Spectrometry, or equivalent methods as approved by the Director.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-04(F) and PTI #P0131892]

(3) The Ohio EPA, Central Office shall approve the initial certification testing protocol, and shall review all initial certification testing data. Upon a satisfactory review of the initial certification testing data, Ohio EPA shall acknowledge that the NO_x predictive emissions monitoring system meets the requirements of Performance Specification 16 by sending a Certification Letter. Once received, the letter/document of certification shall be maintained on-site and shall be made available to the Director (the appropriate Ohio EPA District Office or local air agency) upon request.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(4) The permittee shall install, operate, and maintain equipment to continuously predict and record NO_x emissions from this emissions unit in units of the applicable standard(s). The continuous monitoring and recording equipment shall comply with the requirements specified in 40 CFR Part 60.

The permittee shall maintain records of data obtained by the continuous NO_x monitoring system including, but not limited to:

a. predicted emissions of NO_x in parts per million on an instantaneous (one-minute) basis;

b. predicted emissions of a diluents (O_2 or CO_2) in percent on an instantaneous (one-minute) basis;

c. predicted flow rates of the emissions stream, in dry standard cubic feet per minute (this is required only for NO_x predictive emissions monitoring systems that are being used to demonstrate compliance with a NO_x pound-per-hour limit.);

d. emissions of NO_x in all units of the applicable standard(s) in the appropriate averaging period;

e. the monthly average emissions of NO_x in lb/mmBtu for each month;

f. results of quarterly relative accuracy audits;

g. results of daily sensor checks and a list of adjustments or repairs/replacements that are made;

h. results of required relative accuracy test audit(s), including results in units of the applicable standard(s);

i. hours of operation of the emissions unit and the NO_x predictive emissions monitoring system;

j. the date, time, and hours of operation of the emissions unit without the NO_x predictive emissions monitoring system;

k. the date, time, and hours of operation of the emissions unit during any malfunction of the NO_x predictive emissions monitoring system; and

l. the reason (if known) and the corrective actions taken (if any) for each such event in j. and k. above.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(5) The permittee shall maintain monthly records of the operating hours while burning No. 2 fuel oil.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0131892]

(6) The permittee shall comply with the applicable monitoring and record keeping requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.48b (g)(2)	Monitoring requirements for nitrogen oxides
60.49b (d)(1)	Maintain records of fuels
60.49b (f)	Maintain records of opacity
60.49b (g)(1) – (g)(7)	Maintain records of NO_x emissions
60.49b (o)	Maintain records for 2 years
60.49b (r)	Maintain fuel records or develop fuel analysis plan

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(7) The permittee shall maintain records of the following information for each steam generating unit operating day:

a. calendar date;

b. NO_x concentration expressed as ppm and O_2 or CO_2 concentration expressed as percent on an 1-minute basis;

c. the average hourly NO_x emission rates (expressed as $N0_2$) (lb/ mmBtu heat input) computed from the hourly averages and recorded at the end of the operating day; Ohio EPA requires PEMS readings to be taken every minute, and the 1-minute readings are used for each 15-minute and/or 1-hour average, used to calculate the daily average emissions;

d. the 30-day average NO_x emission rates (lb/mmBtu heat input) for the preceding 30 steam generating unit operating days, calculated at the end of each steam generating unit operating day from the hourly average NO_x emission rates measured by the PEMS;

e. identification of each steam generating unit operating day when the calculated 30- day average NO_x emission rates exceed the NO_x emissions standards under 40 CFR 60.44b and under ORC 3704.03(T)/OAC rule 3745-31-05(A)(3), with the reasons for the excess emissions and a description of the corrective actions taken;

f. a record of any downtime of the PEMS and/or any period of time when data was not obtained from the PEMS; the percent of operating hours for which NO_x and diluent (O_2 or CO_2) data was obtained during the operating day by the PEMS and/or an approved method; the justification for not obtaining sufficient data and description of the corrective action(s) taken;

g. identification of the steam generating unit operating day when emissions data was excluded from the calculation of average emissions rates, the reason for excluding the data, and a description of correction action(s) taken;

h. identification of the "F" factor(s) used for calculations, the method(s) of determination, and type of fuel combusted;

