



John R. Kasich, Governor
Mary Taylor, Lt. Governor
Craig W. Butler, Director

7/20/2016

Certified Mail

Mr. Christopher Tumbusch
Wright-Patterson Air Force Base
1450 Littrell Road
WPAFB, OH 45433-5209

Facility ID: 0829700441
Permit Number: P0092038
County: Greene

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

Dear Permit Holder:

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

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

and Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified if a public hearing is scheduled. A decision on processing the Title V permit will be made after consideration of comments received and oral testimony if a public hearing is conducted. You will then be provided with a Preliminary Proposed Title V permit and another opportunity to comment prior to the 45-day Proposed Title V permit submittal to U.S. EPA Region 5. The permit will be issued final after U.S. EPA review is completed and no objections to the final issuance have been received. If you have any questions, please contact Regional Air Pollution Control Agency at (937)225-4435.

Sincerely,

A handwritten signature in cursive script that reads "Michael E. Hopkins".

Michael E. Hopkins, P.E.
Assistant Chief, Permitting Section, DAPC

Cc: U.S. EPA Region 5 - *Via E-Mail Notification*
RAPCA; Indiana; Kentucky

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: <http://epa.ohio.gov/actions.aspx> or Hearing Clerk, Ohio EPA, 50 W. Town St., Columbus, Ohio 43215. Ph: 614-644-2129 email: HClerk@epa.ohio.gov

Draft Title V Permit Renewal

Wright-Patterson Air Force Base

88 ABW/CEVY, 1450 Littrell Road - Bldg 22, Wright-Patterson AFB, OH 45433-5209

ID#: P0092038

Date of Action: 7/20/2016

Permit Desc: Title V Permit Renewal for Wright-Patterson Air Force Base. The significant emissions units consists two central heating plants with seven large natural gas-fired boilers. Additional emissions units include smaller natural gas-fired boilers or process heaters, metal coating operations associated with aircraft maintenance and numerous diesel fired emergency generators and other insignificant emissions units..

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: epa.ohio.gov/dapc/permit by entering the permit # or: Andrew Weisman, Regional Air Pollution Control Agency, 117 South Main Street, Dayton, OH 45422-1280. Ph: (937)225-4435



Statement of Basis
 Wright-Patterson Air Force Base
Permit Number: P0092038
Facility ID: 0829700441

Statement of Basis For Air Pollution Title V Permit

Facility ID:	0829700441
Facility Name:	Wright-Patterson Air Force Base
Facility Description:	national security
Facility Address:	88 ABW/CEVY, Wright-Patterson AFB, OH 45433-5209
Permit #:	P0092038, Renewal
This facility is subject to Title V because it is major for: <input type="checkbox"/> Lead <input type="checkbox"/> Sulfur Dioxide <input checked="" type="checkbox"/> Carbon Monoxide <input checked="" type="checkbox"/> Volatile Organic Compounds <input checked="" type="checkbox"/> Nitrogen Oxides <input checked="" type="checkbox"/> Particulate Matter ≤ 10 microns <input checked="" type="checkbox"/> Single Hazardous Air Pollutant <input checked="" type="checkbox"/> Combined Hazardous Air Pollutants <input type="checkbox"/> Maximum Available Control Technology Standard(s) <input checked="" type="checkbox"/> GHG <input type="checkbox"/> Title IV	

A. Standard Terms and Conditions

Has each insignificant emissions unit been reviewed to confirm it meets the definition in OAC rule 3745-77-01(U)?	YES
Were there any "common control" issues associated with this facility? If yes, provide a summary of those issues and explain how the DAPC decided to resolve them.	NO
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a minor permit modification per OAC rule 3745-77-08(C)(1)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief	N/A



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description of any changes to the permit document that qualify as a significant permit modification per OAC rule 3745-77-08(C)(3)	
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document that qualify as a reopening per OAC rule 3745-77-08(D)	N/A
Please identify the affected unit(s) and associated PTI, if applicable, along with a brief description of any changes to the permit document resulting from a renewal per OAC rule 3745-77-08(E)	<p>PTI 08-04919 initial installation permit for P 376, bench scale fuel research operation.</p> <p>PTI P0108291, Ch. 31 mod issued 7/19/11 to establish Subpart DDDD limited use burner restrictions for EU B312.</p> <p>PTI P0112688 PTI admin mod, issued to establish "Unit designed to burn gas 1 subcategory" definition in a federally enforceable permit for dual fuel fired boilers B113, B604, B605, and B660.</p> <p>PTI P0113525 issued for repowering of central heating points (EUs B307-B311 and B606-B610) from coal to natural gas., PTI P0119472 Ch. 31 mod to remove GHG emissions from central heating plan repowering PTI. EU's B311, B657 are coal fired units that have been shut down; EUs L306, L307 and N303 have been shut down.</p>
Please identify the affected unit(s) and pollutant(s) for which a Compliance Assurance Monitoring (CAM) Plan is required per 40 CFR 64. Provide more emissions unit specific detail in Section C.	N/A

B. Facility-Wide Terms and Conditions

Term and Condition (paragraph)	Basis		Comments
	SIP (3745-)	Other	
1.			Place holder for state only applicable requirements.
2.		40 CFR Part 63 Subpart DDDDD	Identifies applicable requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial/Commercial/Institutional Boilers and Process Heaters. The following emissios units are subject to the rule: B113, B118, B302, B307, B308, B309, B310, B312, B355, B604, B605, B607, B608, B609 and B660. All emissions units must comply with the requirements for the "unit designed to burn gas 1 subcategory"
3.		40 CFR Part 63 Subpart	Identifies applicable requirements of NESHAP for Major Sources: Aerospace Manufacturing and Rework Facilities.



		GG	
4.		40 CFR Part 63 Subpart ZZZZ	Identifies applicable requirements of NESHAP for Reciprocating Internal Combustion Engines (RICE).
5.a)		40 CFR Part 63 Subpart MMMM	40 CFR 63.3881(c)(4) – the requirements of this rule do not apply to military installations owned and operated by the Armed Forces of the United States.
5.b)		40 CFR Part 63 Subpart PPPP	40 CFR 63.4481(c)(3) - the requirements of this rule do not apply to military installations owned and operated by the Armed Forces of the United States.
5.c)		40 CFR Part 63 Subpart HHHHHH	40 CFR 63.11169(d)(1) - the requirements of this rule do not apply to military installations owned and operated by the Armed Forces of the United States.
6.			Listing of insignificant emissions units with applicable requirements.

C. Emissions Unit Terms and Conditions

<p>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?</p>	<p>R = record keeping requirements Rp = reporting requirements ET = emission testing requirements (not including compliance method terms) St = streamlining term used to replace a PTI monitoring, record keeping, or reporting requirement with an equivalent or more stringent requirement Misc = miscellaneous requirements</p>
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Statement of Basis
 Wright-Patterson Air Force Base
Permit Number: P0092038
Facility ID: 0829700441

EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B113 B118 B302 B307 B308 B309 B310 B315 B355 B604 B605 B606 B607 B608 B609 B660	20% Opacity as a six minute average	17-07(A)		N	N	Y	N	Y	Y	Y	N	N	ET- Opacity measurements in accordance with OAC rule 3745-17-03(B)(1) and U.S. EPA Reference Method 9 upon request.
B113 B118 B302 B307 B308 B309 B310 B312 B355 B604 B605 B607 B608 B609 B660	0.020 pound PE/ million Btu	17-10 (B)(1)		N	N	Y	N	Y	Y	Y	N	N	ET- PE measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5 upon request.
B315	0.04 pound PE/ million Btu heat input	17-11 (B)(4)		N	N	Y	N	Y	Y	Y	N	N	ET- PE measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5 upon request.
B315	0.5 lb SO2/ million Btu heat input	18-06(F)		N	Y	Y	N	Y	Y	Y	N	N	OR – sulfur content of fuel burned must be sufficient to meet SO2 emissions limitation uncontrolled. ET- SO2 measurements in accordance with U.S. EPA Reference Methods 1 through 4 and 6 upon request.
B312	PE – 0.48 TPY;	31-05 (A)(3)		N	Y	Y	N	Y	Y	Y	N	N	The hourly emissions limitations are reflective of the potential to emit for this emissions unit. Therefore it is not necessary to develop record keeping, and

EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
	NOx – 5.50 lbs/hour and 2.41 TPY; CO – 4.62 lbs/hour and 2.02 TPY; 10% opacity as a 6 minute average												reporting to ensure compliance. OR – 876 hours of operation per year and fuel is restricted to natural gas only. ET- Stack testing and/or opacity measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 4, 5, 6,7, or 10 upon request.
B312	Natural gas fuel only and 876 hours per year	31-05 (D)	40 CFR 63.7575	N	Y	Y	N	Y	Y	Y	N	N	By limiting the hours of operation to less than 876 hours per rolling 12-month period in a federally enforceable permit, this emissions unit is a limited use process heater as identified in 40 CFR 63.7575
B315	NOx – 2,039 lbs/ week and 10.2 TPY; VOC – 350 lbs/week and 1.75 TPY CO – 2,100 lbs/ week and 10.5 TPY.	31-05 (A)(3)	N	N	N	Y	N	Y	Y	Y	N	N	ET- Emissions measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 4, 6,7, 10 or 25 upon request.
F001	N/A	17-08		Y	N	N	N	N	N	N	N	N	ND – This emissions unit is exempt from the visible emissions limitations for fugitive dust, specified in OAC rule 3745-17-07(B), pursuant to OAC rule 3745-17-07(B) (11)(e), because the emissions unit is not located within areas identified in "Appendix A" of OAC rule 3745-17-08.
K601	VOC – 47.0 lbs/day excluding cleanup, 7.0 TPY including cleanup	31-05 (A)(3)		N	Y	Y	N	Y	Y	N	Y	N	OR – Volume of coating materials applied shall not exceed 8 gallons per day. ET - Emissions limit assumes that all VOC applied is emitted. St – The 47.0 lbs/day and 7.0 TPY VOC emissions limitations are more stringent than PTI 08-2870 (95.9 lbs/day; 12.42 TPY). St – Water wash control for particulate replaced by dry filtration (January 30, 2008)
K607	VOC – 49.6 lbs/day excluding cleanup, 7.0 TPY	31-05 (A)(3)		N	Y	Y	N	Y	Y	N	N	N	OR – Volume of coating and cleanup materials applied shall not exceed 7 gallons per day. ET- Emissions limit assumes that all VOC applied is released.



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EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
	including cleanup												
K617	VOC – 39.2 lbs/day, 3.78 TPY including cleanup	31-05 (A)(3)		N	Y	Y	N	Y	Y	N	N	N	OR – Coatings use shall not exceed 8 gallons/day. ET – Coating usage limitation no emissions testing is necessary.
K601 K607 K608 K609 K610 K617	Coatings use shall not exceed 8 gallons/ day	21-09 (U)(2) (e)(i)		N	Y	Y	N	Y	Y	N	N	N	OR – Coatings use shall not exceed 8 gallons/day. ET – Coating usage limitation no emissions testing is necessary.
K601 K607 K617	Use of dry filter to control overspray	17-11 (C)		N	Y	Y	N	Y	Y	N	N	N	OR – Must use dry filtration or water curtain to control paint overspray.
P310	PE – 36.3 lbs/hour; NOx –123 lbs/hour; SO ₂ –0.73 lb/hour; CO – 134 lbs/hour; VOC- 122 lbs/hour	31-05 (A)(3)		N	N	Y	N	Y	Y	Y	Y	N	ET – Emissions are based on engine test data supplied by the U.S. Air Force.
P310	PE –3.89 TPY; NOx – 11.29 TPY; SO ₂ – 0.08 TPY; CO – 14.6 TPY; VOC- 13.51 TPY	31-05 (D)		N	Y	Y	N	Y	Y	Y	Y	N	OR – Fuel usage in this EU shall not exceed 300,000 gallons of JP-8 per rolling 12-month period. OR – The sulfur content of the JP-8 fuel used in this emissions unit shall not exceed 3,000 ppm by weight. St – The emission factors used to calculate emissions for this emissions unit are more stringent than the emissions units used in PTI 08-2744.
P310	Exempt	17-07(A)		Y	N	N	N	N	N	N	N	N	ND – Jet engine test cells are exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h).
P310	Exempt	17-11		Y	N	N	N	N	N	N	N	N	ND - Jet engine test cells are exempt from the PE limitations specified in OAC



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EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
													rule 3745-17-11, pursuant to OAC rule 3745-17-11(A)(1)(m).
P310	Exempt		40 CFR Part 63, Subpart P P P P P	Y	N	N	N	N	N	N	N	N	Emissions unit is an existing affected source as defined in 40 CFR 63.9290(a)(1). Existing affected sources do not have to meet the requirements of this subpart and 40 CFR Part 63, subpart A according to 40 CFR 63.9290(b).
P376	CO – 328 lbs/day and 59.9 TPY; VOC 82.8 lbs/day and 15.1 TPY			N	N	Y	N	Y	Y	N	N	N	ET - Emissions are based on process modelling data supplied by the U.S. Air Force and Idaho National Laboratories.
B113	PE – 0.335 lbs/hour and 1.47 TPY; NOx – 0.84 lbs/hour and 3.67 TPY; SO ₂ – 0.01 lbs/hour 0.04 TPY; CO – 1.41 lbs/hour and 6.18 TPY; VOC- 0.10 lb/hour and 0.40 TPY	31-05 (A)(3)		N	Y	Y	N	Y	N	Y	N	N	The hourly emissions limitations are reflective of the potential to emit for this emissions unit. Therefore it is not necessary to develop record keeping, and reporting to ensure compliance. OR – Fuel use is restricted to natural gas. ET- Stack testing and/or Opacity measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 4, 5, 7, or 10 upon request.
B118	PE – 0.27 lbs/hour and 0.93 TPY; NOx – 0.84 lbs/hour and 2.25 TPY; SO ₂ – 0.01 lbs/hour 0.03 TPY; CO – 1.41 lbs/hour and 3.78 TPY; VOC- 0.10 lb/hour and 0.26 TPY	31-05 (A)(3)		N	Y	Y	N	Y	N	Y	N	N	The hourly emissions limitations are reflective of the potential to emit for this emissions unit. Therefore it is not necessary to develop record keeping, and reporting to ensure compliance. OR – Fuel use is restricted to natural gas. OR – Natural gas consumption shall not exceed 90 million cubic feet per year. ET- Stack testing and/or Opacity measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 4, 5, 7, or 10 upon request.



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EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B302 B355	PE – 0.04 lbs/hour and 0.17 TPY; NOx – 2.09 lbs/hour and 9.16 TPY; SO ₂ – 0.013 lbs/hour 0.055 TPY; CO – 1.76 lbs/hour and 7.71 TPY; VOC- 0.12 lb/hour and 0.53 TPY	31-05 (A)(3)		N	Y	Y	N	Y	Y	Y	N	N	The hourly emissions limitations are reflective of the potential to emit for this emissions unit. Therefore it is not necessary to develop record keeping, and reporting to ensure compliance. OR – Fuel use is restricted to natural gas. ET- Stack testing and/or Opacity measurements in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 4, 5, 7, or 10 upon request.
B307 B308 B309 B310 B607 B608 B609	0.10 lb NOx/ MMBtu 0.10 lb CO/ MMBtu	31-05 (A)(3)		N	Y	Y	N	Y	Y	Y	N	N	OR - Fuel use is restricted to natural gas. ET – recurring annual or 30-month testing for NOx and CO according to U.S. EPA Reference Methods 1 through 4, 7 and 10.
B307 B308	PE – 3.25 tons/rolling 12-months SO ₂ – 0.26 ton/rolling 12-months VOC – 2.33 tons/rolling 12-months	31-05 (A)(3)		Y	N	Y	N	Y	Y	N	N	N	ND - Emissions limitation apply until OAC rule 3745-31-05(A)(3)(a)(ii) is approved as part of the SIP. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B309 B310	PE – 5.63 tons/rolling 12-months SO ₂ – 0.44 ton/rolling 12-months VOC – 4.07 tons/rolling 12-months	31-05 (A)(3)		Y	N	Y	N	Y	Y	N	N	N	ND - Emissions limitation apply until OAC rule 3745-31-05(A)(3)(a)(ii) is approved as part of the SIP. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B307	None	31-05		Y	N	N	N	N	N	N	N	N	The requirements of this rule apply once U.S. EPA approves OAC paragraph



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EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B308 B309 B310		(A)(3)(ii)											3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
B307 B308 B309 B310	NOx – 100.0 tons/rolling 12 months; CO - 100.0 tons/rolling 12 months; PE – 7.60 tons/rolling 12 months;	31-05(D)		N	Y	Y	N	Y	Y	N	N	N	Emissions Limitations are combined for the group of four EUs. OR - Fuel use is restricted to natural gas and oxygen trim system. OR – Combined natural gas consumption not to exceed 2,000 MMscf on a rolling 12-month basis. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B607 B608	PE – 5.63 tons/rolling 12-months SO2 – 0.44 ton/rolling 12-months VOC – 4.07 tons/rolling 12-months	31-05 (A)(3)		Y	N	Y	N	Y	Y	N	N	N	ND - Emissions limitation apply until OAC rule 3745-31-05(A)(3)(a)(ii) is approved as part of the SIP. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B609	PE – 3.32 tons/rolling 12-months SO2 – 0.26 ton/rolling 12-months VOC – 2.40 tons/rolling 12-months	31-05 (A)(3)		Y	N	Y	N	Y	Y	N	N	N	ND - Emissions limitation apply until OAC rule 3745-31-05(A)(3)(a)(ii) is approved as part of the SIP. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B607 B608 B609	None	31-05 (A)(3)(ii)		Y	N	N	N	N	N	N	N	N	The requirements of this rule apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP.
B607 B608	NOx – 120.0 tons/	31-05(D)		N	Y	Y	N	Y	Y	N	N	N	Emissions Limitations are combined for the group of four EUs. OR - Fuel use is restricted to natural gas and oxygen trim system. OR – Combined natural gas consumption not to exceed 2,400 MMscf on a



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EU(s)	Limitation	Basis		ND	OR	M	ENF	R	Rp	ET	St	Misc	Comments
		SIP (3745-)	Other										
B609	rolling 12 months; CO - 120.0 tons/ rolling 12 months; PE – 9.12 tons/ rolling 12 months;												rolling 12-month basis. ET – Rolling 12-month emissions limitation, compliance is based fuel consumption records.
B604 B605	PE - 0.61 TPY; SO2 0.02 TPY	31-05 (A)(3)		N	Y	Y	N	Y	Y	N	N	N	OR – Use only natural gas fuel OR – Annual operation not to exceed 3,696 hours/boiler.
B660	PE – 0.38 lb/hour and 1.24 TPY; NOx - 0.91 lb/hour and 2.98 TPY; SO ₂ - 0.01 lb/hour and 0.04 TPY; CO – 1.53 lbs/hour and 5.01 TPY; VOC- 0.11 lb/hour and 0.35 TPY	31-05 (A)(3)		N	Y	Y	N	Y	Y	Y	N	N	The hourly emissions limitations are reflective of the potential to emit for this emissions unit. Therefore it is not necessary to develop record keeping, and reporting to ensure compliance. OR – Natural gas is the only fuel for the emissions unit. Annual operating hours for each boiler shall not exceed 6,552 hours. ET- Stack testing in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5, 6, 7, 10 25 upon request.
B307 B308 B309 B310 B607 B608 B609	0.60 pound per hour hexane	114-01		N	N	Y	N	Y	Y	N	N	N	Compliance with the Ohio EPA air toxics standards is only state enforceable. St – Emissions limitation is based design evaluation.
B307 B308 B309 B310 B607	None		NSPS Dc	N	N	N	N	N	N	N	N	N	Emissions units are steam generating units as defined in 40 CFR 60.41, however, there are no standards for units that only burn natural gas.



