

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

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In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Part II - Specific Facility Terms and Conditions

a State and Federally Enforceable Section

1. The permittee is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Engine Test Cells/Stands, 40 CFR Part 63, Subpart PTTTT. The Maximum Achievable Control Technology (MACT) standard applies to both existing and new engine test cells/stands for testing combustion turbine engines.

In accordance with 40 CFR Parts 63.9290(b) and 63.9290(d), existing engine test cells/stands and new or reconstructed engine test cells/stands located at a major source which is used exclusively for testing combustion turbine engines, respectively, do not have to meet the requirements of 40 CFR Part 63, Subpart PTTTT and of 40 CFR Part 63, Subpart A.
2. The permittee is subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Stationary Combustion Turbines, 40 CFR Part 63, Subpart YYYYY. However in accordance with 40 CFR 63.6090 (b) (4), existing Stationary Combustion Turbines do not have to meet the requirements of 40 CFR Part 63, Subpart YYYYY and of 40 CFR Part 63, Subpart A.
 - a. The permittee may be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) for Industrial/Commercial/Institutional Boilers and Process Heaters, 40 CFR 63 Subpart DDDDD and Stationary Reciprocating Internal Combustion Engines, 40 CFR 63 Subpart ZZZZ. U.S. EPA failed to promulgate these standards by May 15, 2002, the Maximum Achievable Control Technology (MACT) hammer date. In accordance with 40 CFR Part 63, Subpart B (40 CFR Parts 63.50 through 63.56), the permittee shall submit an application to revise the permit to include equivalent emission limitations as a result of a case-by-case MACT determination. The application shall be submitted in two parts. The deadline to submit the Part I application, as specified in 40 CFR Part 63.53, was May 15, 2002.
 - b. If the final NESHAP standard is not promulgated by the deadline specified by U.S. EPA, the permittee shall submit the Part II application as specified in 40 CFR Part 63.53. The Part II application shall be submitted within 60 days after the deadline to promulgate the respective standard or by May 15, 2003, whichever is later. It must contain the following information, unless otherwise specified by future U.S. EPA regulations:
 - i. for a new affected source, the anticipated date of startup of operation;
 - ii. the hazardous air pollutants (HAPs) emitted by each affected source in the relevant source category and an estimated total uncontrolled and controlled emission rate for HAPs from the affected source;
 - iii. any existing federal, State, or local limitations or requirements applicable to the affected source;
 - iv. for each affected emission point or group of affected emission points, an identification of control technology in place;
 - v. information relevant to establishing the MACT floor (or MACT emission limitation), and, at the option of the permittee, a recommended MACT floor; and
 - vi. any other information reasonably needed by the permitting authority including, at the discretion of the permitting authority, information required pursuant to Subpart A of 40 CFR Part 63.
 - c. The Part II application for a MACT determination may, but is not required to, contain the following information:
 - i. recommended emission limitations for the affected source and support information (the permittee may recommend a specific design, equipment, work practice, or operational standard, or combination thereof, as an emission limitation);
 - ii. a description of the control technologies that would be applied to meet the emission limitation, including technical information on the design, operation, size, estimated control efficiency and any other information deemed appropriate by the permitting authority, and identification of the affected sources to which the control technologies must be applied; and
 - iii. relevant parameters to be monitored and frequency of monitoring to demonstrate continuous compliance with the MACT emission limitation over the applicable reporting period.