i. identification of the date and time when the NO_x or O_2 concentrations, or the NO_x lb/mmBtu data, could not be predicted because the PEMS were operating outside the envelopes of operation established during the testing of the emissions unit during the PEMS development;

j. a description of any modifications to the PEMS that could affect the ability of the PEMS to comply with Performance Specification 16 (or allowance made by LME determinations as outlined above);

k. the results of all Performance Specification 16 required testing;

l. each day maintenance was performed on the NO_x control system, a description of the maintenance performed, and a record of any exceedance due to the maintenance;

m. a record of times when hourly averages were obtained based on manual sampling methods and the Method(s) used; and

n. the annual capacity factor of each fuel fired in each steam generating unit that is restricted by an annual capacity factor to meet a compliance option.

[Authority for term: OAC rule 3745-77-07(C)(1) and 40 CFR Part 60]

(8) The permittee shall maintain monthly records of the total combined heat input per month, using the natural gas and oil usage and mmBtu heat content data for each fuel, for this emissions unit. The heat input (HI) data shall be recorded by the PEMS and be used in the determination of the total combined heat input per month.

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

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality (Cleveland DAQ) that identify each day when a fuel other than natural gas and/or number two fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(2) The permittee shall submit deviation (excursion) reports to the Cleveland DAQ that identify:

a. any exceedance of the allowable sulfur dioxide emission limitation, pounds sulfur dioxide/MMBtu actual heat input; and

b. any deviation from the maximum % sulfur content, by weight, limitation on the No. 2 fuel oil.

The deviation (excursion) reports shall be submitted within 30 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0131892]

(3) The permittee shall comply with the following quarterly reporting requirements for the emissions unit and its NO_x predictive emissions monitoring system:

a. Pursuant to the monitoring, record keeping, and reporting requirements for continuous monitoring systems contained in 40 CFR 60.7 and 60.13(h) and the requirements established in this permit, the permittee shall submit reports within 30 days following the end of each calendar quarter to the appropriate Ohio EPA District Office or local air agency, documenting all instances of NO_x predicted emissions in excess of any applicable limit specified in this permit, boiler operation with a PEMS parameters outside the envelopes* developed during the model building testing, 40 CFR Part 60, OAC Chapters 3745-14 and 3745-23, and any other applicable rules or regulations. The report shall document the date, commencement and completion times, duration, and magnitude of each exceedance, as well as the reason (if known) and the corrective actions taken (if any) for each exceedance. Excess emissions shall be reported in units of the applicable standard(s).

* Note: Periods when the emissions unit is operating outside the envelopes established during the model building testing are viewed as “emission exceedances” by Ohio EPA for purposes of determining compliance with the emission limitations.

b. These quarterly reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall include the following:

i. the facility name and address;

ii. the manufacturer, model number, and serial number of the NO_x predictive emissions monitoring systems;

iii. a description of any change in the equipment that comprises the predictive emission monitoring system, including any change to the hardware, and/or changes to the software or model data sets in the predictive algorithms;

iv. the excess emissions report (EER)*, i.e., a summary of any exceedances during the calendar quarter, as specified above;

v. the total NO_x emissions for the calendar quarter (tons);

vi. the total operating time (hours) of the emissions unit;

vii. the total operating time of the NO_x predictive emissions monitoring system while the emissions unit was in operation;

viii. results and dates of quarterly relative accuracy audits;

ix. unless previously submitted, the results of any relative accuracy test audit showing the NO_x predictive emissions monitor out-of-control and the compliant results following any corrective actions;

x. the date, time, and duration of any/each malfunction** of the NO_x predictive monitoring system and the emissions unit;

xi. the date, time, and duration of any downtime** of the NO_x predictive emissions monitoring system while the emissions unit was in operation; and

xii. the reason (if known) and the corrective actions taken (if any) for each event in x. and xi. above.

Each report shall address the operations conducted and data obtained during the previous calendar quarter.

* where no excess emissions have occurred or the continuous monitoring system(s) has/have not been inoperative, repaired, or adjusted during the calendar quarter, such information shall be documented in the EER quarterly report.