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		SIP (3745-)	Other										
B608 B609													
K608 K609 K610	VOC – 160 pounds/month and 1.0 TPY	31-05 (A)(3)		Y	Y	Y	N	Y	Y	N	N	N	ND - According to OAC rule 3745-17-11(A)(1)(i), surface coating processes that use less than five gallons of coatings per day are not subject to the particulate emissions limitations of OAC rule 3745-17-11(C). OR – The volume of coatings and cleanup materials applied combined in these emissions units shall not exceed 40 gallons/month. ET – Coating usage limitation no emissions testing is necessary.
K608 K609 K610	Use of dry filter to control overspray	17-11 (C)		Y	N	Y	N	Y	Y	N	N	N	ND –According to OAC rule 3745-17-11(A)(1)(i) surface coating processes the never use more than 5 gallons of coating per day are exempt from OAC rule 3745-17-11(C) These emissions units are used for touch up painting of large military aircraft and never use more than 5 gallons of coating per day.



DRAFT

**Division of Air Pollution Control
Title V Permit
for
Wright-Patterson Air Force Base**

Facility ID:	0829700441
Permit Number:	P0092038
Permit Type:	Renewal
Issued:	7/20/2016
Effective:	To be entered upon final issuance
Expiration:	To be entered upon final issuance



Division of Air Pollution Control
Title V Permit
for
Wright-Patterson Air Force Base

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14. Emissions Unit Group -Flightline Aircraft Paint Repair: K608,K609,K610,.....	118



Draft Title V Permit
Wright-Patterson Air Force Base
Permit Number: P0092038
Facility ID: 0829700441
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0829700441
Facility Description: national security
Application Number(s): A0023457, A0047520, A0055303
Permit Number: P0092038
Permit Description: Title V Permit Renewal for Wright-Patterson Air Force Base. The significant emissions units consists two central heating plants with seven large natural gas-fired boilers. Additional emissions units include smaller natural gas-fired boilers or process heaters, metal coating operations associated with aircraft maintenance and numerous diesel fired emergency generators and other insignificant emissions units.
Permit Type: Renewal
Issue Date: 7/20/2016
Effective Date: To be entered upon final issuance
Expiration Date: To be entered upon final issuance
Superseded Permit Number: P0092037

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

Wright-Patterson Air Force Base
88 ABW/CEVY
1450 Littrell Road - Bldg 22
Wright-Patterson AFB, OH 45433-5209

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

Regional Air Pollution Control Agency
117 South Main Street
Dayton, OH 45422-1280
(937)225-4435

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 Regional Air Pollution Control Agency. 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

Craig W. Butler
Director



Draft Title V Permit
Wright-Patterson Air Force Base
Permit Number: P0092038
Facility ID: 0829700441
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions

1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
- (1) Standard Term and Condition A. 24., Reporting Requirements Related to Monitoring and Record Keeping Requirements of State-Only Enforceable Permit Terms and Conditions
 - (2) Standard Term and Condition A. 25., Records Retention Requirements for State-Only Enforceable Permit Terms and Conditions
 - (3) Standard Term and Condition A. 27., Scheduled Maintenance/Malfunction Reporting For State-Only Requirements
 - (4) Standard Term and Condition A. 29., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (5) Standard Term and Condition A. 30.

(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 Regional Air Pollution Control Agency. 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.19, A.20, A.21, and A.23 of this Title V permit, as well as any deviations from the requirements in section C. Emissions Unit Terms and Conditions of this Title V permit, and any monitoring, record keeping, and reporting requirements, which are not reported in accordance with Standard Term and Condition A.2.c)(2) above shall be submitted to the Regional Air Pollution Control Agency by January 31 and July 31 of each year; and each report shall cover the previous six calendar months. Unless otherwise specified by rule, all other deviations from federally enforceable requirements identified in this permit shall be submitted annually as part of the annual compliance certification, including deviations of federally

enforceable requirements not specifically addressed by permit or rule for the insignificant activities or emissions levels (IEU) identified in section B. Facility-Wide Terms and Conditions of this Title V permit. Annual reporting of deviations is deemed adequate to meet the deviation reporting requirements for IEUs unless otherwise specified by permit or rule.

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

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

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

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

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

- (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 Regional Air Pollution Control Agency unless otherwise specified.

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

3. Reporting of Any Exceedence 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(W) based on the permanent shutdown and removal of one or more emissions units identified in this permit; or
 - (2) the permittee no longer meets the definition of a "major source" as defined in OAC rule 3745-77-01(W) based on obtaining restrictions on the facility-wide potential(s) to emit that are federally enforceable or legally and practically enforceable ; or
 - (3) a combination of (1) and (2) above.

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

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

8. Fees

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

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

9. Marketable Permit Programs

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

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

10. Reasonably Anticipated Operating Scenarios

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

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

11. Reopening for Cause

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

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

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

12. Federal and State Enforceability

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

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

13. Compliance Requirements

- a) Any document (including reports) required to be submitted and required by a federally applicable requirement in this Title V permit shall include a certification by a Responsible

Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete.

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
- (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with paragraph (E) of OAC rule 3745-77-03.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Regional Air Pollution Control Agency concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
- (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.
- d) Compliance certifications concerning the terms and conditions contained in this permit that are federally enforceable emission limitations, standards, or work practices, shall be submitted to the Director (the Regional Air Pollution Control Agency) and the Administrator of the U.S. EPA in the following manner and with the following content:
- (1) Compliance certifications shall be submitted annually on a calendar year basis. The annual certification shall be submitted 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 [as defined in OAC rule 3745-77-01(JJ)], and does not result in an exceedance of the emissions allowed under this permit (whether expressed therein as a rate of emissions or in terms of total emissions), and the permittee provides the Administrator of the U.S. EPA and the Regional Air Pollution Control Agency with written notification within a minimum of seven days in advance of the proposed changes, unless the change is associated with, or in response to, emergency conditions. If less than seven days notice is provided because of a need to respond more quickly to such emergency conditions, the permittee shall provide notice to the Administrator of the U.S. EPA and the Regional Air Pollution Control Agency as soon as possible after learning of the need to make the change. The notification shall contain the items required under OAC rule 3745-77-07(H)(2)(d).

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

16. Emergencies

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

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

17. Off-Permit Changes

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

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

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

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

18. Compliance Method Requirements

Nothing in this permit shall alter or affect the ability of any person to establish compliance with, or a violation of, any applicable requirement through the use of credible evidence to the extent authorized by law. Nothing in this permit shall be construed to waive any defenses otherwise available to the permittee, including but not limited to, any challenge to the Credible Evidence Rule (see 62 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(O)), rendering existing permit terms and conditions irrelevant, the permittee shall not be required, after the date of the certification and submission to Ohio EPA, to meet any Title V permit requirements applicable to that emissions unit, except for any residual requirements, such as the quarterly deviation reports, semi-annual deviation reports and annual compliance certification covering the period during which the emissions unit last operated. All records relating to the shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law.

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 Regional Air Pollution Control Agency.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (i) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and record keeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Regional Air Pollution Control Agency. In identifying each deviation, the permittee shall specify the applicable requirement for which the deviation occurred, describe each deviation, and provide the magnitude and duration of each deviation. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted 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 Regional Air Pollution Control Agency in accordance with paragraph (B) of OAC rule 3745-15-06. Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emissions unit(s) that is (are) served by such control system(s).

28. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The Regional Air Pollution Control Agency must be notified in writing of any transfer of this permit.

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

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

If no emission limitation (or control requirement), operational restriction and/or control device parameter limitation deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted 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.



Draft Title V Permit
Wright-Patterson Air Force Base
Permit Number: P0092038
Facility ID: 0829700441

Effective Date: To be entered upon final issuance

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 Regional Air Pollution Control Agency, 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.



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B. Facility-Wide Terms and Conditions



Effective Date: To be entered upon final issuance

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. This facility is subject to 40 CFR Part 63, Subpart DDDDD, National Emission Standards for Hazardous Air Pollutants (NESHAP) for Major Sources: Industrial/Commercial/Institutional Boilers and Process Heaters upon promulgation. On May 16, 2011, U.S. EPA decided to stay 40 CFR Part 63, Subpart DDDDD. This delay of effectiveness will remain in place until the proceedings for judicial review are completed or U.S. EPA completes its reconsideration of the rules, whichever is earlier, and the Agency publishes a notice in the Federal Register announcing that the rules are in effect.

The following emissions units are subject to the requirements of this rule: B113, B118, B302, B307, B308, B309, B310, B312, B355, B604, B605, B607, B608, B609 and B660.

As defined in 40 CFR Part 63.7575 the “Unit designed to burn gas 1 subcategory” includes any boiler or process heater that burns only natural gas, refinery gas, and/or other gas 1 fuels; with the exception of liquid fuels burned for periodic testing not to exceed a combined total of 48 hours during any calendar year, or during periods of gas curtailment and gas supply emergencies.

Emissions units B113, B118, B302, B307, B308, B309, B310, B355, B604, B605, and B660 only use natural as fuel and must comply with the requirements for the “unit designed to burn gas 1 subcategory” as identified in the table below by January 31, 2016.

Emissions units B607, B608, and B609 only use natural gas fuel and must comply with the Boiler MACT requirements in the table below before January 31, 2017*.

In addition to using only natural gas fuel, emissions unit B312 has also established operational restrictions as part of PTI P0108291 to establish “limited-use process heater” status as defined in 40 CFR 63.7575.

40 CFR 63.7490(a) through (d)	Affected source
40 CFR 63.7495	Compliance dates
40 CFR 63.7499	List of Subcategories
40 CFR 63.7500(c), (e) and Table 3	Work practice standards
40 CFR 63.7515(d)	Timing of work practice standards
40 CFR 63.7525(k)	Monitoring for limited-use boilers and process heaters
40 CFR 63.7530 (e) and (f)	Initial compliance demonstrations – energy assessment
40 CFR 63.7540(a)(10) through (a)(13)	Continuous compliance with work practice standards – boiler tune-ups
40 CFR 63.7545(a) through (c) and (e)(8)	Notification requirements
40 CFR 63.7550(a) through (c) and Table 9	Reporting requirements
40 CFR 63.7555(a)(1) through (3) and (h)	Recordkeeping requirements
40 CFR 63.7560	Records form and retention
40 CFR 63.7565 and Table 10	Applicable General provisions
40 CFR 63.7575	Definitions



Effective Date: To be entered upon final issuance

* Wright Patterson Air Force Base (WPAFB) was granted a compliance deadline extension by Ohio EPA on September 9, 2015 for emissions units B607 and B608. This extension allowed for conversion of emissions units B607 and B608 from coal to natural gas fuel by January 31, 2017.

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

3. This facility is subject to 40 CFR Part 63, Subpart GG: NESHAP for Major Sources: Aerospace Manufacturing and Rework Facilities. Emissions units K608, K609, K610 and K617 are subject to the NESHAP and must meet the following requirements:

63.741	Applicability
63.742	definitions
63.743	Standards – Applicability of General Requirements, 40 CFR Part 63 Subpart A
63.744(a)	Housekeeping measures
63.744(b)	Hand-wipe cleaning requirements
63.744(c)	Spray gun cleaning requirements
63.745(a)	Standards – Primer and topcoat application
63.745(b)	Primer and topcoat handling and transfer
63.745(c)	Standards for uncontrolled coatings
63.745(e)	Compliance methods for VOC and HAP content
63.745(f)	Application equipment
63.745(g)	Inorganic HAP control measures
63.745(g)(4)	Exemptions from dry filtration and water wash requirements
63.748	Handling and storage of waste
63.749(a)	Compliance dates
63.749(c)	Compliance determinations for cleaning operations
63.749(d)(1)	Primer and topcoat organic HAP and VOC content
63.749(d)(3)(i)	Compliance determinations for uncontrolled primer application
63.749(d)(4)(i)	Compliance determinations for uncontrolled topcoat application
63.750(a)	Hand wipe solvent composition determination
63.750(b)	Hand wipe cleaning solvent vapor pressure determination
63.750(c)	Organic HAP content determination for uncontrolled primer and topcoat application
63.750(d)	Average organic HAP content determination for uncontrolled primer and topcoat application
63.750(e)	VOC content determination for uncontrolled primer and topcoat application
63.750(f)	Average VOC content determination for uncontrolled primer and topcoat application
63.750(o)	Inorganic HAP emissions, dry particulate filter certification requirements
63.751(a)	Enclosed spray gun cleaner monitoring requirements
63.751(d)	Dry particulate filter, primer, topcoat, and specialty coating application operations
63.752(a)	Record keeping general requirements
63.752(b)	Record keeping – cleaning operations
63.752(c)	Record keeping – primer and topcoat organic HAP and VOC
63.752(d)	Record keeping –primer and topcoat inorganic HAP
63.753(a)	Reporting – general requirements
63.753(b)	Reporting – cleaning operations



63.753(c)	Reporting requirements – primer and topcoat application
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4. This facility is subject to 40 CFR 63 Subpart ZZZZ - NESHAP for Reciprocating Internal Combustion Engines (RICE). According to 40 CFR 63.6590, 63.6600, 63.6602, and 63.6603 the compression ignition internal combustion engines (e.g., the diesel emergency generators on Base) fit into one of the following categories identified in the rule depending on its size, and/or age:
- a) exempt from the requirements of Subpart ZZZZ except for the initial notification in 63.6590(b)(1) (emergency stationary RICE constructed on or after December 19, 2002 with a site rating greater than 500 brake HP);
 - b) exempt from the requirements of Subpart ZZZZ in 63.6590(b)(3) (emergency stationary RICE constructed before December 19, 2002 with a site rating greater than 500 brake HP);
 - c) must meet the requirements of 40 CFR Part 60 Subpart IIII (emergency stationary RICE constructed on or after June 12, 2006 with a site rating less than or equal to 500 brake HP);
 - d) emergency stationary RICE constructed before June 12, 2006 with a site rating less than 500 brake HP must meet the following requirements;

63.6590(b)(1)(i), (b)(3)(iii) and (c)(6)	Affected sources
63.6595(a)(1)	Compliance date of 5/3/13.
63.6600(c)	Emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart
63.6602	existing stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, must comply with the emission limitations and other requirements in Table 2c #1 (inspection and maintenance requirements) of Part 63 Subpart ZZZZ.
63.6604(a) and (b)	Beginning January 1, 2015 use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel
63.6605	General compliance requirements.
63.6625(e)(2)	Operate & maintain RICE according to manufacturer's instructions or develop a facility maintenance plan for the RICE.
63.6625(f)	Install a non-resettable hour meter.
63.6625(h)	Minimize idle and startup time for new and reconstructed RICE, not to exceed 30 minutes.
63.6625(i)	Oil analysis program, option to extend the oil change frequency.
63.6635	Except for monitor malfunctions, associated repairs, and required quality assurance activities, must continuously monitor at all times the RICE is operating.
63.6640(a)	Demonstrate continuous compliance with the maintenance requirements identified in Table 2c according to the methods specified in #9 of Table 6 to Subpart ZZZZ.
63.6640(b)	Submit a report of each instance in which the operational requirements in Table 2c were not met; these deviations to be reported according to the requirements of 63.6650.



63.6640(e)	Emergency stationary RICE do not need to comply with the deviation reporting requirements of Table 8 to this subpart, except for the initial notification requirements.
63.6640(f)	Peak shaving requirements.
63.6645(a)(1)	Submit all notifications required per 63.7(b) and (c); 63.8(e), (f)(4), and (f)(6); and 63.9(b) through (e), (g), and (h) that apply to the CI RICE.
63.6645(f)	Initial notification requirements
63.6650(a)	Submit each applicable report in Table 7 of Subpart.
63.6650(b)	Compliance report schedule.
63.6650(c)	Compliance report content.
63.6650(d) and (e)	Deviation reporting.
63.6655(a)	Keep records of each notification and report submitted, malfunction and corrective action.
63.6655(d)	Keep the records required in #9 of Table 6 to Subpart ZZZZ to demonstrate continuous compliance.
63.6655(e)	Recordkeeping for maintenance and inspections.
63.6655(f)	Maintain records of the hours of operation.
63.6660	Records retention and availability.
63.6665	Applicable provisions of Subpart A, from Sections 63.1 through 63.15.

Any emissions unit listed in Sections B.6. that includes “emergency generator” or “fire suppression system” in the emissions unit description is subject to the requirements of 40 CFR Part 63, Subpart ZZZZ.

5. Wright Patterson Air Force Base (WPAFB) is a military installation owned and operated by the Department of the Air Force. The following subparts of 40 CFR Part 63 do not apply to installations owned or operated by the Armed Forces of the United States:
- e) Subpart MMMM - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Miscellaneous Metal Parts and Products. 40 CFR 63.3881(c)(4) - The surface coating of metal parts and products performed on-site at installations owned or operated by the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State) or the National Aeronautics and Space Administration, or the surface coating of military munitions manufactured by or for the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State).
 - f) Subpart PPPP - National Emission Standards for Hazardous Air Pollutants for Surface Coating of Plastic Parts and Products. 40 CFR 63.4481(c)(3) - The surface coating of plastic parts and products performed on-site at installations owned or operated by the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State) or the National Aeronautics and Space Administration, or the surface coating of military munitions manufactured by or for the Armed Forces of the United States (including the Coast Guard and the National Guard of any such State).
 - g) Subpart HHHHHH - Paint Stripping and Miscellaneous Surface Coating Operations at Area Sources. 40 CFR 63.11169(d)(1) - The surface coating or paint stripping performed on site at installations owned or operated by the Armed Forces of the United States (including the Coast

Guard and the National Guard of any such State), the National Aeronautics and Space Administration, or the National Nuclear Security Administration.