- d. If the NESHAP is promulgated before the Part II application is due for the relevant source category, the permittee may be subject to the rule as an existing major source with a compliance date as specified in the NESHAP. If subject, the permittee shall submit the following notifications:
 - i. Unless otherwise specified in the relevant Subpart, within 120 days after promulgation of a 40 CFR Part 63 Subpart to which the source is subject, the permittee shall submit an Initial Notification Report that contains the following information, in accordance with 40 CFR Part 63.9(b)(2):
 - (a) the name and mailing address of the permittee;
 - (b) the physical location of the source if it is different from the mailing address;
 - (c) identification of the relevant MACT standard and the source's compliance date;
 - (d) a brief description of the nature, design, size, and method of operation of the source, and an identification of the types of emission points within the affected source subject to the relevant standard and the types of HAPs emitted; and
 - (e) a statement confirming the facility is a major source for HAPs.
 - ii. Unless otherwise specified in the relevant Subpart, within 60 days following completion of any required compliance demonstration activity specified in the relevant Subpart, the permittee shall submit a notification of compliance status that contains the following information:
 - (a) the methods used to determine compliance;
 - (b) the results of any performance tests, visible emission observations, continuous monitoring systems performance evaluations, and/or other monitoring procedures or methods that were conducted;
 - (c) the methods that will be used for determining continuous compliance, including a description of monitoring and reporting requirements and test methods;
 - (d) the type and quantity of HAPs emitted by the source, reported in units and averaging times in accordance with the test methods specified in the relevant Subpart;
 - (e) an analysis demonstrating whether the affected source is a major source or an area source;
 - (f) a description of the air pollution control equipment or method for each emission point, including each control device or method for each HAP and the control efficiency (percent) for each control device or method; and
 - (g) a statement of whether or not the permittee has complied with the requirements of the relevant Subpart.
4. For each new or existing cleaning operation subject to 40 CFR Part 63, Subpart GG, the permittee shall comply with the requirements below unless the cleaning solvent used is identified in 40 CFR 63.744 Table 1, or contains HAP or VOC below the de minimis levels specified in 40 CFR 63.741(f):
- a. place cleaning solvent-laden cloth, paper, or any other absorbent applicators used for cleaning in bags or other closed containers upon completing their use. Ensure that these bags and containers are kept closed at all times except when depositing or removing these materials from the container. Use bags and containers of such design so as to contain the vapors of the cleaning solvent. Cotton tipped swabs used for very small cleaning operations are exempt from this requirement. [40 CFR 63.744(a)(1)]
 - b. store fresh and spent cleaning solvents, except semi-aqueous solvent cleaners, used in aerospace cleaning operations in closed containers. [40 CFR 63.744(a)(2)]
 - c. conduct the handling and transfer of cleaning solvents to or from enclosed systems, vats, waste containers, and other cleaning operation equipment that hold or store fresh or spent cleaning solvents in such a manner that minimizes spills. [40 CFR 63.744(a)(3)]
5. For each new or existing hand-wipe cleaning operation (excluding cleaning of spray gun equipment) subject to 40 CFR Part 63, Subpart GG, the permittee shall use cleaning solvents that meet one of the requirements specified in (a), (b) or (c) below. Solvent cleaning solutions that contain HAP and VOC below the de minimis levels specified in 40 CFR 63.741(f), and cleaning operations identified in 40 CFR 63.744(e) are exempt from these requirements:
- a. meet one of the composition requirements in 40 CFR 63.744 Table 1 [40 CFR 63.744(b)(1)];
 - b. have a composite vapor pressure of 45 mm Hg (24.1 in. H₂O) or less at 20 degrees C (68 degrees F) [40 CFR 63.744(b)(2)]; or
 - c. demonstrate that the volume of hand-wipe cleaning solvents used in cleaning operations has been reduced by at least 60 percent from a baseline adjusted for production. The baseline shall be established as part of an approved alternative plan administered by Ohio EPA. The alternative plan shall be submitted by Ohio EPA under section 112(l) of the Federal Clean Air Act and approved by the Administrator of the U.S. EPA, and shall demonstrate that the 60 percent volume reduction in cleaning solvents provides equivalent reductions to the requirements in paragraphs 4.a and 4.b above [40 CFR 63.744(b)(3)].
6. For each new or existing flush cleaning operation subject to 40 CFR Part 63, Subpart GG (excluding those in which a solvent identified in 40 CFR 63.744 Table 1, or a semi-aqueous cleaning solvent is used), the permittee shall empty the used cleaning solvent each time aerospace parts or assemblies, or components of a coating unit (with the exception of spray guns) are flush cleaned into an enclosed container or collection system that is kept closed when not in use or into a system with equivalent emission control [40 CFR 63.744