** each downtime and malfunction event shall be reported regardless if there is an exceedance of any applicable limit.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(4) The permittee shall submit reports (electronic format) within 30 days following the end of each calendar quarter to the Cleveland Division of Air Quality documenting the date, commencement and completion times, duration, magnitude, reason (if known), and corrective action(s) taken (if any), of all 30-day average NO_x values in excess of the applicable NO_x emission rate (pound per mmBtu).

The reports shall also identify any predictive NO_x monitoring system downtime while the emissions unit was on line (date, time, duration and reason) along with any corrective action(s) taken. The permittee shall provide the emissions unit operating time during the reporting period and the date, time, reason, and corrective action(s) taken for each time period of emissions unit and/or control equipment malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

If there are no excess emissions during the calendar quarter, the permittee shall submit a statement to that effect along with the date, time, reason, and corrective action(s) taken for each time period of monitoring system malfunction. The total operating time of the emissions unit and the total operating time of the analyzer while the emissions unit was on line also shall be included in the quarterly report.

These quarterly excess emission reports shall be submitted by January 30, April 30, July 30, and October 30 of each year and shall address the data obtained during the previous calendar quarter.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(5) The permittee shall comply with the applicable reporting requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.49b(c)	Submit monitoring of operating conditions and recordkeeping plan
60.49b(h)	Submit excess emission reports for NO_x
60.49b(v)	Electronic report submittal
60.49b(w)	Reports required for each 6-month period

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

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

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

f) Testing Requirements

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

a. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 1.60 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.115 mmcf/hr) by the boiler manufacturer emission factor for NO_x emissions (0.036 lb of NO_x /mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (855.7 gallons/hr) by the boiler manufacturer emission factor for NO_x emissions (0.109 lb of NO_x/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

Compliance with this ton per month average limitation shall be based on the record keeping requirements specified in d)(4)e and d)(8) of this permit. The rolling ton per month emissions shall be the sum of the monthly emission rate, determined from the average lb NO_x/mmBtu in d)(4)e multiplied by the total monthly heat input [mmBtu/month] recorded in d(8) and divide by 2000 lbs/ton, with the ton per month emissions from the preceding 11 months and divided by 12 months for the monthly average.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0131892]

b. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 1.63 tons per month averaged over a 12-month rolling period.

Applicable Compliance Method:

The monthly average emissions limitation was established by multiplying the maximum hourly natural gas usage rate (0.115 mmcf/hr) by the boiler manufacturer emission factor for CO emissions (0.037 lb of CO/mmBtu), the heat content of natural gas (1,040 Btu/cf), the maximum operating hours of the emissions unit while burning natural gas (8,760 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions limitation was established by multiplying the maximum hourly No. 2 oil usage rate (855.7 gallons/hr) by the boiler manufacturer emission factor for CO emissions (0.059 lb of CO/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the annual operating hours restriction of the emissions unit while burning No. 2 oil (48 hrs), dividing by 2,000 lbs/ton and divide by 12 months.

The monthly average emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0131892]

c. Emission Limitation:

Sulfur dioxide (SO_2) emissions shall not exceed 1.18 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(2) and d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.115 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for SO_2 emissions (0.6 lb of SO_2/mmcf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the hourly No. 2 oil usage rate (855.7 gallons/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.3-1, Table 1.3-1 (05/10) emission factor for SO_2 emissions (142S lbs of SO_2/1,000 gallons where S = the % sulfur in the No. 2 fuel (0.3%)), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0131892]

d. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 19.19 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(4) of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0131892]

e. Emission Limitation:

Carbon monoxide (CO) emissions shall not exceed 19.57 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified in f)(1)b. of this permit and shall be the sum of the monthly emission rates for each rolling, 12-month period.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0131892]

f. Emission Limitation:

The total particulate emissions (including $PM_{10}/PM_{2.5}$) shall not exceed 2.72 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.115 mmcf/hr) by the boiler manufacturer emission factor for particulate emissions (0.005 lb of PE/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (855.7 gallons/hr) by the boiler manufacturer emission factor for particulate emissions (0.03 lb of PE/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0131892]

g. Emission Limitation:

Volatile organic compound (VOC) emissions shall not exceed 2.11 tons per rolling 12-month period.