6. The following insignificant emissions units are located at this facility.

Area A Emissions Units

- a) The following emissions units are RICE subject to 40 CFR Part 63, Subpart ZZZZ:

B102 1750 kW Caterpillar emergency generator, Building 10271 (5024)
B103 1750 kW Caterpillar emergency generator, Building 10271 (5026)
B104 350 kW Cummins emergency generator, Building 10277 (5021)
B105 350 kW Cummins emergency generator, Building 10277 (5022)
B108 35 kW diesel fired emergency generator, Building 10280 (6472)
B111 2,500 kW EMD emergency generator, Building 10840 (2102)
B112 2,500 kW EMD emergency generator, Building 10840 (2103)
B115 100 kW John Deere emergency generator, Building 11456 (5027)
B125 Emergency generator, 450 kW Kohler, for air strippers, Building 10855 (6473)
B126 Emergency generator, 1500 kW diesel, Building 10856 (6500)
B127 Emergency generator; 2,000 kW; diesel fired; F/10829 (6896)
B128 Emergency generator; 2,000 kW; diesel fired; F/10829 (6895)
B131 Emergency generator, 600 kW; diesel-fired; F/10266
B132 Emergency generator; 505 kW; diesel-fired; F/10295
B133 emergency generator; 750 kW; F/10830
B134 emergency generator; 750 kW; F/10830
B135 Emergency generator; 400 kW; diesel-fired; F/31214
B136 Emergency generator; 2000 kW; diesel fired; F/10822
B627 650 kW emergency generator, Building 10858 (6289)
B610 62 kW portable John Deere emergency generator, Building 30017 (5013)
B612 62 kW portable John Deere emergency generator, Building 30017 (5015)
B627 Emergency generator; 650 kW; diesel-fired; F/10858
B629 150 kW emergency generator, Building 30110 (5010)
B630 400 kW emergency generator, Building 30117 (2354)
B631 100 kW emergency generator, Building 30142 (5094)
B632 900 kW emergency generator, Building 30143 (2119)
B639 150 kW emergency generator, Building 20080 (2042)
B641 100 kW emergency generator, Building 30851 (2106)
B643 95 kW emergency generator, Building 30962 (5097)
B645 55 kW emergency generator, Building 34010 (5101)
B649 180 kW emergency generator, Building 34052 (5051)
B670 emergency generator, 400 kW Detroit Diesel, Building 30259 (6404)
B671 emergency generator, 300 kW Detroit Diesel, Building 30149 (6657)
B676 emergency generator, 1500 kW diesel, Caterpillar, Building 31240 (6088)
B699 232 hp fire suppression system, Cummins diesel engine; F/30172 (5111)
B700 232 hp fire suppression system, Cummins diesel engine; F/30172 (5110)
B701 232 hp fire suppression system, Cummins diesel engine; F/30172 (2371)
B702 Emergency generator 205 kW; F/30017 (6338)
B703 Emergency generator 110 kW; F/30017 (6339)

- B704 Emergency generator 62 kW; F/30017 (6340)
- B707 Emergency generator 40 kW; F/30001 (6353)
- B708 Emergency generator, 300 kW; F/30206 (6354)
- B710 emergency generator, 400 kW; F/30146 (6656)
- B711 emergency generator, 610kW Kohler w/ 2,000-gal diesel tank; F/30103 (6691)
- B712 emergency generator 240kW Volvo; F/34019 (6692)
- B715 emergency generator, 75kW Perkins; F/34008 (6355)
- B716 fire suppression system, Cummins diesel engine; F/34024 (6884)
- B717 Emergency generator, 350 kw, Building 30172, (6651)
- B718 62 kW emergency generator, Building 34012 (6362)
- B719 750 kW diesel emergency generator, Building 30031 (5532)
- B720 Emergency generator; 300 kW; diesel-fired; Building 30031 (5605)
- B721 150 kW emergency generator, Building 30018 (5049)
- B722 Emergency generator, 300 kW Building 20462 (7047)

b) The following emissions units are not RICE.

- B628 Diesel powered mobile arc and TIG welders, Building 30060 (5168)
- G304 Fuel dispensing facility AGE equipment, Building 30093 (2464) (PTI-08-1702)
- G601 Gasoline dispensing facility Area C military station, Building 30060 (5521) (PBR)
- G605 Fuel dispensing facility, Building 34021 (2269)(PTI 08-1915)
- G608 Gasoline dispensing facility, pavements and grounds, Building 30029 (6087)
- G609 E-85 fuel tank and dispenser, Building 30029 (6862)(PBR)
- G610 KittyHawk AAFES Service Station, Building 31253, (6439) (PBR)
- K611 Paint spray booth, Building 30022 (5504)(PTI 08-3483)
- L101 Graymills degreaser cold cleaner, Building 10840 (5060)
- L605 cold cleaner, Selig 45 gallon solvent tank w/ PD-680, type III, Building 34026 (4000)
- L606 cold cleaner, Sales Co. 20 gallon solvent tank w/ PD-680, type III, Building 34026 (4001)
- L607 cold cleaner, 5 gal; Solvent 142; F/30901 (5202)
- L609 hand-wipe cleaning of aerospace components; Flightline, F/30000 (6543)
- L612 paint gun cleaner, Verdi Gun Washer 2,000 (5 gal tank, T-210 Thinner); F/30093 (6580)
- L613 Inland Technology parts washer, 80 gal, PD-680; F/30093 (6581)
- L614 cold cleaner, Build All; Tekusolv II Red; F/31240 (6586)
- L617 paint gun cleaner (polyurethane thinner); F/34024 (6694)
- L618 cold cleaner; F/30023 (6772)
- L619 25 gal purge tank (PD-680 type III); F/34007 (6793)
- L620 120 gal tank for NDI shop (PD-680 type III); F/34024 (6794)
- L621 15 ft² area tank (PD-680 type III); F/34015 (6696)
- L623 handwipe cleaning of aerospace components; F/34026 (6868)
- L627 Cold cleaner, Building 30013 (6686)
- L628 Safety-Kleen cold cleaner, Building 30060 (5539)
- L629 Degreaser, Building 30148 (5176)
- L630 Cold cleaner, Building 30151 (2207)
- L631 Degreaser, Building 30153 (5125)
- L632 30 gallon degreaser, Building 30894 (5188)
- L633 Cold cleaner degreaser, Building 30901 (5203)
- L634 Solvent cold cleaner, Building 31240 (2063)
- L635 Cold cleaner, Building 31240 (5201)
- L636 cold cleaner, Selig 80 gallon solvent tank w/ PD-680, type III, Building 34026 (6601)

- P611 Fire and rescue training, Building 34091 (2642)
- P612 Woodworking shop skills development center, Building 30095 (2318)
- P619 Hand-wipe cleaning, Building 34007 (6319)
- P624 Hand-wipe cleaning, Building 34026 (6066)
- P625 Hand-wipe cleaning, Building 34015 (6323)
- P634 Hand-wipe cleaning of aerospace components (sheet metal); F/34024 (6051)
- P639 paint spray gun cleaner, Verdi Industries Gun washer 2,000, 34024 (6901)
- T624 420,000 gallon JP-8 storage tank A252, Building 30154 (2522)
- T625 420,000 gallon JP-8 storage tank A255, Building 30154 (2508)
- T626 420,000 gallon JP-8 storage tank A254, Building 30154 (2305)
- T627 420,000 gallon JP-8 storage tank A249, Building 30154 (2294)
- T628 420,000 gallon JP-8 storage tank A251, Building 30154 (2293)
- T629 420,000 gallon JP-8 storage tank A250, Building 30154 (2509)
- T630 420,000 gallon JP-8 storage tank A256, Building 30154 (2524)
- T631 15,000 gallon Mogas storage tank A310, Building 30154 (2297)
- T632 840,000 gallon JP-8 storage tank A271, Building 30154 (2295)
- T633 210,000 gallon DL-2 storage tank A272, Building 30154 (2296)
- T635 420,000 gallon JP-8 storage tank A258, Building 30154 (2527)
- T636 420,000 gallon JP-8 storage tank A253, Building 30154 (2803)
- T637 420,000 gallon JP-8 storage tank A257, Building 30154 (2526)
- T663 50,000 gallon JP-8 storage tank 283, Building 34032 (2516)
- T669 50,000 gallon JP-8 storage tank 284, Building 34032 (2517)
- T670 50,000 gallon JP-8 storage tank 285, Building 34032 (2518)
- T671 50,000 gallon JP-8 storage tank 286, Building 34032 (2519)

Area B Emissions Units

c) The following emissions units are RICE subject to 40 CFR Part 63, Subpart ZZZZ:

- B304 300 kW diesel fired emergency generator, Building 20557 (5973)
- B313 200 kW emergency generator, Building 20015 (2351)
- B336 335 kW research and development generator, Building 20071B (5352)
- B339 275 kW emergency generator, Building 20837 (5931)
- B341 55 kW diesel emergency generator, Building 20490 (5260)
- B342 200 kW emergency generator, Building 20620 (5939)
- B347 500 kW emergency generator, Building 20838 (5928)
- B350 500 kW diesel emergency generator, Building 20085A (6106)
- B351 1500 kW diesel emergency generator, Building 20770 (6145)
- B352 Emergency generator, 100 kW Kohler w/ 200 gal fuel tank, Building 20016 (6453)
- B353 Emergency generator, 500 kw Kohler, Building 20837 (6391)
- B354 Emergency generator, 40 kW Kohler, Building 27000 (6424)
- B356 Emergency Generator, 750 kW, Building 20840 (6698)
- B357 Emergency Generator, 80 kW, Building 20077 (7000)
- B358 Emergency Generator 1500 kW, Caterpillar 3512C, Building 20851 (6999)
- B362 Emergency Generator 200 kW, Building 20838 (6798)
- B363 Emergency Generator 250 kW, Building 20652 (6799)
- B365 Emergency Generator 500 kW, Building 20602 (6937)
- B366 Emergency generator, 75 kW Olympian; F/20481 (6356)
- B368 Emergency generator, 125 kW w/ 700 gal tank; F/20645 (6687)

- B369 125kW CNG emergency generator; Outside, F/20018C (6718)
- B370 Emergency generator, 150 kw Kohler; Outside, F/20494 (6784)
- B371 Emergency generator, 300 kw Kohler; Outside, F/20553 (6785)
- B375 Emergency Generator 500 kW, Building 20838 (6939)
- B376 Emergency Generator 80 kW, Building 20039 (6979)
- B377 Emergency Generator 62 kW, Building 30209 (6788)
- B378 Emergency Generator 80kW, Building 31249 (6980)
- B379 30 kW emergency generator, Building 20841 (6611)
- B380 30 kW generator, Building 20626 (5604)
- B381 300 kW emergency generator, Building 20558 (5608)
- B383 Emergency Generator 200kW, Building 20496 (6988)
- B384 Emergency Generator 400kW, Building 20840 (6996)
- B385 Emergency Generator 750 kW Caterpillar, F/20840 (6997)
- B386 Emergency generator; 3,100 kW; F/20802 (7043)
- B387 Emergency generator, 180 kW, F/20045 (7046)
- B388 Emergency generator; 3,100 kW, F/20802 (7132)
- B389 Emergency Generator, 600 kW, Building 20497 (7189)
- B390 Emergency Generator, 3100 kW F/20802, (7188)

d) The following emissions units are not RICE.

- B367 Micro-turbine test stand; F/20252 (6369)
- B382 Arc welder with 10 kW gasoline generator, Building 20023 (5283)
- G301 Fuel dispensing, Building 20304 (5525)
- G305 E-85 fuel tank and dispenser, Building 20304 (6863) (PBR)
- G306 AAFES Shoppette, Area B, GDF (PBR)
- K303 Laboratory fume hood for solvent cleaning, Building 20655 (3005)
- K304 Museum paint spray booth, Building 20004D (6689)
- K305 Museum outdoor painting, Building 20004D (2532)
- K306 Museum painting in hangar, Building 20004D (5531)
- K309 laboratory fume hood used for minor painting operations, Building 20252 (6379)
- K310 Miscellaneous painting for AF Museum 20004C (6386)
- K311 Miscellaneous painting for AF Museum 20004E (6387)
- L305 Solvent parts cold cleaner, Building 20618 (6148)
- L309 Build All Corp, parts washer/degreaser, 160 gal capacity Tri-clean Super; F/20770 (6578)
- L311 Cold cleaner, Gray Mills; Safety Clean Premium Gold; Room 158, F/20490 (6337)
- L314 Cold cleaner, Graymills; Agitene; Room 50A, F/20652 (6722)
- L315 Paint gun cleaner, Graco PRO (MEK); Room C-133B, F/21661 (6742)
- L317 Cold cleaner, Building 20031 (2382)
- L319 Cold cleaner, Building 20038 (2315)
- L320 Cold cleaner, Building 20038 (2531)
- L322 Degreaser cold cleaner, Building 20745 (5451)
- P307 Jet engine nacelle fire test simulator, Building 20071B (5354) (PTI 08-2763)
- P308 Bench scale lab equipment sea level jet engine test stand, 20071A (2476)
- P312 Engine lubricant testing, Building 20490 (2562)(PTI 08-2372)
- P314 Woodworking operation, Building 20005 (2263)(PTI 08-3481)
- P315 Woodworking operation, Building 20004C (2280)(PTI 08-3481)
- P317 Uniform preservation fume hood, Building 2,0005 (5513)(PTI 08-3481)
- P453 Paint gun cleaner, Building 20004D (6112)



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P454 Cold cleaner, Building 20490 (6575)

P455 Metal shop for customized parts, Building 20004A (5339)

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within the identified Permit to Install for the 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.



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C. Emissions Unit Terms and Conditions



1. B312, 2425

Operations, Property and/or Equipment Description:

55 mmBtu/hr natural gas fired, compressed air heater, Building 2001C

- 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 P0108291	<p>The particulate emissions (PE) from this emissions unit shall not exceed 0.48 ton per year.</p> <p>The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 5.50 pounds per hour and 2.41 tons per year.</p> <p>The carbon monoxide (CO) emissions from this emission unit shall not exceed 4.62pounds per hour and 2.02tons per year.</p> <p>Visible particulate emissions from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average, except as provided by rule.</p> <p>See b)(2)a.</p> <p>The requirements of this rule alsoincludes compliance with OAC rules3745-17-10(B) and 3745-17-07(A)</p>
b.	OAC rule 3745-31-05(D)	See b)(2)b., c)(1) and c)(2).
c.	OAC rule 3745-17-07(A)	The emissions limitations established according to this rule are less stringent than the emissions limitations established according to OAC rule 3745-31-05(A)(3).



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-17-10(B)(1)	The PE from this emissions unit shall not exceed 0.020 pound per million Btu of actual heat input.
e.	40 CFR Part 63, Subpart DDDDD	See Section B.2. b)(2)b. and c)(2).

(2) Additional Terms and Conditions

- a. The hourly emissions limitations were developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- b. By limiting the hours of operation to less than 876 hours per rolling 12-month period, this emissions unit is a limited use process heater as identified in 40 CFR 63.7575.

c) Operational Restrictions

- (1) The total time of operation for this emissions unit shall not exceed 876 hours per rolling, 12-month period.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]
- (2) The permittee shall burn only natural gas in this emissions unit.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain monthly records of the following information for this emissions unit:
 - a. The hours of operation.
 - b. The rolling, 12-month summation of the hours of operation.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]
- (2) For each day during which the permittee burns a fuel other than natural gas the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify all months that the hours of operation exceeded 876 hours on a rolling 12-month basis. These



quarterly deviation reports shall be submitted in accordance with the Standard Terms and Conditions of this permit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0108291]

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 5.50 pounds per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly fuel burning capacity of the emissions unit (million cubic feet/hour) by the emission factor of 100 pounds NO_x/million cubic feet, based on AP-42, Chapter 1.4-1 (revised 7/98).

If requested, the permittee shall demonstrate compliance with the hourly allowable NO_x emission limitation in accordance with U.S. EPA Reference Methods 1 – 4 and 7.

b. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 2.41 tons per year.

Applicable Compliance Method-

The annual limitation was developed by multiplying the allowable NO_x emission limitation of 5.50 pounds NO_x/hour by the maximum operating schedule of 876 hours/rolling, 12-month period, and then dividing by 2,000 pounds per ton.

c. Emissions Limitation-

The CO emissions from this emission unit shall not exceed 4.62 pounds per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (million cubic feet/hour) by the emission factor of 84 pounds CO/million cubic feet, based on AP-42, Chapter 1.4-1 (revised 2/98).

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 10 of 40 CFR, Part 60, Appendix A.

d. Emissions Limitation-

The CO emissions from this emission unit shall not exceed 2.02 tons per year.

Applicable Compliance Method-

The annual limitation was developed by multiplying the allowable CO emission limitation of 4.62 pounds CO/hour by the maximum operating schedule of 876 hours/rolling, 12-month period, and then dividing by 2,000 pounds per ton).

e. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.020 pound per million Btu actual heat input.

Applicable Compliance Method-

For the use of natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.055 million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet, based on AP-42, Chapter 1.4-2 (revised 7/98), and then dividing by the maximum hourly heat input capacity of the emissions unit (million Btu/hour).

If requested, the permittee shall demonstrate compliance with the hourly allowable PE limitation in accordance with OAC rule 3745-17-03(B)(10) using U.S. EPA Reference Methods 1 - 5 of 40 CFR, Part 60, Appendix A.

f. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.48 ton per year.

Applicable Compliance Method-

The annual limitation was developed by multiplying the maximum hourly heat input capacity of the emissions unit (million Btu/hour) by the PE limitation of 0.020 pound PE/million Btu, and by the maximum operating schedule of 876 hours/rolling, 12-month period, and then dividing by 2,000 pounds per ton).



g. Emissions Limitation-

Visible particulate emissions from the stack serving this emissions unit shall not exceed 10 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method-

If requested, 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 Reference Method 9.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI P0108291]

g) Miscellaneous Requirements

(1) None.

2. B315, Stationary Gas Turbine, 2424

Operations, Property and/or Equipment Description:

66.2 Million Btu high-pressure combustion research facility; F/20018

- 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 08-4062	<p>The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 350 pounds per week and 1.75 tons per year.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 2,100 pounds per week and 10.5 tons per year.</p> <p>The nitrogen oxide (NOx) emissions from this emissions unit shall not exceed 2,039 pounds per week and 10.2 tons per year.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-11(B), 3745-17-07(A) and 3745-18-06(F).</p>
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-11(B)(4)	The particulate emissions (PE) from this emissions unit shall not exceed 0.040 pound per million Btu of actual heat input.
d.	OAC rule 3745-18-06(F)	The sulfur dioxide (SO ₂) emissions from this emissions unit shall not exceed 0.5 pound per million Btu of actual heat input.