- (d)].
7. Except as provided for in 40 CFR 63.741(e), the permittee shall conduct the handling and transfer of waste containing HAP to or from containers, tanks, vats, vessels, and piping systems in such a manner that minimizes spills [40 CFR 63.748].
 8. For each new or existing cleaning operation subject to 40 CFR Part 63, Subpart GG, the permittee shall record the information listed below, as appropriate [40 CFR 63.752(b)]:
 - a. the name, vapor pressure, and documentation showing the organic HAP constituents of each cleaning solvent used for the affected cleaning operations at the facility [40 CFR 63.752(b)(1)];
 - b. for each cleaning solvent used in hand-wipe cleaning operations that complies with the composition requirements specified in 40 CFR 63.744(b)(1), or for semi-aqueous cleaning solvents used for flush cleaning operations:
 - i. the name of each cleaning solvent used [40 CFR 63.752(b)(2)(i)];
 - ii. all data and calculations that demonstrate that the cleaning solvent complies with one of the composition requirements [40 CFR 63.752(b)(2)(ii)]; and
 - iii. annual records of the volume of each solvent used, as determined from facility purchase records or usage records [40 CFR 63.752(b)(2)(iii)].
 - c. for each cleaning solvent used in hand-wipe cleaning operations that does not comply with the composition requirements in 40 CFR 63.744(b)(1), but does comply with the vapor pressure requirements in 40 CFR 63.744(b)(2):
 - i. the name of each cleaning solvent used [40 CFR 63.752(b)(3)(i)];
 - ii. the composite vapor pressure of each cleaning solvent used [40 CFR 63.752(b)(3)(ii)];
 - iii. all vapor pressure test results, data, and calculations used to determine the composite vapor pressure of each cleaning solvent [40 CFR 63.752(b)(3)(iii)]; and
 - iv. the amount (in gallons) of each cleaning solvent used each month at each operation [40 CFR 63.752(b)(3)(iv)].
 - d. for each cleaning solvent used for the exempt hand-wipe cleaning operations specified in 40 CFR 63.744(e) that does not conform to the vapor pressure or composition requirements of 40 CFR 63.744(b):
 - i. the identity and amount (in gallons) of each cleaning solvent used each month at each operation [40 CFR 63.752(b)(4)(i)]; and
 - ii. a list of the processes set forth in 40 CFR 63.744(e) to which the cleaning operation applies [40 CFR 63.752(b)(4)(ii)].
 9. The permittee shall submit semi-annual reports, every 6 months from the date of the notification of compliance status, that identify:
 - a. any instance when a non-compliant cleaning solvent is used for a nonexempt hand-wipe cleaning operation [40 CFR 63.753(b)(1)(i)];
 - b. a list of any new cleaning solvents used for hand-wipe cleaning in the report period and their composite vapor pressures or notification that they comply with the composition requirements specified in 40 CFR 63.744(b)(1) [40 CFR 63.753(b)(1)(ii)];
 - c. if the operations have been in compliance with (a) and (b) above for the semi-annual period, a statement that the cleaning operations have been in compliance with these requirements. The permittee shall submit a statement of compliance signed by a responsible company official certifying that the facility is in compliance with all applicable requirements [40 CFR 63.753(b)(1)(v)].
 10. The permittee shall maintain, service, repair, or dispose of equipment containing any class I or class II substance used as refrigerant in such equipment pursuant to the applicable provisions of 40 CFR Part 82.
 11. All asbestos renovation and demolition activities conducted at this facility shall be performed in accordance with the applicable requirements specified in 40 CFR Part 61 and OAC Chapter 3745-20.
 12. This facility is subject to the applicable requirements specified in OAC Chapter 3745-25. In accordance with Ohio EPA Engineering Guide #64, the emission control action programs, as specified in OAC rule 3745-25-03, shall be developed and submitted within 60 days after receiving notification from the Ohio EPA.
 13. Non-applicability determinations

Ohio EPA has determined that the requirements specifically identified in the following list are not applicable as the facility existed on the date of issuance of this permit.

List of Negative Declarations - Ohio and Federal Nonapplicable Requirements

Emissions Unit / Requirement
B017, B045, B046 and B047: OAC rule 3745-17-10

B001, B010, B017, B018, B020, B024, B026, B027, B028, B029, B030, B031, B042, B043, B044, B045, B046, B047 and B048: OAC rule 3745-21-07, OAC rule 3745-21-09, and OAC rule 3745-18-06.