Applicable Compliance Method:

Compliance with this annual limitation shall be based on the record keeping requirements specified in d)(5) and using the calculations identified below and shall be the sum of the monthly emission rates for each rolling, 12-month period.

The monthly emissions shall be determined by multiplying the maximum hourly natural gas usage rate (0.115 mmcf/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of natural gas (1,040 Btu/cf), the operating hours per month of the emissions unit while burning natural gas, and dividing by 2,000 lbs/ton.

The monthly emissions shall be determined by multiplying the maximum hourly No. 2 oil usage rate (855.7 gallons/hr) by the boiler manufacturer emission factor for VOC emissions (0.004 lb of VOC/mmBtu), the heat content of No. 2 oil (0.14 mmBtu/gallon), the operating hours per month of the emissions unit while burning No. 2 oil, and dividing by 2,000 lbs/ton.

The monthly emissions from both fuels are summed to obtain the total ton per month emission rate based on the actual operating hours for each type of fuel.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(D) and PTI #P0131892]

h. Emission Limitation:

Particulate emissions (PE) shall not exceed 0.020 lb/mmBtu actual heat input.

Applicable Compliance Method:

When burning natural gas, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.115 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition Compilation of Air Pollution Emission Factors Section 1.4 Table 1.4-2 (7/98) emission factor for particulates (1.9 lbs/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

When burning No. 2 fuel oil, compliance with the lb/mmBtu emission limitation may be determined by multiplying the maximum fuel oil capacity of the emissions unit (855.7 gallons/hr) by the AP-42 emission factor for No. 2 fuel oil (2.0 lbs of particulates/1,000 gallons - Section 1.3-12, Table 1.3.1 (05/10)), and dividing by the maximum hourly heat input capacity of the emissions unit (119.8 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4, 5 and 19.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-10(B)(1) and PTI #P0131892]

i. Emission Limitation:

Sulfur dioxide emissions shall not exceed 1.6 lbs/mmBtu actual heat input.

Applicable Compliance Method:

Compliance with the allowable sulfur dioxide emission limitation shall be demonstrated by documenting that the sulfur content of each shipment of oil received, or each daily composite sample of the oil burned during each calendar day, meets the limitation in accordance with d)(2).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-18-06(D) and PTI #P0131892]

j. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed the following limitations:

Natural gas:

Nitrogen oxide (NO_x) emissions shall not exceed 0.08 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

No. 2 oil:

Nitrogen oxide (NO_x) emissions shall not exceed 0.10 lb/mmBtu based on a 24 hour daily heat input-weighted average or a 30 day rolling heat input-weighted average emission rate from October 1st to April 30th.

Applicable Compliance Method:

Ongoing compliance with the NO_x emission limitations contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved USEPA methods as applicable.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-03(C) and PTI #P0131892]

k. Emission Limitation:

Nitrogen oxide (NO_x) emissions shall not exceed 0.20 lb/mmBtu as a rolling, 30-day average.

Applicable Compliance Method:

Ongoing compliance with the NO_x emission limitation contained in this permit, 40 CFR Part 60, and any other applicable standard(s) shall be demonstrated through the data collected as required in d)(4) and d)(6) of the monitoring and record keeping section of this permit; and through demonstration of compliance with the quality assurance/quality control plan, which shall meet the testing and recertification requirements of 40 CFR Part 60.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved USEPA methods as applicable.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

l. Emission Limitation:

Visible particulate emissions shall not exceed 20% opacity, as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.

Applicable Compliance Method:

Compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in 40 CFR Part 60.48b(a). The permittee shall also comply with the requirements of f)(2) below.

This compliance method shall be used whenever a compliance demonstration is warranted.

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

(2) The permittee shall comply with the applicable compliance requirements and testing requirements required under 40 CFR Part 60, Subpart Db, including the following sections:

Applicable Rule	Requirement
60.46b(c)	Compliance and performance test methods and procedures for nitrogen oxides
60.46b(e)	Performance test for NO_x (using PEMS instead of CEMS).