- (2) Additional Terms and Conditions
 - a. None.
- c) Operational Restrictions
 - (1) The liquid fuel burned in this emissions unit shall have a sulfur content that is sufficient to comply with the allowable SO₂ emission limitation specified in b)(1)a.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]
- d) Monitoring and/or Recordkeeping Requirements
 - (1) The permittee shall calculate and maintain weekly records of the following information for this emissions unit:
 - a. The name and identification of each fuel burned in this emissions unit.
 - b. The volume, in gallons, of each fuel burned in this emissions unit.
 - c. The VOC, CO, and NO_x emission rates, in pounds (see calculation methodology in f)(1)d. through f)(1)h.).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]
 - (2) For each shipment of oil received for burning in this emissions unit, the permittee shall 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 pounds/mmBtu, calculated at the maximum heat input of 66.2 million Btu/hour). (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 and the quality of the oil for those loads may be represented by a single batch analysis from the supplier.

The permittee shall collect or require the oil supplier to collect a representative grab sample for each shipment of oil that is received for burning in this emissions unit. 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 method D240, D3338, or D4809 (for heat content) and ASTM method D4294, D129, D1266, D2622, D3120, or D5453 (for sulfur content)), or equivalent methods as approved by the Director.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency), in writing, of any record that shows an exceedance of the allowable sulfur dioxide emission limitation in b)(1)d. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. all exceedances of the weekly VOC emission limitation of 350 pounds;
 - b. all exceedances of the weekly CO emission limitation of 2,100 pounds; and
 - c. all exceedances of the weekly NO_x emission limitation of 2,039 pounds.

These reports shall be submitted in accordance with Standard Terms and Conditions of this permit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]

- (3) The permittee shall submit annual reports that summarize the actual annual VOC, NO_x, and CO emissions for this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Title V Fee Emission Report.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-4062]

f) Testing Requirements

- (1) Compliance with the emission limitations in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.040 pound per million Btu of actual heat input.

Applicable Compliance Method-

Compliance shall be based upon an emission factor of 0.012 pound/million Btu specified in U.S. EPA reference document, AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors, Table 3.1-2a (revised 4/00).

If requested, the permittee shall demonstrate compliance in accordance with the procedures specified in OAC rule 3745-17-03(B)(10) and U.S. EPA Reference Methods 1 through 5.



b. Emissions Limitation-

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method-

If requested, 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 Reference Method 9.

c. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.5 pound per million Btu of actual heat input.

Applicable Compliance Method-

Compliance shall be based upon the record keeping and analysis requirements specified in d)(2) and the use of the equation contained in OAC rule 3745-18-04(F)(2); or

the emission factor of 1.01(S) pounds SO₂/million Btu as specified in AP-42 Table 3.1-2a (revised 4/00), multiplied by the sulfur content as a weight percent of the fuel.

If requested, the permittee shall demonstrate compliance with the allowable SO₂ emissions limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 6.

d. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 350 pounds per week.

Applicable Compliance Method-

The VOC emissions from the combustion of diesel and other hydrocarbon fuels shall be determined by multiplying the weekly diesel/hydrocarbon fuel usage by the AP-42, Table 3.1-2a (revised 4/00) emission factor of 0.004 pound VOC/million Btu and by the heat content of the fuel.

e. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 1.75 tons per year.

Applicable Compliance Method-

Compliance shall be based upon the record keeping requirements specified in f)(1)d. and shall be the sum of the weekly VOC emission rates for the calendar year, divided by 2,000 pounds per ton.

f. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 2,100 pounds per week.

Applicable Compliance Method-

The CO emissions from the combustion of diesel and other hydrocarbon fuels shall be determined by multiplying the weekly diesel/hydrocarbon fuel usage by the AP-42, Table 3.1-1. (revised 4/00) emission factor of 0.0033 pound CO/million Btu and by the heat content of the fuel

g. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 10.5 tons per year.

Applicable Compliance Method-

Compliance shall be based upon the record keeping requirements specified in section f)(1)f. and shall be the sum of the weekly CO emission rates for the calendar year, divided by 2,000 pounds per ton.

h. Emissions Limitation-

The NOx emissions from this emissions unit shall not exceed 2,039 pounds per week.

Applicable Compliance Method-

Compliance shall be based upon the record keeping requirements specified in d)(1) and shall be determined by summing the NOx emissions from the burning of jet aviation fuel and diesel/hydrocarbon fuels as follows:

- i. The NOx emissions from jet aviation fuels shall be determined by multiplying the weekly jet fuel usage by the company-derived (based on testing) emission factor of 55 pounds NOx/1000 gallons).
- ii. The NOx emissions from the combustion of diesel and other hydrocarbon fuels shall be determined by multiplying the weekly diesel/hydrocarbon fuel usage by the AP-42, Table 3.1-1 (revised 4/00) emission factor of 0.88 pound NOx/million Btu and by the heat content of the fuel.

Emissions Limitation-

The NOx emissions from this emissions unit shall not exceed 10.2 tons per year.



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Applicable Compliance Method

Compliance shall be based upon the record keeping requirements specified in section f)(1)h. and shall be the sum of the weekly NOx emission rates for the calendar year, divided by 2,000 pounds per ton.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-4062]

g) Miscellaneous Requirements

(1) None.



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3. F001, 6388

Operations, Property and/or Equipment Description:

Paved and Unpaved Roadways and Parking Areas Includes former Insignificant Activity Y700

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

(1) None.

b) Applicable Emissions Limitations and/or Control Requirements

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	OAC rule 3745-17-07(B)	See b)(2)a.
b.	OAC rule 3745-17-08(B)	See b)(2)b.

(2) Additional Terms and Conditions

a. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(B) pursuant to OAC rule 3745-17-07(B)(11)(e).

b. This facility is not located within the areas identified in "Appendix A" of OAC rule 3745-17-08). Therefore, the requirements of OAC rule 3745-17-08(B) do not apply to this emissions unit.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) None.

e) Reporting Requirements

(1) None.



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. None.

g) Miscellaneous Requirements

(1) None.



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4. K601, 2565

Operations, Property and/or Equipment Description:

Aerospace ground equipment paint spray booth with dry filtration particulate control system.
 Building 30093 (2565)

- 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 08-2870	The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 47.0 pounds per day excluding cleanup. The VOC emissions from this emissions unit shall not exceed 12.42 tons per year including cleanup. The requirements of this rule also includes compliance with therequirements of OAC rules 3745-17-11(B) and 3745-17-07(A) and 3745-21-09(U)(2)(e)(i).
b.	OAC rule 3745-21-09(U)(2)(e)(i)	The volume of coating applied in this emissions unit shall not exceed 8 gallons per day.
c.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).

- (2) Additional Terms and Conditions
 - a. The 47.0 pounds VOC/day limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

c) Operational Restrictions

- (1) The permittee shall operate the dry filtration control system whenever aerosol spray coatings are applied in this emissions unit. The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry filtration system in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term OAC rule 3745-17-11(C)(1) and (2)(b), OAC rule 3745-77-07(C)(1)]

- (2) In the event the dry filtration system control system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term OAC rule 3745-17-11(C)(2)(e)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each day for the paint operation:
 - a. The identification of each coating and cleanup material employed.
 - b. The volume, in gallons, of each coating and cleanup material employed.
 - c. The total volume, in gallons, of all of the coatings and cleanup materials employed.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2870]

- (2) The permittee shall collect and record the following information on a monthly basis for the coating and cleanup materials applied in this emissions unit:
 - a. the volume, in gallons, of each coating applied or all coatings applied during the month;
 - b. the maximum VOC content for each of the coatings applied, in pounds per gallon;
 - c. the total VOC emissions from all coatings applied, (i.e., the summation of the products of d)(2)a. times d)(2)b. for each individual coating applied);
 - d. the name and identification of each cleanup material employed;
 - e. the VOC content of each cleanup material, in pounds per gallon;
 - f. the number of gallons of each cleanup material employed;

- g. the total VOC emission rate from all cleanup materials, (i.e., the sum of the products of d)(2)e. times d)(2)f. for all cleanup materials employed); and
- h. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons, (the sum of d)(2)c. and d)(2)g.).

These monthly records shall be maintained for the purpose of determining annual VOC emissions for each emissions unit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2870]

- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry filtration control system, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (4) The permittee shall conduct periodic inspections of the dry filtration control to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (5) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry filtration control while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (6) The permittee shall document each inspection (periodic and annual) of the dry filtration control system and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and
 - d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (7) The permittee shall maintain records that document any time periods when the dry filtration control was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry filtration control was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local airagency) in writing of any daily record showing that the paint operation employed more than the applicable maximum daily coating limit of 8 gallons. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2870]

- (2) The permittee shall submit annual reports that specify the total OC and VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2870]

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. any daily record showing that the dry filtration control system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation;

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

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

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emission Limitation -

The volume of coating applied in this emissions unit shall not exceed 8 gallons per day.



Applicable Compliance Method -

Compliance shall be based upon the record keeping specified in d)(1).

b. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 47.0 pounds per day excluding cleanup.

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum daily coating usage rate by the maximum VOC content of all coatings applied in this emissions unit (two part coating – (4 gallons resin x 6.96 pounds VOC/gallon) + (4 gallons catalyst x 4.79 pounds VOC/gallon)).

c. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 12.42 tons per year including cleanup.

Applicable Compliance Method -

Compliance shall be based upon the record keeping specified in d)(2) and the sum of the 12 monthly VOC emission rates for each calendar year.

g) Miscellaneous Requirements

(1) None.



5. K607, 5174

Operations, Property and/or Equipment Description:

Surface coating; paint spray booth with dry filtration particulate control system; F/30901

- 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 08-3167	The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 49.6 pounds per day excluding cleanup. The volume of coating applied in this emissions unit shall not exceed 7 gallons per day. The VOC emissions from this emissions unit shall not exceed 7.0 tons per year, including cleanup. The requirements of this rule also includes compliance with the requirements of OAC rules 3745-17-11(B) and 3745-17-07(A).
b.	OAC rule 3745-21-09(U)(2)(e)(i)	The emissions limitations established according to this rule are less stringent than the emissions limitations established according to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average.
d.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).

(2) Additional Terms and Conditions

- a. The 49.6pounds VOC per day limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keepingand/or reporting requirements to ensure compliance with this limit.

c) Operational Restrictions

- (1) The permittee shall operate the dry filtration control system whenever aerosol spray coatings are applied in this emissions unit. The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry filtration system in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term OAC rule 3745-17-11(C)(1) and (2), OAC rule 3745-77-07(C)(1)]

- (2) In the event the dry filtration system control system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term OAC rule 3745-17-11(C)(2)]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each day for the paint operation:

- a. The identification of each coating and cleanup material employed.
- b. The volume, in gallons, of each coating and cleanup material employed.
- c. The total volume, in gallons, of all of the coatings and cleanup materials employed.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3167]

- (2) The permittee shall collect and record the following information on a monthly basisfor the coating and cleanup materials applied in this emissions unit:

- a. the volume, in gallons, of each coating applied or all coatings applied during the month;
- b. the maximum VOC content for each of the coatings applied, in pounds per gallon;
- c. the total VOC emissions from all coatings applied, (i.e., the summation of the products of d)(2)a. times d)(2)b. for each individual coating applied);

- d. the name and identification of each cleanup material employed;
- e. the VOC content of each cleanup material, in pounds per gallon;
- f. the number of gallons of each cleanup material employed;
- g. the total VOC emission rate from all cleanup materials, (i.e., the sum of the products of d)(2)e. times d)(2)f. for all cleanup materials employed); and
- h. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons, (the sum of d)(2)c. and d)(2)g.).

These monthly records shall be maintained for the purpose of determining annual VOC emissions for each emissions unit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3167]

- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry filtration control system, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (4) The permittee shall conduct periodic inspections of the dry filtration control to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (5) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry filtration control while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (6) The permittee shall document each inspection (periodic and annual) of the dry filtration control system and shall maintain the following information:
 - a. the date of the inspection;
 - b. a description of each/any problem identified and the date it was corrected;
 - c. a description of any maintenance and repairs performed; and

- d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

- (7) The permittee shall maintain records that document any time periods when the dry filtration control was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry filtration control was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term OAC rules 3745-77-(A)(3), 3745-17-11(C)(2)]

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local airagency) in writing of any daily record showing that the paint operation employed more than the applicable maximum daily coating limit of 7 gallons. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3167]

- (2) The permittee shall submit annual reports that specify the total OC and VOC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3167]

- (3) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
- a. any daily record showing that the dry filtration control system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit(s) was/were in operation;

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

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

f) Testing Requirements

(1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emission Limitation -

The volume of coating applied in this emissions unit shall not exceed 7 gallons per day.

Applicable Compliance Method -

Compliance shall be based upon the record keeping specified in d)(1).

b. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 49.6 pounds per day excluding cleanup.

Applicable Compliance Method -

Compliance shall be determined by multiplying the maximum daily coating usage rate by the maximum VOC content of all coatings applied in this emissions unit (7 gallons coating x 7.08 pounds VOC/gallon).

c. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 7.0 tons per year including cleanup.

Applicable Compliance Method -

Compliance shall be based upon the record keeping specified in d)(2) and the sum of the 12 monthly VOC emission rates for each calendar year.

d. Emission Limitation -

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average.

Applicable Compliance Method -

If requested, 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 Reference Method 9.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-3167]

g) Miscellaneous Requirements

(1) None.



Effective Date: To be entered upon final issuance

6. K617, 6050

Operations, Property and/or Equipment Description:

Surface coating; paint spray booth; F/34024

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 08-4095	The VOC emissions from this emissions unit shall not exceed 39.2 pounds per day and 3.78 tons per year including cleanup materials. See b)(2)a. and b)(2)b. Compliance with this rule also includes compliance with OAC rules 3745-17-07(A), 3745-17-11, 3745-21-09(U)(2)(e)(i) and 40 CFR Part 63, Subpart GG.
b.	OAC rule 3745-21-09(U)(2)(e)(i)	The volume of coating applied in this emissions unit shall not exceed 8 gallons per day.
c.	OAC rule 3745-17-11(C)	See c)(1) and c)(2).
d.	40 CFR Part 63, Subpart GG	See Section B.3.

(2) Additional Terms and Conditions

a. The daily emissions limitation was developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

c) Operational Restrictions

(1) The permittee shall operate the dry filtration system for the control of particulate emissions whenever this emissions unit is in operation and shall maintain the dry

particulate filter in accordance with the manufacturer's recommendations, instructions, and/or operating manual(s), with any modifications deemed necessary by the permittee.

[Authority for term: OAC rules 3745-17-11(C)(1) and (2) and 3745-77-07(C)(1)]

- (2) In the event the particulate filter system is not operating in accordance with the manufacturer's recommendations, instructions, or operating manual, with any modifications deemed necessary by the permittee, the control device shall be expeditiously repaired or otherwise returned to these documented operating conditions.

[Authority for term OAC rule 3745-17-11(C)(2)]

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

- (1) The permittee shall collect and record the following information each day for each emissions unit.

- a. the name and identification of each coating employed;
- b. the volume, in gallons, of each coating employed; and
- c. the total volume, in gallons, of all of the coatings employed.

[Authority for term OAC rules 3745-21-09(B)(3)(d) and 3745-77-07(A)(3), PTI 08-4095]

- (2) The permittee shall collect and record the following information for each month for this emissions unit:

- a. The identification of each coating and cleanup material employed.
- b. The volume, in gallons, of each coating and cleanup material employed.
- c. The VOC content of each coating and cleanup material employed, in pounds per gallon.
- d. The total VOC emissions from all coatings and cleanup materials employed, in pounds [i.e., summation of d)(2)b. x d)(2)c. for each coating employed], in pounds per month.

These monthly records shall be maintained for the purpose of determining annual VOC emissions.

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

- (3) The permittee shall maintain documentation of the manufacturer's recommendations, instructions, or operating manuals for the dry particulate filter, along with documentation of any modifications deemed necessary by the permittee. These documents shall be maintained at the facility and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC 3745-17-11(C)(2)]

- (4) The permittee shall conduct periodic inspections of the dry particulate filter to determine whether it is operating in accordance with the manufacturer's recommendations, instructions, or operating manuals with any modifications deemed necessary by the permittee or operator. These inspections shall be performed at a frequency that shall be based upon the recommendation of the manufacturer and the permittee shall maintain a copy of the manufacturer's recommended inspection frequency and it shall be made available to the Ohio EPA upon request.

[Authority for term OAC rule 3745-17-11(C)(2)(c)]

- (5) In addition to the recommended periodic inspections, not less than once each calendar year the permittee shall conduct a comprehensive inspection of the dry particulate filter while the emissions unit is shut down and perform any needed maintenance and repair to ensure that it is operated in accordance with the manufacturer's recommendations.

[Authority for term OAC rule 3745-17-11(C)(2)]

- (6) The permittee shall document each inspection (periodic and annual) of the dry particulate filter system and shall maintain the following information:

- a. the date of the inspection;
- b. a description of each/any problem identified and the date it was corrected;
- c. a description of any maintenance and repairs performed; and
- d. the name of person who performed the inspection.

These records shall be maintained at the facility for not less than five years from the date the inspection and any necessary maintenance or repairs were completed and shall be made available to the appropriate Ohio EPA District Office or local air agency upon request.

[Authority for term OAC rule 3745-17-11(C)(2)]

- (7) The permittee shall maintain records that document any time periods when the dry particulate filter was not in service when the emissions unit(s) was/were in operation, as well as, a record of all operations during which the dry particulate filter was not operated according to the manufacturer's recommendations with any documented modifications made by the permittee. These records shall be maintained for a period of not less than five years and shall be made available to the Ohio EPA upon request.

[Authority for term OAC rule 3745-17-11(C)(2)]

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the paint operation employed more than the applicable maximum daily coating usage limit of 8 gallons. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.



[Authority for term OAC rules 3745-21-09(B)(3)(d) and 3745-77-07(A)(3)]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. any daily record showing that the dry particulate filter system was not in service or not operated according to manufacturer's recommendations (with any documented modifications made by the permittee) when the emissions unit was in operation;

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

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

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

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

f) **Testing Requirements**

- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. **Emission Limitation –**

The VOC emissions from this emissions unit shall not exceed 39.2 pounds per day.

Applicable Compliance Method –

Compliance was demonstrated by multiplying the maximum VOC content (4.9 pounds VOC/gallon) of the coating by the maximum daily coatings usage rate (8 gallons/day).

If requested, the VOC content of the coatings applied shall be determined using the methods and procedures specified in U.S. EPA Reference Method 24.

- b. **Emission Limitation –**

The VOC emissions from this emissions unit shall not exceed 3.78 tons per year.

Applicable Compliance Method -

Compliance shall be demonstrated according to the record keeping requirements of d)(2) and the sum of the monthly VOC emissions rates for the previous calendar year.



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- g) Miscellaneous Requirements
 - (1) None.