F003, F004, F005, F006, F007, F008, F009, F010, F013, F014, F015, F016, F017, F018, F019, F020, F021, P013, P014, P015, P016, P017, P018, P019, P020, and P075: OAC rule 3745-17-10, OAC rule 3745-17-07

(B), OAC rule 3745-17-08, OAC rule 3745-21-07, and 40 CFR Part 60, Subpart GG.

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

B003 - EA-092-K, three 2-MBH air preheaters (permit to install 14-2795);
 B036 - EA-092-01, 3.55-MBH natural gas-fired boiler (permit to install 14-3226);
 B037 - EA-092-02, 3.55-MBH natural gas-fired boiler (permit to install 14-3226);
 F001 - EA-003-B, limestone unloading;
 F002 - EA-089, roadways & parking lots;
 F012 - EA-234, component test cell 54;
 G004 - EA-047-A, gasoline/diesel dispensing facility (permit to install 14-1989);
 K001 - EA-009-A, Sermetel spray booth;
 K010 - EA-069, tool room support paint spray operation (permit to install 14-1114);
 K019 - EA-010-H, Krylon adhesive cement spray booths (3) (permit to install 14-1766);
 K022 - EA-010-P, release agent spray booth;
 K024 - EA-258, central fluorescent penetrant inspection (permit to install 14-2537);
 K026 - EA-272, table-top paint spray hood (permit to install 14-2871);
 K028 - EA-092-39, model shop small paint booth (permit to install 14-3099);
 L062 - EA-011-W, cold degreaser (permit to install 14-1209);
 L071 - EA-011-BB, M&I cold degreaser (permit to install 14-1364);
 L079 - EA-011-FF, casings maintenance cold cleaner;
 L080 - EA-011-GG, solvent spray booth (cell 19) (permit to install 14-2063);
 L081 - EA-011-HH, cold degreaser;
 L090 - EA-092-Y, cold cleaner, area II (permit to install 14-2795);
 L098 - EA-092-Q, solvent spray booth (permit to install 14-2795);
 L099 - EA-092-26, ultrasonic cleaner (permit to install 14-3099);
 N002 - EA-001-B, classified materials incinerator (permit to install 14-0693);
 P023 - EA-071, seven grinding benches (permit to install 14-1115);
 P024 - EA-067, wax-melting oven (permit to install 14-1116);
 P029 - EA-068, three laser drilling machines (permit to install 14-1117);
 P038 - EA-062, CODEP/SNECMA vapor phase aluminiding;
 P042 - EA-093, sanding & buffing machines (4);
 P043 - EA-090, parts preparation for aluminiding;
 P044 - EA-063, titanium cleaning line (permit to install 14-1095);
 P046 - EA-083, RTV assembly (permit to install 14-1166);
 P048 - EA-078, laser drilling lab (permit to install 14-1172);
 P050 - EA-091, grind blast & erosion test;
 P051 - EA-096, two grit blast cabinets;
 P056 - EA-099, thermal spray room nr. 1;
 P057 - EA-059, chemical vapor deposition (permit to install 14-1081);
 P064 - EA-116, belt grinder for polishing;
 P065 - EA-123 & EA-124, CNC grinding machines, nrs. 1 & 2 (permit to install 14-1229);
 P067 - EA-115, belt grinder for polishing (permit to install 14-1226);
 P072 - EA-122, probe room surface grinders (permit to install 14-1228);
 P081 - EA-134, ceramic slurry spray booth & robotic gun (permit to install 14-1312);