[Authority for term: OAC rule 3745-77-07(C)(1), 40 CFR Part 60 Subpart Db and PTI #P0131892]

g) Miscellaneous Requirements

(1) Modeling to demonstrate compliance with, the Toxic Air Contaminant Statute, ORC 3704.03(F)(4)(b), was not necessary because the emissions unit's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than 1.0 ton per year. OAC Chapter 3745-31 requires permittees to apply for and obtain a new or modified

permit to install prior to making a "modification" as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes in the composition of the materials, or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above 1.0 ton per year may require the permittee to apply for and obtain a new permit to install.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0131892]

(2) Emissions unit B023 was installed in 2016.

(3) The following PTI's were previously issued for emissions unit B023:

a. PTI #P0118541 issued on October 5, 2015;

b. PTI Admin Mod #P0120687 issued on August 17, 2016; and

c. PTI Admin Mod #P0131892 issued on June 22, 2022.

(4) In the event of a gas curtailment or gas supply interruption, as identified in the definition for "gas-fired boiler" in 40 CFR Part 63.11237, the amount of emissions generated while burning fuel oil are not included for purposes of determining compliance with the ton/month and rolling 12-month emission limitations. However, the burning of the fuel oil would need to comply with the NO_x lb/mmBtu emission limit established in accordance with OAC rule 3745-110-03(C).

5. P004, Cooling Tower - CT1S-CT5S, CT13S

Operations, Property and/or Equipment Description:

22,500 gallons per minute (gpm) forced draft Cooling Tower, to cool boiler water for facility chiller system (particulate emissions are controlled by a drift eliminator) CT1S1-CT5S, CT13S

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #13-04299 issued August 31, 2004)	Particulate emissions shall not exceed 2.30 lbs/hr and 10.1 tons per year (TPY). Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)	The particulate emission limitation specified by this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The permittee shall operate the drift eliminator at all times when the emissions unit is in operation.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-04299]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain daily records that document any time periods when the drift eliminator was not in service when the emissions unit was in operation.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

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

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

e) Reporting Requirements

(1) The permittee shall notify the Cleveland Division of Air Quality (Cleveland DAQ) in writing of any record showing that the drift eliminator was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Cleveland DAQ within 30 days after the event occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

(2) The permittee shall submit semiannual written reports that identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

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

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

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:

Particulate emissions shall not exceed 2.30 lbs/hr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be determined by multiplying the AP-42 emission factor for wet cooling towers* (1.7 lbs of PE/1,000 gal) by 2% of the circulating water flow (0.02), by the maximum hourly water flow rate (22,500 gal/min x 60 min/hr), and then by (1 - 0.95), which is the control efficiency of the drift eliminator.

*AP-42, Compilation of Air Pollution Emission Factors, Fifth Edition, Supplement D (1-95), Table 13.4-1

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3) and PTI #13-04299]

b. Emission Limitation:

Particulate emissions shall not exceed 10.1 TPY.

Applicable Compliance Method:

Provided compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 hours per year, and then dividing by 2000 lbs per ton), compliance with the annual limitation shall also be demonstrated.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3) and PTI #13-04299]

c. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-03(B)(1), 3745-31-05(A)(3) and PTI #13-04299]

g) Miscellaneous Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirement is as stringent as or more stringent than the testing requirement contained in Permit to Install # 13-04299, issued on August 31, 2004: f)(1)c.. The testing requirement contained in the above-referenced Permit to Install is subsumed into the testing requirement of this operating permit, so that

compliance with this requirement constitutes compliance with the testing requirement in the Permit to Install.

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

(2) Emissions unit P004 was installed in 2001.

6. P009, Cooling Tower CT6S-CT12S

Operations, Property and/or Equipment Description:

7-Cell crossflow Cooling Tower rated at 20,000 gal/min. Particulate emissions are controlled by a drift eliminator.

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(E)	See b)(2)a. below.
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)	The particulate emission limitation specified by this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. Permit to Install P0104836, issued June 5, 2009 for this air contaminant source, takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment), as proposed by the permittee, for the purpose of avoiding Best Available Technology (BAT) requirements under OAC rule 3745-31-05(A)(3):

i. All particulate emissions will be controlled by a drift eliminator.

ii. Particulate emissions shall not exceed 2.04 lbs/hr and 8.94 tons per year (TPY).

iii. Particulate (PM_{10}) emissions shall not exceed 1.14 lbs/hr and 4.99 tons per year (TPY).

iv. Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.

c) Operational Restrictions

(1) The permittee shall operate the drift eliminator at all times when the emissions unit is in operation.