7. P310, 2547

Operations, Property and/or Equipment Description:

Jet Engine Wind Tunnel With Five Engines

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 08-2744	<p>The particulate emissions (PE) from this emissions unit shall not exceed 36.3 pounds per hour.</p> <p>The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 123 pounds per hour.</p> <p>The sulfur dioxide (SO₂) emissions from this emissions unit shall not exceed 0.73 pound per hour. See c)(2).</p> <p>The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 122 pounds per hour.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 134 pounds per hour.</p> <p>See b(2)a.</p>
b.	OAC rule 3745-31-05(D) PTI 08-2744 (Synthetic minor to avoid PSD)	<p>The PE from this emissions unit shall not exceed 3.89 tons on a rolling 12-month basis.</p> <p>The NOx emissions from this emissions unit shall not exceed 11.29 tons on a rolling 12-month basis.</p>



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The SO₂ emissions from this emissions unit shall not exceed 0.08 tons on a rolling 12-month basis. See c)(2).</p> <p>The VOC emissions from this emissions unit shall not exceed 13.51 tons on a rolling 12-month basis.</p> <p>The CO emissions from this emissions unit shall not exceed 14.66 tons on a rolling 12-month basis.</p>
c.	OAC rule 3745-17-07(A)	See b)(2)b.
d.	OAC rule 3745-17-11(A)(1)(m)	See b)(2)c.
e.	OAC rule 3745-18-06(F)	The emissions limitation established by this rule is less stringent than the emissions limitation established according to OAC rules 3745-31-05(A)(3) and 3745-31-05(D).
f.	40 CFR Part 63, Subpart P P P P P	See b)(2)d.

(2) Additional Terms and Conditions

- a. The hourly emissions limitations were developed for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.
- b. This emissions unit is exempt from the visible PE limitations specified in OAC rule 3745-17-07(A), pursuant to OAC rule 3745-17-07(A)(3)(h), because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. Pursuant to OAC rule 3745-17-11(A)(1)(m) jet engine test stands are not subject to the emissions limitations of OAC rule 3745-17-11.
- d. This emissions unit does not have to meet the requirements of National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards (40 CFR Part 63, Subpart P P P P P). This emissions unit is an existing affected source as defined in 40 CFR 63.9290(a)(1). Existing affected sources do not have to meet the requirements of this subpart and 40 CFR Part 63, Subpart A according to 40 CFR 63.9290(b).

c) Operational Restrictions

- (1) The volume of fuel consumed (JP-8) in this emissions unit shall not exceed 300,000 gallons on a rolling 12-month basis.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2744]

- (2) The sulfur concentration of the fuel (JP-8) consumed in this emissions unit shall not exceed 3,000 parts per million (ppm), by weight.

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

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

- (1) The permittee shall maintain monthly records of the following information for this emissions unit:

- a. The volume, in gallons, of fuel used in engine testing.
- b. The rolling 12-month summation of the monthly fuel usage rates, in gallons (e.g., the sum of the monthly fuel consumption rates from d)(1)a. for the previous 12 months).
- c. The sulfur concentration of the fuel consumed, in parts per million, by weight.
- d. The calculated emissions, in tons, for
 - i. PE, in tons per month. Calculated by multiplying the emission factor of 3.83 pounds PM-10 per 1,000 pounds of fuel (0.12×4.98 pounds PM-10 1,000 pounds fuel + 0.88×3.67 pounds PM-10 per 1,000 pounds fuel) multiplied by the weight of fuel consumed (volume in d)(1)a. multiplied by 6.77 pounds/gallon and divided 1,000) and divided by 2,000 pounds per ton;
 - ii. NOx, in tons per month. Calculated by multiplying the emission factor of 11.1 pounds NOx per 1,000 pounds of fuel (0.12×1.80 pounds NOx 1,000 pounds fuel + 0.88×12.39 pounds NOx per 1,000 pounds fuel) multiplied by the weight of fuel consumed (volume in d)(1)a. multiplied by 6.77 pounds/gallon and divided 1,000) and divided by 2,000 pounds per ton;
 - iii. VOC, in tons per month. Calculated by multiplying the emission factor of 13.3 pounds VOC per 1,000 pounds of fuel (0.12×107 pounds VOC 1,000 pounds fuel + 0.88×0.53 pound VOC per 1,000 pounds fuel) multiplied by the weight of fuel consumed (volume in d)(1)a. multiplied by 6.77 pounds/gallon and divided 1,000) and divided by 2,000 pounds per ton; and
 - iv. CO, in tons per month. Calculated by multiplying the emission factor of 14.4 pounds CO per 1,000 pounds of fuel (0.12×117 pounds CO 1,000 pounds fuel + 0.88×0.45 pound CO per 1,000 pounds fuel) multiplied by the weight of fuel consumed (volume in d)(1)a. multiplied by 6.77 pounds/gallon and divided 1,000) and divided by 2,000 pounds per ton.

The air emission factors used in these calculations were determined according to U.S. Air Force, Air Emissions Inventory Guidance Document for Mobile Source at Air Force Installations (IERA-RS-BR-SR-2001-0010, Revised December, 2003). The engines employed in this emissions unit are Pratt & Whitney model TF33-



P102A, an operation profile of 12% idle and 88% military and a JP-8 density of 6.77 pounds per gallon.

- e. The rolling, 12-month emissions of
 - i. PE (e.g., the sum of the monthly PE rates from d)(1)d.i. for the previous 12 months),
 - ii. NO_x (e.g., the sum of the monthly NO_x emission rates from d)(1)d.ii. for the previous 12 months),
 - iii. VOC (e.g., the sum of the monthly VOC emission rates from d)(1)d.iii. for the previous 12 months), and
 - iv. CO (e.g., the sum of the monthly CO emissions rates from d)(1)d.iv. for the previous 12 months), in tons.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2744]

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month fuel usage restriction of 300,000 gallons;
 - b. all exceedances of the 3,000 ppm sulfur concentration restriction;
 - c. all exceedances of the rolling, 12-month PE limitation of 3.89 tons;
 - d. all exceedances of the rolling, 12-month NO_x emission limitation of 11.29 tons;
 - e. all exceedances of the rolling, 12-month VOC emission limitation of 13.52 tons; and
 - f. all exceedances of the rolling, 12-month CO emission limitation of 14.66 tons.

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-2744]

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):
 - a. Emissions Limitation-

The PE from this emissions unit shall not exceed 36.3 pounds per hour.



Applicable Compliance Method-

Compliance shall be based on the worst case emissions scenario for PE, which occurs during the "military" testing profile by multiplying the emission factor of 3.67 pounds PM-10 per 1,000 pounds of fuel multiplied by the maximum fuel consumption rate of 9,888 pounds per hour (Reference - (U.S. Air Force, IERA-RS-BR-SR-2001-0010, Revised December, 2003).

b. Emissions Limitation-

The PE from this emissions unit shall not exceed 3.89 tons on a rolling 12-month basis.

Applicable Compliance Method-

Compliance shall be based on the record keeping requirements of d)(1)e.

c. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 123 pounds per hour.

Applicable Compliance Method-

Compliance shall be based on the worst case emissions scenario for NO_x, which occurs during the "military" testing profile by multiplying the emission factor of 12.39 pounds NO_x per 1,000 pounds of fuel multiplied by the maximum fuel consumption rate of 9,888 pounds per hour (Reference - (U.S. Air Force, IERA-RS-BR-SR-2001-0010, Revised December, 2003).

d. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 11.29 tons on a rolling 12-month basis.

Applicable Compliance Method-

Compliance shall be based on the record keeping requirements of d)(1)e.

e. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.73 pound per hour.

Applicable Compliance Method-

Compliance shall be based on multiplying the emission factor of 0.07 pounds SO₂ per 1,000 pounds of fuel multiplied by the maximum fuel consumption rate of 9,888 pounds per hour. This emission factor was determined by multiplying the weigh percent sulfur (0.025 = 3,000 ppm by weight) of JP-8 by 20. (Reference - (U.S. Air Force, IERA-RS-BR-SR-2001-0010, Revised December, 2003).



f. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.08 ton per year.

Applicable Compliance Method-

Compliance shall be based on multiplying the maximum SO₂ emissions rate of 0.73 pound per hour by 8,760 hours per year and dividing by 2,000 pounds per ton.

g. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 122 pounds per hour.

Applicable Compliance Method-

Compliance shall be based on the worst case emissions scenario for VOC, which occurs during the "idle" testing profile by multiplying the emission factor of 107pounds VOC per 1,000 pounds of fuel multiplied by the maximum fuel consumption rate of 1,144 pounds per hour (Reference - (U.S. Air Force, IERA-RS-BR-SR-2001-0010, Revised December, 2003).

h. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 13.51 tons on a rolling 12-month basis.

Applicable Compliance Method-

Compliance shall be based on the record keeping requirements of d)(1)e.

i. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 134 pounds per hour.

Applicable Compliance Method-

Compliance shall be based on the worst case emissions scenario for CO, which occurs during the "idle" testing profile by multiplying the emission factor of 117pounds CO per 1,000 pounds of fuel multiplied by the maximum fuel consumption rate of 1,144 pounds per hour (Reference - (U.S. Air Force, IERA-RS-BR-SR-2001-0010, Revised December, 2003).

j. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 14.6 tons on a rolling 12-month basis. .



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Applicable Compliance Method-

Compliance shall be based on the record keeping requirements of d)(1)e.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-2744]

g) Miscellaneous Requirements

(1) None.

8. P376, 6903

Operations, Property and/or Equipment Description:

Jet Fuel Research Pilot Plant - 15 gallons/day

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 08-04919	The carbon monoxide (CO) emissions from this emissions unit shall not exceed 328 lbs/day and 59.9 tons per year (TPY). The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 82.8 lbs/day and 15.1 TPY. See b)(2)a.

(2) Additional Terms and Conditions

a. The 328 pounds of CO per day and 82.8 lbs VOC/day emissions limitations were established for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limitations.

c) Operational Restrictions

(1) None.

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall record the volume, in gallons, of jet fuel manufactured in this emissions unit each month.

[Authority for term PTI 08-04919 and OAC rule 3745-77-07(A)(3)]



e) Reporting Requirements

- (1) The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) for this emissions unit that specify:
 - a. The volume, in gallons, of fuel manufactured in this emissions unit.
 - b. The total CO emissions, in tons, from this emissions unit for the previous calendar year.
 - c. The total VOC emissions, in tons, from this emissions unit for the previous calendar year.

The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Report.

[Authority for term PTI 08-04919 and OAC rule 3745-77-07(A)(3)]

f) Testing Requirements

- (1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:
 - a. Emission Limitation:

The CO emissions from this emissions unit shall not exceed 328 lbs/day.

Applicable Compliance Method:

Compliance is based upon process design modeling completed by the Air Force using software developed by the Idaho National Laboratories and consists of 50.4 lbs CO per day from the steam-methane reformer, 277 lbs CO per day from the FT reactor and 0.6 lb CO per day from the upgrader.
 - b. Emission Limitation:

The CO emissions from this emissions unit shall not exceed 59.9 TPY.

Applicable Compliance Method:

Compliance is based on the record keeping requirements of d)(1) and shall be the sum of the monthly volumes of fuel manufactured in this emissions unit each calendar year, in gallons, multiplied by a worst case emission factor of 21.9 lbs CO per gallon of fuel (potential emissions 328 lbs CO/day divided by plant capacity 15 gallons/day) divided by 2,000 lbs per ton.
 - c. Emission Limitation:

The VOC emissions from this emissions unit shall not exceed 82.8 lbs/day.



Applicable Compliance Method:

Compliance is based upon process design modeling completed by the Air Force using software developed by the Idaho National Laboratories and consists of 81.6 lbs VOC per day from the FT reactor and 1.2 lbs VOC per day from the upgrader.

d. Emission Limitation:

The VOC emissions from this emissions unit shall not exceed 15.1 TPY.

Applicable Compliance Method:

Compliance is based on the record keeping requirements of d)(1) and shall be the sum of the monthly volumes of fuel manufactured in this emissions unit each calendar year, in gallons, multiplied by a worst case emission factor of 5.52 lbs VOC per gallon of fuel (potential emissions 82.8 lbs VOC/day divided by plant capacity 15 gallons/day) divided by 2,000 lbs per ton.

[Authority for term PTI 08-04919 and OAC rule 3745-77-07(A)(3)]

g) Miscellaneous Requirements

(1) None.



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9. Emissions Unit Group -Boilers F/10840: B113,B118,

EU ID	Operations, Property and/or Equipment Description
B113	Boiler; 16.75 MMBtu; natural gas-fired; F/10840, Boiler #5
B118	Boiler, 16.75 MMBtu; natural gas fired; F/10840, Boiler #6

- 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 P0112688	<p><u>Emissions Unit B113:</u> The particulate emissions (PE) from this emissions unit shall not exceed 0.335 pound per hour and 1.47 tons per year.</p> <p>The nitrogen oxides (NOx) emissions from this emissions unit shall not exceed 0.84 pound per hour and 3.67 tons per year.</p> <p>The sulfur dioxide (SO₂) emissions from this emissions unit shall not exceed 0.01 pound per hour and 0.04 ton per year.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 1.41 pounds per hour and 6.18 tons per year.</p> <p>The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 0.10 pound per hour and 0.40 ton per year.</p> <p>See b)(2)a., and c)(1).</p> <p>The requirements of this rule also include</p>



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B), and 40 CFR Part 60, Subpart Dc.
b.	OAC rule 3745-31-05(A)(3) PTI 08-3672	<p><u>Emissions Unit B118:</u> The (PE) from this emissions unit shall not exceed 0.27 pound per hour and 0.93 ton per year.</p> <p>The NOx emissions from this emissions unit shall not exceed 0.84 pound per hour and 2.25 tons per year.</p> <p>The SO₂ emissions from this emissions unit shall not exceed 0.01 pound per hour and 0.03 ton per year.</p> <p>The CO emissions from this emissions unit shall not exceed 1.41 pounds per hour and 3.78 tons per year.</p> <p>The VOC emissions from this emissions unit shall not exceed 0.10 pound per hour and 0.26 ton per year.</p> <p>See b)(2)a. and c)(2).</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A), 3745-17-10(B) and 40 CFR Part 60 , Subpart Dc.</p>
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-10(B)	The PE from each emissions unit shall not exceed 0.020 pound per million Btu of actual heat input.
e.	40 CFR Part 60, Subpart Dc	See c)(1)., c)(2), d)(1)b. and e)(1)a.
f.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and c)(1).

(2) Additional Terms and Conditions

- a. The hourly emissions limitations were developed for PTI purposes to reflect the potentials to emit for these emissions units. Therefore, it is not necessary to

develop record keeping and/or reporting requirements to ensure compliance with these limits.

c) Operational Restrictions

(1) The following operational restrictions apply to Emissions Unit B113:

a. The permittee shall burn only natural gas in this emissions unit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0112688]

(2) The following operational restrictions apply to Emissions Unit B118:

a. The permittee shall burn only natural gas in this emissions unit.

b. The volume of natural gas burned in this emissions unit shall not exceed 90 million cubic feet per year.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3672]

d) Monitoring and/or Recordkeeping Requirements

(1) The following requirements apply to emissions unit B113:

a. The permittee shall calculate and maintain monthly records of the following information for this emissions unit:

i. the volume, in million cubic feet, of natural gas burned; and

ii. the SO₂ emissions, in tons, calculated as follows:

(a) multiply the total natural gas burned, from d)(1)b.i. above, by the emission factor of 0.6 pound SO₂/million cubic feet, as specified in AP-42 Chapter 1.4-2 (7/98), divided by 2,000 pounds/ton.

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0112688]

(2) The following requirements apply to emissions unit B118:

a. The permittee shall maintain monthly records of the volume, in million cubic feet of natural gas burned in this emissions unit.

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3672]

e) Reporting Requirements

(1) The following requirements apply to emissions unit B113:

- a. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. The report shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 30 days after the deviation occurs.
- b. The permittee shall submit annual reports that summarize the actual annual fuel usage for the previous calendar year for this emissions unit. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.

[Authority for term OAC rules 3745-18-06 and 3745-77-07(A)(3) and PTI P0112688]

(2) The following requirements apply to emissions unit B118:

- a. The permittee shall submit annual reports that summarize the actual annual natural gas usage rate for the previous calendar year for this emissions unit. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual FER.
- b. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3672]

f) Testing Requirements

(1) Compliance with the emission limitation(s) for emissions unit B113 in b)(1)a. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.335 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (1.9 pounds PE/million cubic feet) as specified in AP-42 Chapter 1.4-2 (7/98), by the maximum hourly gas burning capacity (0.01675 million cubic feet/hour) of the emissions unit.

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.



b. Emissions Limitation-

The PE from this emissions unit shall not exceed 1.47 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

c. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 0.84 pounds per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (50 pounds NO_x/million cubic feet), from AP-42, Chapter 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable NO_x emission limitation in accordance with U.S. Reference Methods 1 - 4 and 7.

d. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 3.67 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

e. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.01 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (0.6 pound SO₂/million cubic feet), from AP-42, Chapter 1.4-2 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.



If requested, the permittee shall demonstrate compliance with the hourly allowable SO₂ emission limitation in accordance with U.S. EPA Reference Methods 1 through 4 and 6.

f. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.04 ton per year.

Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

g. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 1.41 pounds per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (84 pounds CO/million cubic feet), from AP-42, Chapter 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with Methods 1 - 4 and 10 of 40 CFR, Part 60, Appendix A.

h. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 6.18 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

i. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 0.10 pound per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the emission factor for natural gas (5.5 pounds VOC/million cubic feet), from AP-42, Chapter 1.4-2 (revised 7/98),



by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 18, 25, or 25A, as appropriate.

j. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 0.40 ton per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-1984]

(2) Compliance with the emission limitation(s) for emissions unit B118 in b)(1)b. of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.27 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (1.9 pounds PE/million cubic feet) as specified in AP-42 Chapter 1.4-2 (7/98), by the maximum hourly gas burning capacity (0.01675 million cubic feet/hour) of the emissions unit.

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

b. Emissions Limitation-

The PE from this emissions unit shall not exceed 0.93 ton per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the hourly emission limitation by 8,760 hours per year, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.



c. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 0.84 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (100 pounds NO_x/million cubic feet), from AP-42, Chapter 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable NO_x emission limitation in accordance with U.S. Reference Methods 1 - 4 and 7.

d. Emissions Limitation-

The NO_x emissions from this emissions unit shall not exceed 2.25 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the by multiplying the 90 million cubic feet annual natural gas usage limitation by the emission factor (100 pounds NO_x/million cubic feet) as specified in AP-42, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

e. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.01 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (0.6 pound SO₂/million cubic feet), from AP-42, Chapter 1.4-2 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable SO₂ emission limitation in accordance with U.S. EPA Reference Methods 1 through 4 and 6.

f. Emissions Limitation-

The SO₂ emissions from this emissions unit shall not exceed 0.03 ton per year.



Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

g. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 1.41 pounds per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (84 pounds CO/million cubic feet), from AP-42, Chapter 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with Methods 1 - 4 and 10 of 40 CFR, Part 60, Appendix A.

h. Emissions Limitation-

The CO emissions from this emissions unit shall not exceed 3.78 tons per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the by multiplying the 90 million cubic feet annual natural gas usage limitation by the emission factor (84 pounds CO/million cubic feet) as specified in AP-42,, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

i. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 0.10 pound per hour.