 P086 - EA-120, two walk-in grit blast booths;
 P088 - EA-028-A, chemical cleaning lines (300A/B, 400, 600);
 P095 - EA-135, MPED fluidized bed (permit to install 14-1322);
 P097 - EA-094, vacuum plasma coating (permit to install 14-1166);
 P100 - EA-139, automated plasma/thermal spray nr. 3 (permit to install 14-1368);
 P102 - EA-072-A, large chemical line (8 lg. tanks) (permit to install 14-1128);
 P103 - EA-028-L, process room salt bath (permit to install 14-1128);
 P104 - EA-072-B, medium chemical line (10-12 med. tanks) (permit to install 14-1129);
 P105 - EA-053-A, composite press & cure (permit to install 14-1414);
 P107 - EA-137, ceramic tape-casting (permit to install 14-1363);
 P108 - EA-146, metallography etching (permit to install 14-1477);
 P109 - EA-124-A, cutter grind (14 CNC machines);
 P110 - EA-126-A, cutter grind (N);
 P111 - EA-128-A, cutter grind (S, 40);
 P113 - EA-145, grit blast (permit to install 14-1453);
 P115 - EA-148, Rigidax wax-melting pot (permit to install 14-1503);
 P117 - EA-150, heat treat/advanced heat treat lab (misc. equipment) (permit to install 14-1505);
 P123 - EA-135-A, CVD fluidized bed/retort furnace (permit to install 14-1633);
 P124 - EA-010-E, robotic spray coatings application prototype (permit to install 14-2141);
 P125 - EA-028-O, sludge volume reducer (permit to install 14-1633);
 P132 - EA-062-A, VPA Furnace GE1;
 P137 - EA-153-D, grit blast cabinet (SPF/DB) (permit to install 14-1730);
 P139 - EA-159, MPED bearings & fuels (torque/tension) lab (permit to install 14-1730);
 P144 - EA-160, MPED R&D chemistry labs (permit to install 14-1817);
 P145 - EA-164, ceramic slurry formulation (permit to install 14-1817);
 P146 - EA-165, MPED shape-molding operation (permit to install 14-1817);
 P147 - EA-163, composite surface treatment operation (permit to install 14-1817);
 P148 - EA-166, five horizontal braze furnaces (SPF/DB) (permit to install 14-1880);
 P149 - EA-167, ceramic/composites sintering operation (permit to install 14-1880);
 P150 - EA-168, polymeric cure/ceramic composites lab (permit to install 14-1880);
 P155 - EA-171, titanium benching/inspection area (SPF/DB) (permit to install 14-1913);
 P157 - EA-174, plasma cleaner (permit to install 14-1981);
 P158 - EA-151, powder classifiers (4) & retort furnaces (8) (permit to install 14-2299);
 P159 - EA-152, large 2-roll mixing mill (permit to install 14-1981);
 P160 - EA-152-A, small 2-roll lab mixing mill (permit to install 14-1981);
 P162 - EA-176, abrasive waterjet machining center (permit to install 14-2016);
 P163 - EA-177, automated grit blast system (permit to install 14-2042);
 P166 - EA-181, four ceramic sintering operation furnaces (permit to install 14-2073);
 P172 - EA-178, automated plasma spray system (permit to install 14-2086);
 P179 - EA-021-J, 5-axis pneumatic shot-peening system (permit to install 14-2175);