[Authority for term: OAC rules 3745-77-07(A)(1) and 3745-31-05(E) and PTI#P0104836]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain daily records that document any time periods when the drift eliminator was not in service when the emissions unit was in operation.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI#P0104836]

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

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0104836]

e) Reporting Requirements

(1) The permittee shall notify the Cleveland Division of Air Quality (Cleveland DAQ) in writing of any record showing that the drift eliminator was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Cleveland DAQ within 30 days after the event occurs.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI#P0104836]

(2) The permittee shall submit semiannual written reports that:

a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

b. describe any corrective actions taken to eliminate the visible particulate emissions.

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0104836]

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

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

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:

Particulate emissions shall not exceed 2.04 lbs/hr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be determined by multiplying the AP-42 emission factor for wet cooling towers* (1.7 lbs of PE/1,000 gal) by 2% of the circulating water flow (0.02), by the maximum hourly water flow rate (20,000 gal/min x 60 min/hr), and then by (1 - 0.95), which is the control efficiency of the drift eliminator.

*AP-42, Compilation of Air Pollution Emission Factors, Fifth Edition, Supplement D (1-95), Table 13.4-1

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI #P0104836]

b. Emission Limitation:

Particulate emissions shall not exceed 8.94 TPY.

Applicable Compliance Method:

Provided compliance with the hourly limitation is maintained, compliance with the annual limitation shall also be demonstrated (the annual limitation was calculated by multiplying the hourly limitation by 8,760 hours per year, and then dividing by 2,000 lbs per ton).

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI #P0104836]

c. Emission Limitation:

Particulate (PM_{10}) emissions shall not exceed 1.14 lbs/hr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be determined by multiplying the AP-42 emission factor for wet cooling towers* (0.019 lb of PE/1,000 gal) by the maximum hourly water flow rate (20,000 gal/min x 60 min/hr), and then by (1 - 0.95), which is the control efficiency of the drift eliminator.

*AP-42, Compilation of Air Pollution Emission Factors, Fifth Edition, Supplement D (1-95), Table 13.4-1

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI #P0104836]

d. Emission Limitation:

Particulate (PM_{10}) emissions shall not exceed 4.99 TPY

Applicable Compliance Method:

Provided compliance with the hourly limitation is maintained, compliance with the annual limitation shall also be demonstrated (the annual limitation was calculated by multiplying the hourly limitation by 8,760 hours per year, and then dividing by 2,000 lbs per ton).

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(E) and PTI #P0104836]

e. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-03(B)(1) and 3745-31-05(E) and PTI #P0104836]

g) Miscellaneous Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirement is as stringent as or more stringent than the testing requirement contained in Permit to Install # P0104836, issued on June 5, 2009: f)(1)e.. The testing requirement contained in the above-referenced Permit to Install is subsumed into the testing requirement of this operating permit, so that compliance with this requirement constitutes compliance with the testing requirement in the Permit to Install.

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

(2) Emissions unit P009 was installed in 2011.

7. Emissions Unit Group - 13,020 gpm cooling towers: P001, P002, P003

EU ID	Operations, Property and/or Equipment Description
P001	13,000 gallons per minute (gpm) forced draft Cooling Tower, to cool boiler water for facility chiller system (particulate emissions are controlled by a drift eliminator) CT1-CT5
P002	13,000 gallons per minute (gpm) forced draft Cooling Tower, to cool boiler water for facility chiller system (particulate emissions are controlled by a drift eliminator) CT6-CT10
P003	13,000 gallons per minute (gpm) forced draft Cooling Tower, to cool boiler water for facility chiller system (particulate emissions are controlled by a drift eliminator) CT11-CT15

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) (PTI #13-04299 issued August 31, 2004)	Particulate emissions shall not exceed 1.32 lbs/hr and 5.78 tons per year (TPY). Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.
b.	OAC rule 3745-17-07(A)	The visible particulate emission limitation specified by this rule is less stringent than the visible particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-11(B)	The particulate emission limitation specified by this rule is less stringent than the particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

a. None.

c) Operational Restrictions

(1) The permittee shall operate the drift eliminator at all times when the emissions unit is in operation.