Applicable Compliance Method-

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (5.5 pounds VOC/million cubic feet), from AP-42, Chapter 1.4-2 (revised 7/98), by the maximum hourly gas burning capacity (million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 18, 25, or 25A, as appropriate.



j. Emissions Limitation-

The VOC emissions from this emissions unit shall not exceed 0.26 ton per year.

Applicable Compliance Method-

The annual emission limitation was developed by multiplying the by multiplying the 90 million cubic feet annual natural gas usage limitation by the emission factor (5.5 pounds VOC/million cubic feet) as specified in AP-42,, and then dividing by 2,000 pounds per ton. Therefore, as long as compliance with the hourly allowable emission limitation is maintained, compliance with the annual emission limitation shall be ensured.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-3672]

(3) Compliance with the emission limitation(s) for emissions unit B113 and B118 in b)(1)c.and b)(1)d. of these terms and conditions shall be determined in accordance with the following method(s):

a. The PE from this emissions unit shall not exceed 0.02 pound per million Btu of actual heat input.

Applicable Compliance Method-

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

b. Emissions Limitation-

Visible particulate emissions from the stack serving this emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method-

If requested, 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 Reference Method 9.

[Authority for term OAC rule 3745-77-07(C)(1), PTI P0112688 and PTI 08-3672]

g) Miscellaneous Requirements

(1) None.



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10. Emissions Unit Group -Boilers F/20559: B302,B355,

EU ID	Operations, Property and/or Equipment Description
B302	Boiler; 20.93 MMBtu; natural gas-fired; F/20559, Boiler #2
B355	Boiler; 20.93 MMBtu; natural gas-fired; F/20559, Boiler #3

- 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) B302 – PTI 08-3429 B355 – PTI 08-4484	<u>Emissions Units B302 and B355:</u> The particulate emissions (PE) from each of these emissions units shall not exceed 0.040 pound per hour and 0.17 ton per year. The nitrogen oxides (NOx) emissions from each of these emissions units shall not exceed 2.09 pounds per hour and 9.16 tons per year. The sulfur dioxide (SO ₂) emissions from each of these emissions units shall not exceed 0.013 pound per hour and 0.055 ton per year. The carbon monoxide (CO) emissions from each of these emissions units shall not exceed 1.76 pounds per hour and 7.71 tons per year. The volatile organic compound (VOC) emissions from each of these emissions units shall not exceed 0.12 pound per hour and 0.53 ton per year.



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		The requirements of this rule also includes compliance with OAC rules 3745-17-07(A), 3745-17-10(B), and 40 CFR Part 60, Subpart Dc.
b.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
c.	OAC rule 3745-17-10(B)	The PE from each emissions unit shall not exceed 0.020 pound per million Btu of actual heat input.
d.	40 CFR Part 60, Subpart Dc.	See c)(1).
e.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and c)(1).

(2) Additional Terms and Conditions

a. The hourly emissions limitations were developed for PTI purposes to reflect the potentials to emit for each emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in each of these emissions units.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3429 and PTI 08-4484]

d) Monitoring and/or Recordkeeping Requirements

(1) The permittee shall maintain monthly records of the volume of natural gas burned, in million cubic feet for each of these emissions units.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3429 and PTI 08-4484]

(2) 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 each emissions unit.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI 08-3429 and PTI 08-4484]

e) Reporting Requirements

(1) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than natural gas was burned in each 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 08-3429 and PTI 08-4484]

f) Testing Requirements

(1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

a. Emissions Limitation-

The PE from each of these emissions units shall not exceed 0.040 pound per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet [from AP-42, Chapter 1.4-2 (revised 7/98)].

b. Emissions Limitation-

The PE from each of these emissions units shall not exceed 0.17 ton per year.

Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be determined by multiplying the summation of the monthly natural gas usage rates for the calendar year by the emission factor of 1.9 pounds PE/million cubic feet [from AP-42, Chapter 1.4-2 (revised 7/98)], and then dividing by 2,000 pounds/ton.

c. Emissions Limitation-

The NOx emissions from each of these emissions units shall not exceed 2.09 pounds per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 100 pounds NOx/million cubic feet [from AP-42, Chapter 1.4-1 (revised 7/98)].

d. Emissions Limitation-

The NOx emissions from each of these emissions units shall not exceed 9.16 tons per year.

Applicable Compliance Method-

Compliance shall be based upon the record keeping requirements specified in section d)(1) and shall be determined by multiplying the summation of the monthly natural gas usage rates for the calendar year by the emission factor of



100 pounds NO_x/ [from AP-42, Chapter 1.4-1 (revised 7/98)], and then dividing by 2,000 pounds/ton.

e. Emissions Limitation-

The SO₂ emissions from each of these emissions units shall not exceed 0.013 pound per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 0.6 pound SO₂/ [from AP-42, Chapter 1.4-2 (revised 7/98)].

f. Emissions Limitation-

The SO₂ emissions from each of these emissions units shall not exceed 0.055 ton per year.

Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be determined by multiplying the summation of the monthly natural gas usage rates for the calendar year)].

g. Emissions Limitation-

The CO emissions from each of these emissions units shall not exceed 1.76 pounds per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 84 pounds CO/ [from AP-42, Chapter 1.4-1 (revised 7/98)].

h. Emissions Limitation-

The CO emissions from each of these emissions units shall not exceed 7.71 tons per year.

Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be determined by multiplying the summation of the monthly natural gas usage rates for the calendar year by the emission factor of 84 pounds CO/ [from AP-42, Chapter 1.4-1 (revised 2/98)], and then dividing by 2,000 pounds/ton.



i. Emissions Limitation-

The VOC emissions from each of these emissions units shall not exceed 0.12 pound per hour.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 5.5 pounds VOC/million cubic feet [from AP-42, Chapter 1.4-2 (revised 7/98)].

j. Emissions Limitation-

The VOC emissions from each of these emissions units shall not exceed 0.53 ton per year.

Applicable Compliance Method-

Compliance shall be based upon record keeping requirements specified in d)(1) and shall be determined by multiplying the summation of the monthly natural gas usage rates for the calendar year by the emission factor of 5.5 pounds VOC/million cubic feet [from AP-42, Chapter 1.4-2 (revised 7/98)], and then dividing by 2,000 pounds/ton.

k. Emissions Limitation-

Visible particulate emissions from the stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method-

If requested, compliance shall be determined by visible emission evaluations performed in accordance with OAC rule 3745-17-03(B)(1) and U.S EPA Reference Methods 1 through 5.

l. Emissions Limitation-

The PE from each emissions unit shall not exceed 0.020 pound per million Btu of actual heat input.

Applicable Compliance Method-

Compliance shall be determined by multiplying the maximum hourly natural gas burning capacity of the emissions unit (0.020923 million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet [from AP-42, Chapter 1.4-2 (revised 7/98)], and then dividing by the maximum hourly heat input capacity of the emissions unit (20.93 million Btu/hour).



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If requested, the permittee shall demonstrate compliance in accordance with OAC rule 3745-17-03(B)(9) and U.S, EPA Reference Methods 1 through 5.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI 08-3429 and PTI 08-4484]

- g) Miscellaneous Requirements
 - (1) None.



11. Emissions Unit Group -Boilers F/20770 NG: B307,B308,B309,B310,

EU ID	Operations, Property and/or Equipment Description
B307	Facility 20770, boiler No. 2; natural gas-fired; 96.9 million BTU per hour nominal heat input
B308	Facility 20770, boiler No 1, natural gas fired; 96.9 million BTU per hour nominal heat input
B309	Facility 20770, boiler No 4, natural gas fired; 169 million BTU per hour nominal heat input
B310	Facility 20770, boiler No 3, natural gas fired; 169 million BTU per hour nominal heat input

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) b)(1)g.

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) June 30, 2008	<u>Emissions Units B307, B308, B309 and B310:</u> See b)(2)a. The nitrogen oxides (NOx) emissions from each emissions unit shall not exceed 0.10 pound per million Btu actual heat input. The carbon monoxide (CO) emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.
b.	OAC rule 3745-31-05(A)(3) June 30, 2008	<u>Emissions Units B307 and B308:</u> The particulate emissions from each emissions unit shall not exceed 3.25 tons on a rolling 12-month basis. (the particulate emissions consist of the particulate matter less than 10 microns (PM-10), particulate matter less than 2.5 microns (PM-2.5) and condensable particulate matter fractions).



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	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The sulfur dioxide (SO₂) emissions from each emissions unit shall not exceed 0.26 ton on a rolling 12-month basis.</p> <p>The volatile organic compound (VOC) emissions from each emissions unit shall not exceed 2.33 tons on a rolling 12-month basis.</p> <p><u>Emissions Units B309 and B310:</u></p> <p>The particulate emissions from each emissions unit shall not exceed 5.63 tons on a rolling 12-month basis (the particulate emissions consist of the PM-10, PM-2.5 and condensable particulate matter fractions).</p> <p>The SO₂ emissions from each emissions unit shall not exceed 0.44 ton on a rolling 12-month basis.</p> <p>The VOC emissions from each emissions unit shall not exceed 4.07 tons on a rolling 12-month basis.</p> <p>See b)(2)b., through b)(2)d.</p> <p>Compliance with this rule also includes compliance with OAC rules 3745 -17-07(A) and 3745-17-10(B), 40 CFR Part 60, Subpart Dc and 40 CFR Part 63, Subpart DDDDD.</p>
c.	OAC rule 3745 -31-05(A)(3)(a)(ii) June 30, 2008	See b)(2)d.
d.	OAC rule 3745-31-05(D) Synthetic Minor to avoid major new source review	<p>The combined NOx emissions from these emissions units shall not exceed 100.0 tons on a rolling 12-month basis.</p> <p>The combined CO emissions from these emissions units shall not exceed 100.0 tons on a rolling 12-month basis.</p> <p>The combined particulate emissions from these emissions units shall not exceed 7.60 tons on a rolling 12-month basis (the particulate emissions consist of the PM-</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		10, PM-2.5 and condensable particulate matter fractions). See b)(2)a. and b)(2)e.
e.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
f.	OAC rule 3745-17-10(B)(1)	The particulate emissions from each emissions unit shall not exceed 0.02 pound per million Btu of actual heat input.
g.	OAC rule 3745-114-01 and ORC 3704.03(F)	See d)(5) through d)(8) and e)(3)
h.	40 CFR Part 60, Subpart Dc	See b)(2)f.
i.	40 CFR Part 63, Subpart DDDDD	See Section B.2.

(2) Additional Terms and Conditions

- a. The BAT determination for these emissions units includes:
 - i. Use of only natural gas as fuel;
 - ii. The use of low NOx burners and a continuous oxygen trim system to control air-to-fuel ratio; and
 - iii. Employment of good combustion practices and a continuous oxygen trim system to control air-to-fuel ratio to reduce CO emissions.
- b. These Best Available Technology (BAT) emissions limitations apply until U.S. EPA approves the Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- c. The particulate, SO₂, and VOC emissions limitations for each emissions unit were established to reflect the potential to emit for each emissions unit. Therefore, it is not necessary to establish monitoring or record keeping for these emissions limitations.
- d. The requirements of this rule apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP. The BAT requirements of OAC rule 3745-31-05(A)(3) do not apply to the particulate, VOC and SO₂ emissions from these emissions units because the uncontrolled potential emissions are less than 10 tons per year.
- e. The combined volume of natural gas used in emissions units B307, B308, B309 and B310 shall not exceed 2,000 MMscf on a rolling 12-month basis. To ensure



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enforceability during the first 12 months of operation, the permittee shall not exceed the fuel use volume specified in the following table:

<u>Month</u>	<u>Cumulative natural gas use (MMscf)</u>
1	400
1-2	800
1-3	1,200
1-4	1,600
1-5	2,000
1-6	2,000
1-7	2,000
1-8	2,000
1-9	2,000
1-10	2,000
1-11	2,000
1-12	2,000

After the first 12 months of operation compliance with the rolling 12-month natural gas use limitation shall be based on a rolling 12-month sum of the actual natural gas use rates for the previous 12 months.

- f. New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units - Emissions units B307 and B308 are steam generating units as defined in 40 CFR 60.41, however, there are no standards for units that only burn natural gas.

- c) Operational Restrictions
 - (1) The permittee shall burn only natural gas in these emissions units.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- 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 used in these emissions units.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

 - (2) The permittee shall install, operate, and maintain equipment to monitor and record the natural gas flow rates to these emissions units, in standard cubic feet per hour (scfh). The monitoring device and any recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer recommendations, instructions, and operating manuals and/or the permittee's established protocols for proper operation. The flow monitoring equipment shall have an accuracy of within plus or minus five percent (5%). The monitoring device and any recorder shall be maintained in continuous operation when these emissions units are in operation, except during periods of calibration, adjustment, or repair conducted in accordance with the maintenance and

calibration schedules provided by the permittee, unless otherwise specified in the applicable monitoring requirements of 40 CFR Part 60 for these emissions units.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (3) The permittee shall maintain monthly records of the following information for each emissions unit*:
- a. the total quantity of natural gas used in each emissions unit, each month, in MMscf, in accordance with d)(2);
 - b. the average heat content, in Btu per cubic foot, of the natural gas combusted in each emissions unit;
 - c. the actual heat input, in MMBtu, for each emissions unit [(d)(3)a. multiplied by d)(3)b. divided by one million];
 - d. the total NO_x emissions for each month, in tons (determined by multiplying the total heat input for each month (as determined in d)(3)c.) by the emission rate, in pound NO_x/MMBtu heat input determined in the last stack test that showed each emissions unit was in compliance divided by 2,000 pounds per ton);
 - e. the total CO emissions for each month, in tons (determined by multiplying the total heat input for each month (as determined in d)(3)c.) by the emission rate, in pound CO/MMBtu heat input determined in the last stack test that showed each emissions unit was in compliance divided by 2,000 pounds per ton);
 - f. the total particulate emissions for each month, in tons, determined by multiplying the total natural gas use for each month (as determined in d)(3)a.) by the emission rate, in pounds particulate/MMScf for each fraction (PM-10 and condensable) divided by 2,000 pound per ton.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (4) The permittee shall maintain monthly records of the following information as a combined total for emissions units B307, B308, B309 and B310*:
- a. the total quantity of natural gas used, each month, in MMscf on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative natural gas use for each calendar month (i.e., the sum of the monthly natural gas use rates for each emissions unit calculated in d)(3)a. above for the previous 12 months),
 - b. the total NO_x emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative NO_x emissions for each calendar month (i.e., the sum of the monthly emissions rates for each emissions unit calculated in d)(3)d. above for the previous 12-months);
 - c. the total CO emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative CO emissions for

each calendar month (i.e., the sum of the monthly emissions rates for each emissions unit calculated in d)(3)e. above for the previous 12-months);

- d. the total particulate emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative particulate emissions for each calendar month (i.e., the sum of the monthly emissions rates for each emissions unit calculated in d)(3)f. above for the previous 12-months).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (5) The PTI application for emissions units, B309 and B310, was evaluated based on the actual materials and the design parameters of the emissions unit(s)' exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:

- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
- b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
- c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):

$$TLV/10 \times 8/X \times 5/Y = 4 TLV/XY = MAGLC$$

- d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or “worst case” toxic contaminant(s):

Toxic Contaminant: Hexane.

TLV (mg/m³): 176

Maximum Hourly Emission Rate (pounds/hour): 0.60

Predicted 1-Hour Maximum Ground-Level Concentration (µg/m³): 0.80

MAGLC (µg/m³): 4,200

The permittee, has demonstrated that emissions of hexane, from emissions units B309 and B310, are calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (6) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the “Toxic Air Contaminant Statute” will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a “modification” under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a “modification”, the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level

concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (7) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F):
- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);
 - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
 - d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (8) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), through the predicted 1-hour maximum ground level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

e) Reporting Requirements

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (2) The permittee shall submit quarterly deviation reports that identify the following:
- a. all exceedances of the 2,000 MMscf rolling 12-month natural gas use limitation;

- b. all exceedances of the 100.0 tons NO_x rolling 12-month emissions limitation;
- c. all exceedances of the 100.0 tons CO rolling 12-month emissions limitation;
- d. all exceedances of the 7.60 tons particulate rolling 12-month emissions limitation;
- e. the probable cause of each deviation;
- f. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations; and
- g. the magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (3) The permittee shall submit annual reports that include any changes to any parameter or value used in the dispersion model used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1 hour maximum concentration. The report should include:
 - a. the original model input;
 - b. the updated model input;
 - c. the reason for the change(s) to the input parameter(s); and
 - d. a summary of the results of the updated modeling, including the input changes; and
 - e. a statement that the model results indicate that the 1-hour maximum ground-level concentration is less than 80% of the MAGLC.

If no changes to the emissions, emissions units, or the exhaust stack have been made during the reporting period, then the report shall include a statement to that effect. This report shall be postmarked or delivered no later than January 31 following the end of each calendar year.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]



f) Testing Requirements

(1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:

a. Emissions Limitation –

The NO_x emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.

Applicable Compliance Method –

Compliance shall be based on emissions testing conducted according to U.S. EPA Reference Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. See f)(2).

b. Emissions Limitation –

The CO emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.

Applicable Compliance Method –

Compliance shall be based on emissions testing conducted according to U.S. EPA Reference Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A. See f)(2).

c. Emissions Limitation –

The particulate emissions from each emissions unit (B307 and B308) shall not exceed 3.25 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.0969 MMscf/hour) multiplied by the emission factor of 7.6 pounds particulate/MMscf (the sum of the 5.7 pounds filterable particulate/MMscf plus 1.9 pounds condensable particulate/MMscf from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

d. Emissions Limitation –

The SO₂ emissions from each emissions unit (B307 and B308) shall not exceed 0.26 ton on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.0969 MMscf/hour) multiplied by the emission factor of 0.6 pound/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98). and multiplying the



hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

e. Emissions Limitation –

The VOC emissions from each emissions unit (B307 and B308) shall not exceed 2.33 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.0969 MMscf/hour) multiplied by the emission factor of 5.5 pounds/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

f. Emissions Limitation –

The particulate emissions from each emissions unit (B309 and B310) shall not exceed 5.63 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 7.6 pounds particulate/MMscf (the sum of the 5.7 pounds filterable particulate/MMscf plus 1.9 pounds condensable particulate/MMscf from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

g. Emissions Limitation –

The SO₂ emissions from each emissions unit (B309 and B310) shall not exceed 0.44 ton on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 0.6 pound/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

h. Emissions Limitation –

The VOC emissions from each emissions unit (B309 and B310) shall not exceed 4.07 tons on a rolling 12-month basis.



Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 5.5 pounds/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

i. Emissions Limitation – B307, B308, B309 and B310 combined

The combined volume of natural gas used in these emissions units shall not exceed 2,000 MMscf on a rolling 12-month basis.