P180 - EA-191, grit blast (permit to install 14-2175);
 P184 - EA-197, plasma flame spray (permit to install 14-2194);
 P186 - EA-153, grit blast (permit to install 14-2211);
 P187 - EA-153-A, grit blast (permit to install 14-2211);
 P192 - EA-231, M&I Newall grinder nr. 4 (permit to install 14-2236);
 P193 - EA-244, abrasive cutoff & sanding (permit to install 14-2256);
 P197 - EA-239, M&I chemical grinder D (permit to install 14-2256);
 P200 - EA-243, walk-in grit blast cabinet;
 P207 - EA-021-K, 4-axis pneumatic shot-peening system (permit to install 14-2310);
 P210 - EA-252, vapor blast (permit to install 14-2413);
 P215 - EA-259, groundwater pump & treat system (bldg. 800) (permit to install 14-2544);
 P218 - EA-261, groundwater pump & treat system (bldg. 301/306) (permit to install 14-2544);
 P221 - EA-062-B, vapor phase aluminizing furnace (GE2) (permit to install 14-2572);
 P223 - EA-267, groundwater pump & treat system (air force plant 36) (permit to install 14-2675);
 P224 - EA-072-D, small chemical line (~14 tanks) (permit to install 14-2826);
 P225 - EA-268, titanium saw room (SPF/DB) (permit to install 14-2690);
 P227 - EA-269-A, polymeric debulk operation (permit to install 14-2788);
 P228 - EA-092-M, small carpentry shop (bldg. 204) (permit to install 14-2795);
 P229 - EA-269-B, tool-cleaning spray booth (permit to install 14-2788);
 P236 - EA-257-A, ASC 5x10 autoclave (permit to install 14-2858);
 P238 - EA-092-04, two cure ovens (permit to install 14-3099);
 P240 - EA-092-32, vapor hone & grit blast booths (permit to install 14-3099);
 P245 - EA-092-17, JETS operation propane-fired ovens (permit to install 14-3226);
 P247 - EA-257-C, ASC autoclave (permit to install 14-3400);
 R009 - EA-010-O, composites spray booth;
 T012 - EA-017-08, 250,000-gallon fuel storage tank NFF-5 (permit to install 14-0734);
 T020 - EA-017-BB, 20,000-gallon fiberglass UGST CFF-1 (permit to install 14-1390);
 T021 - EA-017-CC, 20,000-gallon fiberglass UGST CFF-2 (permit to install 14-1390);
 T022 - EA-017-DD, 20,000-gallon fiberglass UGST CFF-3 (permit to install 14-1390);
 T023 - EA-017-EE, 20,000-gallon fiberglass UGST CFF-4 (permit to install 14-1390);
 T037 - EA-017-SS, 1,000,000-gallon fuel oil AGST (425) (permit to install 14-1470);
 T055 - EA-017-11, 15,000-gallon fuel UGST (421-1) (permit to install 14-2063);
 T056 - EA-017-12, 15,000-gallon fuel UGST (421-2) (permit to install 14-2063);
 T058 - EA-017-14, 2,500-gallon oil AGST (permit to install 14-2194);
 T059 - EA-017-15, 1,500-gallon oil AGST (permit to install 14-2194);
 Z035 - EA-298, air preheater (703 roof);
 Z036 - EA-299, Stahl-Farrier air preheater (703 roof);
 Z037 - EA-095-A, two emergency engines for storm water pumps;
 Z038 - EA-095-B, emergency engine for a compressor;
 Z039 - EA-095-C, emergency engine for security office;
 Z040 - EA-095-D, three emergency engines for storm water pumps;
 Z041 - EA-095-E, emergency generator for boiler interlocks;
 Z042 - EA-095-F, emergency generator for boiler control room;
 Z043 - EA-095-G, three emergency engines for storm water pumps;
 Z044 - EA-095-H, emergency engines for wastewater pumps;
 Z045 - EA-095-I, emergency generator for water plant lights;
 Z046 - EA-095-J, emergency generator for computers;
 Z056 - EA-062-D, VPA furnace (SUN1) (permit to install 14-2831, incorrectly listed as P132);
 Z059 - EA-293, DMO cold cleaner;
 Z079 - EA-433, cell 44 turbine frame air preheater;
 Z080 - EA-434, 9.5 MBH cell 44 inflow bleed air preheater;
 Z082 - EA-436, carpentry shop; and
 Z083 - EA-437, box shop.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and 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 SIP-approved versions of OAC Chapters 3745-17, 3745-18, and 3745-21.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