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #13-04299]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain daily records that document any time periods when the drift eliminator was not in service when the emissions unit was in operation.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

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

a. the color of the emissions;

b. whether the emissions are representative of normal operations;

c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;

d. the total duration of any visible emission incident; and

e. any corrective actions taken to eliminate the visible emissions.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

e) Reporting Requirements

(1) The permittee shall notify the Cleveland Division of Air Quality (Cleveland DAQ) in writing of any record showing that the drift eliminator was not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Cleveland DAQ within 30 days after the event occurs.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

(2) The permittee shall submit semiannual written reports that:

a. identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit; and

b. describe any corrective actions taken to eliminate the visible particulate emissions.

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #13-04299]

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

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

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:

Particulate emissions shall not exceed 1.32 lbs/hr.

Applicable Compliance Method:

Compliance with the hourly emission limitation may be determined by multiplying the AP-42 emission factor for wet cooling towers* (1.7 lbs of PE/1,000 gal) by 2% of the circulating water flow (0.02), by the maximum hourly water flow rate (13,020 gal/min x 60 min/hr), and then by (1 - 0.95), which is the control efficiency of the drift eliminator.

*AP-42, Compilation of Air Pollution Emission Factors, Fifth Edition, Supplement D (1-95), Table 13.4-1

If required, the permittee shall demonstrate compliance with the lbs/hr emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3) and PTI #13-04299]

b. Emission Limitation:

Particulate emissions shall not exceed 5.78 TPY.

Applicable Compliance Method:

Provided compliance with the hourly limitation is maintained, compliance with the annual limitation shall also be demonstrated (the annual limitation was calculated by multiplying the hourly limitation by 8,760 hours per year, and then dividing by 2,000 lbs per ton).

[Authority for term: OAC rules 3745-77-07(C)(1) and 3745-31-05(A)(3) and PTI #13-04299]

c. Emission Limitation:

Visible particulate emissions shall not exceed 5% opacity, as a 6-minute average.

Applicable Compliance Method:

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

No visible emission observations are specifically required to demonstrate compliance with these emission limitations but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-03(B)(1) and 3745-31-05(A)(3), and PTI #13-04299]

g) Miscellaneous Requirements

(1) Pursuant to OAC Rule 3745-77-07(A)(3)(a)(ii), the following testing requirement is as stringent as or more stringent than the testing requirement contained in Permit to Install # 1304299, issued on August 31, 2004: f)(1)c.. The testing requirement contained in the above-referenced Permit to Install is subsumed into the testing requirement of this operating permit, so that compliance with this requirement constitutes compliance with the testing requirement in the Permit to Install.

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

(2) Emissions unit P001 was installed in 1997, emissions unit P002 was installed in 1999, and emissions unit P003 was installed in 2000.

8. Emissions Unit Group - 64.5 mmBtu/hr natural gas boiler: B009, B010

EU ID	Operations, Property and/or Equipment Description
B009	Gas Boiler #3 - 50,000 lb/hr of steam (maximum output) natural gas-fired boiler rated at 64.5 mmBtu/hr and equipped with a Low NO_x Burner
B010	Gas Boiler #4 - 50,000 lb/hr of steam (maximum output) natural gas-fired boiler rated at 64.5 mmBtu/hr and equipped with a Low NO_x Burner

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-31-05(A)(3) See g)(1) below.	SO_2 emissions shall not exceed 0.0006 lb per mmBtu of actual heat input and 0.17 TPY. Particulate emissions shall not exceed 5.65 TPY. NO_x emissions shall not exceed 0.0375 lb per mmBtu of actual heat input and 10.59 TPY.
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by rule.
c.	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb per mmBtu of actual heat input.
d.	OAC rule 3745-110-03(B)	The NO_x emission limitation specified by this rule is less stringent than the NO_x emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
e.	40 CFR Part 63, Subpart JJJJJJ	See b)(2)b. below.