The combined NOx emissions from these emissions units shall not exceed 100.0 tons on a rolling 12-month basis.

The combined CO emissions from these emissions units shall not exceed 100.0 tons on a rolling 12-month basis.

The combined particulate emissions from these emissions units shall not exceed 7.60 tons on a rolling 12-month basis.

Applicable Compliance Method –

Compliance will be based on the monitoring and record keeping requirements of d)(3) and d)(4).

j. Emissions Limitation –

Visible particulate emissions from any stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method –

If requested, compliance will be demonstrated based on the results of emissions testing according to U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

k. Emissions Limitation –

The particulate emissions from each emissions unit shall not exceed 0.02 pound per million Btu of actual heat input.

Applicable Compliance Method –

If requested, compliance will be demonstrated based on the results of emissions testing according to U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(9).

[Authority for term OAC rule 3745-77-07(C)(1) and PTI P0119472]

- (2) The permittee shall conduct, or have conducted, emissions testing for each emissions unit (B307, B308, B309 and B310) in accordance with the following requirements:
- a. The emissions testing shall be conducted to demonstrate compliance with the 0.10 pound NO_x per million Btu actual heat input and 0.10 pound CO per million Btu actual heat input.
 - b. Testing shall be conducted within twelve months of permit issuance and annually thereafter. If the emissions testing demonstrates that the emissions unit operated at less than ninety percent (90%) of the allowable NO_x or CO emission limitation during the test, then the permittee need not conduct annual compliance testing and shall conduct compliance testing at the midterm (approximately 2.5 years after permit issuance) of this permit and once within six months of the expiration of this permit. Should any compliance testing conducted for any emissions unit demonstrate that the emissions unit operated at greater than 90% of the allowable NO_x or CO mass emission limitation, then the permittee shall revert to annual NO_x and CO emissions testing for that emissions unit for the duration of the permit term.
 - c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

NO_x - U.S. EPA Reference Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A

CO - U.S. EPA Reference Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA approved test methods may be used with prior approval from the Ohio EPA.
 - d. During the emissions testing, the emissions unit shall be operated under operational conditions approved in advance by the appropriate Ohio EPA District Office or local air agency. Operational conditions that may need to be approved include, but are not limited to, heat input or natural gas usage rates. In general, testing shall be completed under "worst case" conditions expected during the life of the permit. As part of the information provided in the "Intent to Test" notification form described below, the permittee shall provide a description of the emissions unit operational conditions they will meet during the emissions testing and describe why they represent "worst case". Prior to conducting the test(s), the permittee shall confirm with the appropriate Ohio EPA District Office or local air agency that the proposed operating conditions constitute "worst case". Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.
 - e. Not later than 60 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be



conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).

- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the tests, examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the tests. The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

[Authority for term OAC rule 3745-77-07(C)(1) and PTI P0119472]

g) Miscellaneous Requirements

- (1) None.



12. Emissions Unit Group -Boilers F/31240 NG: B607,B608,B609,

EU ID	Operations, Property and/or Equipment Description
B607	Facility 31240, boiler No. 5; natural gas-fired; 169 million BTU per hour nominal heat input
B608	Facility 31240, boiler No. 6; natural gas-fired; 169 million BTU per hour nominal heat input
B609	Facility 31240, boiler No. 7; natural gas-fired; 99.8 million BTU per hour nominal heat input

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) June 30, 2008	<u>Emissions Units B607, B608 and B609</u> See b)(2)a. and b)(2)b. The nitrogen oxides (NOx) emissions from each emissions unit shall not exceed 0.10 pound per million Btu actual heat input. The carbon monoxide (CO) emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.
b.	OAC rule 3745-31-05(A)(3) June 30, 2008	<u>Emissions Units B607 and B608:</u> The particulate emissions from each emissions unit shall not exceed 5.63 tons on a rolling 12-month basis (the particulate emissions consist of the particulate matter less than 10 microns (PM-10), particulate matter less than 2.5 microns (PM-2.5) and condensable particulate matter fractions). The sulfur dioxide (SO ₂) emissions from each emissions unit shall not exceed 0.44

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>ton on a rolling 12-month basis.</p> <p>The volatile organic compound (VOC) emissions from each emissions unit shall not exceed 4.07 tons on a rolling 12-month basis.</p> <p><u>Emissions Units B609:</u></p> <p>The particulate emissions from this emissions unit shall not exceed 3.32 tons on a rolling 12-month basis (the particulate emissions consist of the PM-10, PM-2.5 and condensable particulate matter fractions).</p> <p>The SO₂ emissions from each emissions unit shall not exceed 0.26 ton on a rolling 12-month basis.</p> <p>The VOC emissions from each emissions unit shall not exceed 2.40 tons on a rolling 12-month basis.</p> <p>See b)(2)b. through b)(2)d.</p> <p>Compliance with this rule also includes compliance with OAC rules 3745 -17-07(A) and 3745-17-10(B), 40 CFR Part 60, Subpart Dc and 40 CFR Part 63, Subpart DDDDD.</p>
c.	OAC rule 3745-31-05(A)(3)(a)(ii) June 30, 2008	See b)(2)e.
d.	OAC rule 3745-31-05(D) Synthetic Minor to avoid major new source review	<p>The combined NOx emissions from these emissions units shall not exceed 120.0 tons on a rolling 12-month basis.</p> <p>The combined CO emissions from these emissions units shall not exceed 120.0 tons on a rolling 12-month basis.</p> <p>The combined particulate emissions from these emissions units shall not exceed 9.12 tons on a rolling 12-month basis (the particulate emissions consist of the PM-10, PM-2.5 and condensable particulate matter fractions).</p>



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		See b)(2)b., and b)(2)f.
e.	OAC rule 3745-17-07(A)(1)	Visible particulate emissions from any stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
f.	OAC rule 3745-17-10(B)(1)	The particulate emissions from each emissions unit shall not exceed 0.02 pound per million Btu of actual heat input.
g.	OAC rule 3745-114-01 and ORC 3704.03(F)	See d)(5) through d)(8) and e)(3)
h.	40 CFR Part 60, Subpart Dc	See b)(2)g.
i.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and b)(2)b.

(2) Additional Terms and Conditions

- a. The BAT determination for these emissions units includes:
 - i. Use of only natural gas as fuel;
 - ii. The use of low NOx burners and a continuous oxygen trim system to control air-to-fuel ratio; and
 - iii. Employment of good combustion practices and a continuous oxygen trim system to control air-to-fuel ratio to reduce CO emissions.
- b. This Best Available Technology (BAT) emissions limitation applies until U.S. EPA approves the Ohio Administrative Code (OAC) paragraph 3745-31-05(A)(3)(ii) (the less than 10 tons per year BAT exemption) into the Ohio State Implementation Plan (SIP).
- c. The particulate, SO₂, and VOC emissions limitations for each emissions unit were established to reflect the potential to emit for each emissions unit. Therefore, it is not necessary to establish monitoring or record keeping for these emissions limitations.
- d. The requirements of this rule apply once U.S. EPA approves OAC paragraph 3745-31-05(A)(3)(a)(ii) (the less than 10 tons per year BAT exemption) as part of the Ohio SIP. The BAT requirements of OAC rule 3745-31-05(A)(3) do not apply to the particulate, VOC and SO₂ emissions from these emissions units because the uncontrolled potential emissions are less than 10 tons per year.
- e. The combined volume of natural gas used in emissions units B607, B608 and B609 shall not exceed 2,400 MMscf on a rolling 12-month basis. To ensure enforceability during the first 12 months of operation, the permittee shall not exceed the fuel use volume specified in the following table:



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<u>Month</u>	<u>Cumulative natural gas use (MMscf)</u>
1	600
1-2	1,200
1-3	1,800
1-4	2,400
1-5	2,400
1-6	2,400
1-7	2,400
1-8	2,400
1-9	2,400
1-10	2,400
1-11	2,400
1-12	2,400

After the first 12 months of operation compliance with the rolling 12-month natural gas use limitation shall be based on a rolling 12-month sum of the actual natural gas use rates for the previous 12 months.

- f. New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units - Emissions unit B609 is a steam generating unit as defined in 40 CFR 60.41, however, there are no standards for units that only burn natural gas.

- c) Operational Restrictions
 - (1) The permittee shall burn only natural gas in these emissions units.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- 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 used in these emissions units.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

 - (2) The permittee shall install, operate, and maintain equipment to monitor and record the natural gas flow rates to these emissions units, in standard cubic feet per hour (scfh). The monitoring device and any recorder shall be installed, calibrated, operated, and maintained in accordance with manufacturer recommendations, instructions, and operating manuals and/or the permittee's established protocols for proper operation. The flow monitoring equipment shall have an accuracy of within plus or minus five percent (5%). The monitoring device and any recorder shall be maintained in continuous operation when these emissions units are in operation, except during periods of calibration, adjustment, or repair conducted in accordance with the maintenance and calibration schedules provided by the permittee, unless otherwise specified in the applicable monitoring requirements of 40 CFR Part 60 for these emissions units.
 [Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (3) The permittee shall maintain monthly records of the following information for each emissions unit:
- a. the total quantity of natural gas used in each emissions unit, each month, in MMscf, in accordance with d)(2);
 - b. the average heat content, in Btu per cubic foot, of the natural gas combusted in each emissions unit;
 - c. the actual heat input, in MMBtu, for each emissions unit [(d)(3)a. multiplied by d)(3)b. divided by one million];
 - d. the total NO_x emissions for each month, in tons (determined by multiplying the total heat input for each month (as determined in d)(3)c.) by the emission rate, in pound NO_x/MMBtu heat input determined in the last stack test that showed each emissions unit was in compliance divided by 2,000 pounds per ton);
 - e. the total CO emissions for each month, in tons (determined by multiplying the total heat input for each month (as determined in d)(3)c.) by the emission rate, in pound CO/MMBtu heat input determined in the last stack test that showed each emissions unit was in compliance divided by 2,000 pounds per ton);
 - f. the total particulate emissions for each month, in tons, determined by multiplying the total natural gas use for each month (as determined in d)(3)a.) by the emission rate, in pounds particulate/MMScf for each fraction (PM-10 and condensable) divided by 2,000 pound per ton.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (4) The permittee shall maintain monthly records of the following information as a combined total for emissions units B607, B608 and B609:
- a. the total quantity of natural gas used, each month, in MMscf on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative natural gas use for each calendar month (i.e., the sum of the monthly natural gas use rates for each emissions unit calculated in d)(3)a. above for the previous 12 months),
 - b. the total NO_x emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative NO_x emissions for each calendar month (i.e., the sum of the monthly emissions rates for each emissions unit calculated in d)(3)d. above for the previous 12-months);
 - c. the total CO emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative CO emissions for each calendar month (i.e., the sum of the monthly emissions rates for each emissions unit calculated in d)(3)e. above for the previous 12-months);
 - d. the total particulate emissions, for each month, in tons, on a rolling 12-month basis or during the first 12 calendar months of operation the cumulative particulate emissions for each calendar month (i.e., the sum of the monthly

emissions rates for each emissions unit calculated in d)(3)f. above for the previous 12-months).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (5) The PTI application for emissions units, B607 and B608, was evaluated based on the actual materials and the design parameters of the emissions unit's(s) exhaust system, as specified by the permittee. The "Toxic Air Contaminant Statute", ORC 3704.03(F), was applied to this/these emissions unit(s) for each toxic air contaminant listed in OAC rule 3745-114-01, using data from the permit application; and modeling was performed for each toxic air contaminant(s) emitted at over one ton per year using an air dispersion model such as SCREEN3, AERMOD, or ISCST3, or other Ohio EPA approved model. The predicted 1-hour maximum ground-level concentration result(s) from the approved air dispersion model, was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC), calculated as described in the Ohio EPA guidance document entitled "Review of New Sources of Air Toxic Emissions, Option A", as follows:
- a. the exposure limit, expressed as a time-weighted average concentration for a conventional 8-hour workday and a 40-hour workweek, for each toxic compound(s) emitted from the emissions unit(s), (as determined from the raw materials processed and/or coatings or other materials applied) has been documented from one of the following sources and in the following order of preference (TLV was and shall be used, if the chemical is listed):
 - i. threshold limit value (TLV) from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; or
 - ii. STEL (short term exposure limit) or the ceiling value from the American Conference of Governmental Industrial Hygienists (ACGIH) "Threshold Limit Values for Chemical Substances and Physical Agents Biological Exposure Indices"; the STEL or ceiling value is multiplied by 0.737 to convert the 15-minute exposure limit to an equivalent 8-hour TLV.
 - b. The TLV is divided by ten to adjust the standard from the working population to the general public (TLV/10).
 - c. This standard is/was then adjusted to account for the duration of the exposure or the operating hours of the emissions unit(s), i.e., "X" hours per day and "Y" days per week, from that of 8 hours per day and 5 days per week. The resulting calculation was (and shall be) used to determine the Maximum Acceptable Ground-Level Concentration (MAGLC):
$$\text{TLV}/10 \times 8/X \times 5/Y = 4 \text{ TLV}/XY = \text{MAGLC}$$
 - d. The following summarizes the results of dispersion modeling for the significant toxic contaminants (emitted at 1 or more tons/year) or "worst case" toxic contaminant(s):

Toxic Contaminant: Hexane.
TLV (mg/m³): 176
Maximum Hourly Emission Rate (pounds/hour): 0.60
Predicted 1-Hour Maximum Ground-Level Concentration (µg/m³): 0.80
MAGLC (µg/m³): 4,200

The permittee, has demonstrated that emissions of hexane, from emissions units B607 and B608, are calculated to be less than eighty per cent of the maximum acceptable ground level concentration (MAGLC); any new raw material or processing agent shall not be applied without evaluating each component toxic air contaminant in accordance with the "Toxic Air Contaminant Statute", ORC 3704.03(F).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (6) Prior to making any physical changes to or changes in the method of operation of the emissions unit(s), that could impact the parameters or values that were used in the predicted 1-hour maximum ground-level concentration, the permittee shall re-model the change(s) to demonstrate that the MAGLC has not been exceeded. Changes that can affect the parameters/values used in determining the 1-hour maximum ground-level concentration include, but are not limited to, the following:
- a. changes in the composition of the materials used or the use of new materials, that would result in the emission of a new toxic air contaminant with a lower Threshold Limit Value (TLV) than the lowest TLV previously modeled;
 - b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any toxic air contaminant listed in OAC rule 3745-114-01, that was modeled from the initial (or last) application; and
 - c. physical changes to the emissions unit(s) or its/their exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

If the permittee determines that the "Toxic Air Contaminant Statute" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to a non-restrictive change to a parameter or process operation, where compliance with the "Toxic Air Contaminant Statute", ORC 3704.03(F), has been documented. If the change(s) meet(s) the definition of a "modification", the permittee shall apply for and obtain a final PTI prior to the change. The Director may consider any significant departure from the operations of the emissions unit, described in the permit application, as a modification that results in greater emissions than the emissions rate modeled to determine the ground level concentration; and he/she may require the permittee to submit a permit application for the increased emissions.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (7) The permittee shall collect, record, and retain the following information for each toxic evaluation conducted to determine compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F):
- a. a description of the parameters/values used in each compliance demonstration and the parameters or values changed for any re-evaluation of the toxic(s) modeled (the composition of materials, new toxic contaminants emitted, change in stack/exhaust parameters, etc.);
 - b. the Maximum Acceptable Ground-Level Concentration (MAGLC) for each significant toxic contaminant or worst-case contaminant, calculated in accordance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F);
 - c. a copy of the computer model run(s), that established the predicted 1-hour maximum ground-level concentration that demonstrated the emissions unit(s) to be in compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), initially and for each change that requires re-evaluation of the toxic air contaminant emissions; and
 - d. the documentation of the initial evaluation of compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), and documentation of any determination that was conducted to re-evaluate compliance due to a change made to the emissions unit(s) or the materials applied.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (8) The permittee shall maintain a record of any change made to a parameter or value used in the dispersion model, used to demonstrate compliance with the “Toxic Air Contaminant Statute”, ORC 3704.03(F), through the predicted 1-hour maximum ground level concentration. The record shall include the date and reason(s) for the change and if the change would increase the ground-level concentration.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

e) Reporting Requirements

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

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (2) The permittee shall submit quarterly deviation reports that identify the following:
- a. all exceedances of the 2,400 MMscf rolling 12-month natural gas use limitation;
 - b. all exceedances of the 120.0 tons NO_x rolling 12-month emissions limitation;
 - c. all exceedances of the 120.0 tons CO rolling 12-month emissions limitation;
 - d. all exceedances of the 9.12 tons particulate rolling 12-month emissions limitation;



- e. the probable cause of each deviation;
- f. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations; and
- g. the magnitude and duration of each deviation.

If no deviations occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (3) The permittee shall submit annual reports that include any changes to any parameter or value used in the dispersion model used to demonstrate compliance with the Toxic Air Contaminant Statute, ORC 3704.03(F), through the predicted 1 hour maximum concentration. The report should include:
 - a. the original model input;
 - b. the updated model input;
 - c. the reason for the change(s) to the input parameter(s); and
 - d. a summary of the results of the updated modeling, including the input changes; and
 - e. a statement that the model results indicate that the 1-hour maximum ground-level concentration is less than 80% of the MAGLC.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

- (4) If no changes to the emissions, emissions units, or the exhaust stack have been made during the reporting period, then the report shall include a statement to that effect.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

f) **Testing Requirements**

- (1) Compliance with the Emissions Limitations specified in b) shall be determined in accordance with the following methods:
 - a. Emissions Limitation –

The NO_x emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.



Applicable Compliance Method –

Compliance shall be based on emissions testing conducted according to U.S. EPA Reference Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A. See f)(2).

b. Emissions Limitation –

The CO emissions from each emissions unit shall not exceed 0.10 pound per million Btu of actual heat input.

Applicable Compliance Method –

Compliance shall be based on emissions testing conducted according to U.S. EPA Reference Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A. See f)(2).

c. Emissions Limitation –

The particulate emissions from emissions unit B609 shall not exceed 3.32 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation was developed by multiplying the maximum natural gas fuel use in each emissions unit (0.0998 MMscf/hour) multiplied by the emission factor of 7.6 pounds particulate/MMscf (the sum of the 5.7 pounds filterable particulate/MMscf plus 1.9 pounds condensable particulate/MMscf from U.S. EPA, AP-42, Table 1.4-2, 7/98) and the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

d. Emissions Limitation –

The SO₂ emissions from emissions unit B609 shall not exceed 0.26 ton on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.0998 MMscf/hour) multiplied by the emission factor of 0.6 pound/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton. Therefore, compliance with the hourly emissions limitation will also ensure compliance with the annual emissions limitation.

e. Emissions Limitation –

The VOC emissions from emissions unit B609 shall not exceed 2.40 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.0998 MMscf/hour) multiplied by the emission factor of 5.5 pounds/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

f. Emissions Limitation –

The particulate emissions from each emissions unit (B607 and B608) shall not exceed 5.63 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 7.6 pounds particulate/MMscf (the sum of the 5.7 pounds filterable particulate/MMscf plus 1.9 pounds condensable particulate/MMscf from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

g. Emissions Limitation –

The SO₂ emissions from each emissions unit (B607 and B608) shall not exceed 0.44 ton on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 0.6 pound/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

h. Emissions Limitation –

The VOC emissions from each emissions unit (B607 and B608) shall not exceed 4.07 tons on a rolling 12-month basis.