(2) Additional Terms and Conditions

a. OAC rule 3745-18-06 does not establish a sulfur dioxide emission limitation for this "fuel burning equipment" because it only employs natural gas as fuel.

b. Provided that this emissions unit meets the definition of a “gas-fired boiler”, as defined in 40 CFR Part 63.11237, this emissions unit is not subject to the requirements of this rule.

c) Operational Restrictions

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

[Authority for term: OAC rule 3745-77-07(A)(1) and PTI #P0105968]

d) Monitoring and/or Recordkeeping Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0105968]

(2) The permittee shall maintain records of the actual amount (in mmcf/year) of natural gas consumed in this emissions unit.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0105968]

e) Reporting Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI #P0105968]

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

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

f) Testing Requirements

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

a. Emission Limitation:

SO_2 emissions shall not exceed 0.0006 lb per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0598 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98) emission factor for SO_2 (0.6 lb SO_2/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (64.5 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0105968]

b. Emission Limitation:

SO_2 emissions shall not exceed 0.17 TPY.

Applicable Compliance Method:

The annual emissions rate was established by multiplying the hourly emission rate (determined from the lb/mmBtu rate multiplied by the 64.5 mmBtu/hr capacity) by 8,760 hours of operation per year and dividing by 2,000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the lb/mmBtu limitation.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0105968]

c. Emission Limitation:

Particulate emissions shall not exceed 5.65 TPY.

Applicable Compliance Method:

The annual emissions rate was established by multiplying the hourly emission rate (determined from the lb/mmBtu rate multiplied by the 64.5 mmBtu/hr capacity) by 8,760 hours of operation per year and dividing by 2,000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the lb/mmBtu limitation.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0105968]

d. Emission Limitation:

NO_x emissions shall not exceed 0.0375 lb per mmBtu of actual heat input.

Applicable Compliance Method:

Stack testing was performed in accordance with the requirements of OAC rule 3745-110-05 on July 16 & 17, 2009. The results show an average of 0.0290 lb/mmBtu of NO_x emissions which is in compliance with the allowable emissions limitation.

If required, the permittee shall demonstrate compliance with the emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7, 7A, 7C, 7D, or 7E, and any additional approved U.S. EPA methods as applicable.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-110-05, 3745-31-05(A)(3) and PTI #P0105968]

e. Emission Limitation:

NO_x emissions shall not exceed 10.59 TPY.

Applicable Compliance Method:

The annual emissions rate was established by multiplying the hourly emission rate (determined from the lb/mmBtu rate multiplied by the 64.5 mmBtu/hr capacity) by 8,760 hours of operation per year and dividing by 2,000 pounds per ton. Therefore, compliance with the annual emission limitation shall be assumed provided compliance is maintained with the lb/mmBtu limitation.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-31-05(A)(3) and PTI #P0105968]

f. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20% opacity, as a 6-minute average, except as provided by OAC rule 3745-17-07(A).

Applicable Compliance Method(s):

Compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) using the methods and procedures specified in U.S. EPA Method 9 of 40 CFR Part 60, Appendix A.

No visible emission observations are specifically required to demonstrate compliance with this emission limitation but, if appropriate, may be required pursuant to OAC rule 3745-15-04(A).

[Authority for term: OAC rules 3745-17-03(B)(1)(a), 3745-77-07(C)(1) and PTI #P0105968]

g. Emission Limitation:

Particulate emissions shall not exceed 0.020 lb per mmBtu of actual heat input.

Applicable Compliance Method:

For the use of natural gas, compliance shall be based upon multiplying the maximum hourly gas burning capacity of the emissions unit (0.0598 mmcf/hr) by the U.S. EPA reference document AP-42, 5th edition, Compilation of Air Pollution Emission Factors, Section 1.4, Table 1.4-2 (7/98) emission factor for PM/PM_{10} (7.6 lbs PM/PM_{10}/mmcf) and dividing by the maximum hourly heat input capacity of the emissions unit (64.5 mmBtu/hr).

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Authority for term: OAC rules 3745-77-07(C)(1), 3745-17-10(B)(1) and PTI #P0105968]

g) Miscellaneous Requirements

(1) Emissions units B009 and B010 were each installed in 1988.

(2) The following PTI's were previously issued for emissions units B009 and B010:

a. PTI #13-1726 issued on August 24, 1987; and

b. PTI Admin mod #P0105968 issued on March 23, 2010.