Applicable Compliance Method –

This emissions limitation is based on the maximum natural gas fuel use in each emissions unit (0.169 MMscf/hour) multiplied by the emission factor of 5.5 pounds/MMscf (from U.S. EPA, AP-42, Table 1.4-2, 7/98) and multiplying the hourly emissions rate by 8,760 hours per year and dividing by 2,000 pounds per ton.

i. Emissions Limitation – B607, B608 and B609 combined

The combined volume of natural gas used in these emissions units shall not exceed 2,400 MMscf on a rolling 12-month basis.

The combined NO_x emissions from these emissions units shall not exceed 120.0 tons on a rolling 12-month basis.

The combined CO emissions from these emissions units shall not exceed 120.0 tons on a rolling 12-month basis.

The combined particulate emissions from these emissions units shall not exceed 9.12 tons on a rolling 12-month basis.

Applicable Compliance Method –

Compliance will be based on the monitoring and record keeping requirements of d)(3) and d)(4).

j. Emissions Limitation –

Visible particulate emissions from any stack serving each emissions unit shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method –

If requested, compliance will be demonstrated based on the results of emissions testing according to U.S. EPA Reference Method 9 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(1).

k. Emissions Limitation –

The particulate emissions from each emissions unit shall not exceed 0.02 pound per million Btu of actual heat input.

Applicable Compliance Method –

If requested, compliance will be demonstrated based on the results of emissions testing according to U.S. EPA Reference Method 5 of 40 CFR Part 60, Appendix A and OAC rule 3745-17-03(B)(9).

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

(2) The permittee shall conduct, or have conducted, emission testing for each emissions unit (B607, B608 and B609) in accordance with the following requirements:

- a. Testing shall be conducted within twelve months of permit issuance and annually thereafter. If the emissions testing demonstrates that the emissions unit operated at less than ninety percent (90%) of the allowable NO_x or CO emission limitation during the test, then the permittee need not conduct annual compliance testing and shall conduct compliance testing at the midterm (approximately 2.5

years after permit issuance) of this permit and once within six months of the expiration of this permit. Should any compliance testing conducted for any emissions unit demonstrate that the emissions unit operated at greater than 90% of the allowable NO_x or CO mass emission limitation, then the permittee shall revert to annual NO_x and CO emissions testing for that emissions unit for the duration of the permit term.

- b. The emission testing shall be conducted to demonstrate compliance with the 0.10 pound NO_x per million Btu actual heat input and 0.10 pound CO per million Btu actual heat input.
- c. The following test method(s) shall be employed to demonstrate compliance with the allowable mass emission rate(s):

NO_x - U.S. EPA Reference Methods 1 through 4 and 7E of 40 CFR Part 60, Appendix A

CO - U.S. EPA Reference Methods 1 through 4 and 10 of 40 CFR Part 60, Appendix A

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

- d. During the emissions testing, the emissions unit shall be operated under operational conditions approved in advance by the appropriate Ohio EPA District Office or local air agency. Operational conditions that may need to be approved include, but are not limited to, heat input or natural gas usage rates. In general, testing shall be completed under "worst case" conditions expected during the life of the permit. As part of the information provided in the "Intent to Test" notification form described below, the permittee shall provide a description of the emissions unit operational conditions they will meet during the emissions testing and describe why they represent "worst case". Prior to conducting the test(s), the permittee shall confirm with the appropriate Ohio EPA District Office or local air agency that the proposed operating conditions constitute "worst case". Failure to test under the approved conditions may result in Ohio EPA not accepting the test results as a demonstration of compliance.
- e. Not later than 60 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- f. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit



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and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

- g. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.

[Authority for term OAC rule 3745-77-07(A)(3) and PTI P0119472]

g) **Miscellaneous Requirements**

- (1) None.

13. Emissions Unit Group -Boilers F/34019: B604,B605,B660,

EU ID	Operations, Property and/or Equipment Description
B604	Boiler; 18.3 MMBtu; natural gas-fired; F/34019
B605	Boiler; 18.3 MMBtu; natural gas-fired; F/34019
B660	Boiler; 18.75 MMBtu; natural gas-fired; F/34019

- 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) B604 - PTI 08-179 B605 – PTI 08-180	<u>Emissions Units B604 and B605:</u> The particulate emissions (PE) from each of these emissions units shall not exceed 0.61 ton per year. The sulfur dioxide (SO ₂) emissions from each of these emissions units shall not exceed 0.02 ton per year. See c)(1) thorough c)(3). The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B) and 3745-17-07(A).
b.	OAC rule 3745-31-05(A)(3) B660 - PTI 08-3554	<u>Emissions Unit B660:</u> The PE from this emissions unit shall not exceed 0.38 pound per hour and 1.24 tons per year. The nitrogen oxides (NO _x) emissions from this emission unit shall not exceed 0.91pound per hour and 2.98 tons per year.



Effective Date: To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>The SO₂ emissions from this emissions unit shall not exceed 0.01 pound per hour and 0.04ton per year.</p> <p>The carbon monoxide (CO) emissions from this emissions unit shall not exceed 1.53 pounds per hour and 5.01 tons per year.</p> <p>The volatile organic compound (VOC) emissions from this emissions unit shall not exceed 0.11 pound per hour and 0.35 ton per year.</p> <p>See b)(2)a.</p> <p>The requirements of this rule also include compliance with the requirements of OAC rules 3745-17-10(B), 3745-17-07(A) and 40 CFR and Part 63, Subpart DDDDD.</p>
c.	OAC rule 3745-17-07(A)	Visible particulate emissions from the stack serving these emissions units shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.
d.	OAC rule 3745-17-10(B)	The PE from these emissions units shall not exceed 0.020 pound per million Btu actualheat input.
e.	40 CFR Part 63, Subpart DDDDD	See Section B.2. and c)(1).

(2) Additional Terms and Conditions

a. The hourly emissions limitations for emissions unit B660 were developed for PTI purposes to reflect the potentials to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits.

c) Operational Restrictions

(1) The permittee shall burn only natural gas in these emissions units.

[Authority for term: OAC rule 3745-77-03(A)(3) and PTIs 08-179, 08-180 and 08-3554]

(2) The maximum annual operating hours for emissions unit B604 or B605 shall not exceed 3,696 hours.

[Authority for term: OAC rule 3745-77-03(A)(3) and PTIs 08-179 and 08-180]

- (3) The annual operating hours for emissions unit B660 shall not exceed 6,552 hours.

[Authority for term: OAC rule 3745-77-03(A)(3) and PTI 08-3554]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall calculate and maintain monthly records of the following information for each of these emissions units:

- a. the natural gas usage rate, in million cubic feet,
- b. The emission rates for PE and SO₂, in tons, calculated as follows:
 - i. for PE, multiply the monthly natural gas usage rate, from d)(1)a. by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Chapter 1.4-1 (revised 7/98) divided by 2,000 pounds per ton.
 - ii. for SO₂, multiply the monthly natural gas usage rate, from d)(1)a. by the emission factor of 0.6 pound SO₂/million cubic feet, from AP-42, Chapter 1.4-2 (revised 7/98), divided by 2,000 pounds per ton.
- c. The hours of operation for each emissions unit.

[Authority for term: OAC rule 3745-77-07(A)(3) and PTIs 08-179, 08-180 and 08-3554]

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

[Authority for term: OAC rule 3745-77-07(A)(3) and PTIs 08-179, 08-180 and 08-3554]

- (3) The permittee shall calculate and maintain monthly records of the following information for emissions unit B660:

- a. the NOx emissions, in tons, calculated as follows:
 - i. multiply the total natural gas burned, from d)(1)a., by the emission factor for natural gas combustion with low NOx burners of 50 pounds NOx/million cubic feet, as specified in AP-42 Table 1.4-2 (revised 7/98) divided by 2,000 pounds per ton.
- b. the CO emissions, in tons, calculated as follows;
 - i. multiply the total natural gas burned, from d)(1)a., by the emission factor of 84 pounds CO/million cubic feet, as specified in AP-42 Table 1.4-1 (revised 7/98) divided by 2,000 pounds per ton.
- c. the VOC emissions, in tons, calculated as follows:

- i. multiply the total natural gas burned, from d)(1)a., by the emission factor of 5.5 pounds VOC/million cubic feet, as specified in AP-42 Table 1.4-2 (revised 7/98) divided by 2,000 pounds per ton.

[Authority for term: OAC rule 3745-77-07(A)(3) and PTI 08-3554]

e) Reporting Requirements

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

[Authority for term: OAC rule 3745-77-07(C)(1), PTIs 08-179, 08-180 and 08-3554]

- (2) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency), in writing, of any record that shows an exceedance of the allowable sulfur dioxide emission limitation, as shown by the calculated sulfur dioxide emission rates for these emissions units from d)(1)c. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the deviation occurs.

[Authority for term: OAC rule 3745-77-07(C)(1), PTIs 08-179, 08-180 and 08-3554]

- (3) The permittee shall submit annual reports that summarize the following information for the previous calendar year:

- a. the total hours of operation for each of these emissions units;
- b. the PE emissions rate, in tons for each of these emissions units;
- c. the SO₂ emissions rate, in tons, for each of these emissions units;
- d. the NO_x emissions rate, in tons, for each of these emissions units;
- e. the CO emissions rate, in tons, for each of these emissions units; and
- f. the VOC emissions rate, in tons, for each of these emissions units.

The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for each emissions unit in the annual FER.

[Authority for term: OAC rule 3745-77-07(C)(1), PTIs 08-179, 08-180 and 08-3554]

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1)a. of these terms and conditions for emissions units B604 and B605 shall be determined in accordance with the following method(s):



- a. Emissions Limitation –

The PE from each of these emissions units shall not exceed 0.61 ton per year.

Applicable Compliance Method -

Compliance shall be based upon record keeping requirements specified d)(1) and shall be the sum of the monthly PE rates for the calendar year.

- b. Emission Limitation -

The SO₂ emissions from each of these emissions units shall not exceed 0.02 ton per year.

Applicable Compliance Method –

Compliance shall be based upon record keeping requirements specified d)(1) and shall be the sum of the monthly SO₂ emission rates for the calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1), PTIs 08-179 and 08-180]

- (2) Compliance with the emission limitation(s) in b)(1)b. of these terms and conditions for emissions unit B660 shall be determined in accordance with the following method(s):
 - a. Emission Limitation -

The PE from this emissions unit shall not exceed 0.38 pound per hour.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (1.9 pounds PE/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

 - b. Emission Limitation -

The PE from this emissions unit shall not exceed 1.24 tons per year.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements of d)(1) and shall be the sum of the 12 monthly PE rates for the calendar year.

 - c. Emission Limitation -

The NO_x emissions from this emission unit shall not exceed 0.91 pound per hour.



Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas combustion with low NO_x burners (50 pounds NO_x/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If required, the permittee shall demonstrate compliance with the hourly allowable NO_x emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 7.

d. Emission Limitation -

The NO_x emissions from this emission unit shall not exceed 2.98 tons per year

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements established in d)(4) and shall be the summation of the 12 monthly NO_x emission rates for the calendar year.

e. Emission Limitation -

The SO₂ emissions from this emissions unit shall not exceed 0.01 pound per hour.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (0.6 pound SO₂/million cubic feet), from AP-42, Table 1.4-2 (7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If required, compliance with the limitation above shall be demonstrated in accordance with U.S. Reference Methods 1 through 4 and 6.

f. Emission Limitation -

The SO₂ emissions from this emissions unit shall not exceed 0.04 ton per year.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements established in d)(1) and shall be the summation of the 12 monthly SO₂ emission rates for the calendar year.

g. Emission Limitation -

The CO emissions from this emissions unit shall not exceed 1.53 pounds per hour.



Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (84 pounds CO/million cubic feet), from AP-42, Table 1.4-1 (revised 7/98), by the maximum hourly gas burning capacity (0.1875 million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable CO emission limitation in accordance with U.S. Reference Methods 1 - 4 and 10.

h. Emission Limitation -

The carbon monoxide (CO) emissions from this emissions unit shall not exceed 5.01 tons per year.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements established in d)(4) and shall be the summation of the 12 monthly CO emission rates for the calendar year.

i. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 0.11 pound per hour.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the emission factor for natural gas (5.5 pounds VOC/million cubic feet), from AP-42, Table 1.4-2 (revised 7/98), by the maximum hourly gas burning capacity (0.01875 million cubic feet/hour) of the emissions unit.

If requested, the permittee shall demonstrate compliance with the hourly allowable VOC emission limitation in accordance with U.S. EPA Reference Methods 1 - 4 and 18, 25, or 25A, as appropriate.

j. Emission Limitation -

The VOC emissions from this emissions unit shall not exceed 0.35 ton per year.

Applicable Compliance Method -

Compliance shall be based upon the record keeping requirements established in d)(4) this permit and shall be the summation of the 12 monthly VOC emission rates for the calendar year.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTI 08-3554]



(3) Compliance with the emission limitation(s) in b)(1)c. b)(1)d. and b)(1)e. for these emissions units shall be determined in accordance with the following method(s):

a. Emission Limitation -

The PE from these emissions units shall not exceed 0.020 pound per million Btu actual heat input.

Applicable Compliance Method -

When burning natural gas, compliance shall be determined by multiplying the maximum hourly gas burning capacity of the emissions unit (million cubic feet/hour) by the emission factor of 1.9 pounds PE/million cubic feet, from AP-42, Chapter 1.4-2 (revised 7/98), and then dividing by the maximum hourly heat input capacity of the emissions unit (mmBtu/hour).

If requested, compliance with the limitation above shall be demonstrated in accordance with OAC rule 3745-17-03(B)(9) and U.S. EPA Reference Methods 1 through 5.

b. Emission Limitation -

Visible particulate emissions from the stack serving these emissions units shall not exceed 20 percent opacity as a six-minute average, except as provided by rule.

Applicable Compliance Method -

If requested, 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 Reference Method 9.

[Authority for term: OAC rule 3745-77-07(C)(1) and PTIs 08-179, 08-180 and 08-3554]

g) Miscellaneous Requirements

(1) None.



14. Emissions Unit Group -Flightline Aircraft Paint Repair: K608,K609,K610,

EU ID	Operations, Property and/or Equipment Description
K608	Fuel cell facility; F/34007
K609	Structural repair and corrosion control facility; F/34016
K610	Aircraft maintenance and ISO facility; F/34015

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 08-2815	The volatile organic compound (VOC) emissions from each emissions unit including cleanup shall not exceed 160 pounds per month and 1.0 tons per year. See c)(1) Compliance with this rule also includes compliance with OAC rules 3745-17-07(A), 3745-17-11, 3745-21-09(U)(2)(e)(i) and 40 CFR Part 63, Subpart GG.
b.	OAC rule 3745-21-09(U)(2)(e)(i)	The volume of coating applied in each emissions unit shall not exceed 8 gallons per day.
c.	OAC rule 3745-17-11(C)	See b)(2)b.
d.	40 CFR Part 63, Subpart GG	See Section B.3.

(2) Additional Terms and Conditions

a. These emissions units are not subject to the particulate emissions limitations of OAC rule 3745-17-11(C). According to OAC rule 3745-17-11(A)(1)(i), surface coating processes that use less than five gallons of coatings per day, provided the owner or operator maintains coating usage records, coating purchase records, and/or production records that clearly demonstrate the actual coating usage is less than five gallons per day. The coating operations completed in

these emissions units consists of touch up painting on the interior and exterior surfaces of active duty military aircraft.

c) Operational Restrictions

- (1) The volume of coatings and cleanup materials combined applied in each emissions units shall not exceed 40 gallons per month.

[Authority for term PTI 08-2815]

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall collect and record the following information each day for each emissions unit.

- a. the name and identification of each coating employed;
- b. the volume, in gallons, of each coating employed; and
- c. the total volume, in gallons, of all of the coatings employed.

[Authority for term OAC rules 3745-21-09(B)(3)(d) and 3745-77-07(A)(3), PTI 08-2815]

- (2) The permittee shall collect and record the following information on a monthly basis for the coating and cleanup materials applied in each emissions unit:

- a. the volume, in gallons, of each coating applied or all coatings applied during the month;
- b. the maximum VOC content for each of the coatings applied, in pounds per gallon;
- c. the total VOC emissions from all coatings applied, (i.e., the summation of the products of d)(2)a. times d)(2)b. for each individual coating applied);
- d. the name and identification of each cleanup material employed;
- e. the VOC content of each cleanup material, in pounds per gallon;
- f. the number of gallons of each cleanup material employed;
- g. the total VOC emission rate from all cleanup materials, (i.e., the sum of the products of d)(2)e. times d)(2)f. for all cleanup materials employed); and
- h. the total VOC emissions from all coatings and cleanup materials employed, in pounds or tons, (the sum of d)(2)c. and d)(2)g.).

These monthly records shall be maintained for the purpose of determining annual VOC emissions for each emissions unit.

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

e) Reporting Requirements

- (1) The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any daily record showing that the paint operation employed more than the applicable maximum daily coating usage limit of 8 gallons. The notification shall include a copy of such record and shall be sent to the Director (the appropriate Ohio EPA District Office or local air agency) within 45 days after the exceedance occurs.

[Authority for term OAC rules 3745-21-09(B)(3)(d) and 3745-77-07(C)(1), PTI 08-2815]

- (2) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. Any exceedances of the 160 pounds VOC per month emission limitation.
 - b. any exceedances of the 40 gallons per month coating and cleanup material usage limitation for these emissions units.

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

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

- (3) The permittee shall also submit annual reports that specify the total VOC emissions from each emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for each emissions unit in the annual Fee Emission Report.

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

f) Testing Requirements

- (1) Compliance with the emission limitation(s) in b)(1) of these terms and conditions shall be determined in accordance with the following method(s):

- a. Emission Limitation –

The VOC emissions from each emissions unit shall not exceed 160 pounds per month.

Applicable Compliance Method –

Compliance shall be based on the record keeping requirements of d)(2).

- b. Emission Limitation –

The VOC emissions from each emissions unit shall not exceed 1.0 ton per year.



Applicable Compliance Method –

Compliance shall be based on the record keeping requirements of d)(2) and sum of the VOC emissions for the calendar year, divided by 2,000 pounds per ton.

c. Emission Limitation –

The volume of coating applied shall not exceed 8 gallons per day.

Applicable Compliance Method -

Compliance shall be based on the record keeping requirements of d)(1).

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

g) Miscellaneous Requirements

(1) None.