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b State Only Enforceable Section

- The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirements or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

P001 - EA-002, melt furnace for Kirksite;
 P045 - EA-117, ventilation hood for Schantz etch/spot weld;
 P226 - EA-245-A, ASC small high-pressure autoclave;
 P248 - EA-374, two MPED oxidation furnaces;
 T001 - EA-017-N, 150,000-gallon fuel storage tank NFF-2;
 T002 - EA-017-M, 150,000-gallon fuel storage tank NFF-1;
 T003 - EA-017-L, 250,000-gallon fuel storage tank SFF-4;
 T004 - EA-017-K, 567,000-gallon fuel storage tank SFF-3;
 T005 - EA-017-J, 567,000-gallon fuel storage tank SFF-2;
 T006 - EA-017-I, 567,000-gallon fuel storage tank SFF-1;
 T007 - EA-017-P, 150,000-gallon fuel storage tank NFF-4;
 T008 - EA-017-O, 150,000-gallon fuel storage tank NFF-3;

T102 - EA-300, 1,000-gallon methanol storage tank;
Z064 - EA-316, 6,000-gallon UGST for peak-shaving generators;
Z065 - EA-095-K, 30-kW emergency generator for computers (bldg. B2);
Z066 - EA-420, laser shock-peen;
Z067 - EA-421, aqueous washer;
Z068 - EA-422, aqueous washer;
Z069 - EA-423, aqueous cleaner;
Z070 - EA-424, high-speed component testing;
Z071 - EA-425, de minimis lubricant application;
Z072 - EA-426, water-drying oven;
Z073 - EA-427, autoclave composite curing;
Z074 - EA-428, de minimis R&D lab furnaces & equipment;
Z075 - EA-429, de minimis main coolant tanks;
Z076 - EA-430, de minimis packaging operation;
Z077 - EA-431, de minimis packaging operation; and
Z078 - EA-432, de minimis packaging operation.

[Go to Part III for Emissions Unit B001](#)

[Go to Part III for Emissions Unit B007](#)

[Go to Part III for Emissions Unit B008](#)

[Go to Part III for Emissions Unit B009](#)

[Go to Part III for Emissions Unit B010](#)

[Go to Part III for Emissions Unit B011](#)

[Go to Part III for Emissions Unit B012](#)

[Go to Part III for Emissions Unit B013](#)

[Go to Part III for Emissions Unit B014](#)

[Go to Part III for Emissions Unit B015](#)

[Go to Part III for Emissions Unit B016](#)

[Go to Part III for Emissions Unit B017](#)

[Go to Part III for Emissions Unit B018](#)

[Go to Part III for Emissions Unit B020](#)

[Go to Part III for Emissions Unit B024](#)

[Go to Part III for Emissions Unit B026](#)

[Go to Part III for Emissions Unit B027](#)

[Go to Part III for Emissions Unit B028](#)

[Go to Part III for Emissions Unit B029](#)

[Go to Part III for Emissions Unit B030](#)

[Go to Part III for Emissions Unit B031](#)

[Go to Part III for Emissions Unit B042](#)

[Go to Part III for Emissions Unit B043](#)

[Go to Part III for Emissions Unit B044](#)

[Go to Part III for Emissions Unit B045](#)

[Go to Part III for Emissions Unit B046](#)

[Go to Part III for Emissions Unit B047](#)

[Go to Part III for Emissions Unit B048](#)

[Go to Part III for Emissions Unit F003](#)

[Go to Part III for Emissions Unit F004](#)

[Go to Part III for Emissions Unit F005](#)

[Go to Part III for Emissions Unit F006](#)

[Go to Part III for Emissions Unit F007](#)

[Go to Part III for Emissions Unit F008](#)

[Go to Part III for Emissions Unit F009](#)

[Go to Part III for Emissions Unit F010](#)

[Go to Part III for Emissions Unit F013](#)

[Go to Part III for Emissions Unit F014](#)

[Go to Part III for Emissions Unit F015](#)

[Go to Part III for Emissions Unit F016](#)

[Go to Part III for Emissions Unit F017](#)

[Go to Part III for Emissions Unit F018](#)

[Go to Part III for Emissions Unit F019](#)

[Go to Part III for Emissions Unit F020](#)

[Go to Part III for Emissions Unit F021](#)

[Go to Part III for Emissions Unit K017](#)

[Go to Part III for Emissions Unit P013](#)

[Go to Part III for Emissions Unit P014](#)

[Go to Part III for Emissions Unit P015](#)

[Go to Part III for Emissions Unit P016](#)

[Go to Part III for Emissions Unit P017](#)

[Go to Part III for Emissions Unit P018](#)

- [Go to Part III for Emissions Unit P019](#)
- [Go to Part III for Emissions Unit P020](#)
- [Go to Part III for Emissions Unit P075](#)
- [Go to Part III for Emissions Unit P188](#)
- [Go to Part III for Emissions Unit P231](#)
- [Go to Part III for Emissions Unit P234](#)
- [Go to Part III for Emissions Unit P235](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B001 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
100 MMBtu/hr natural gas-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

- 2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B001 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B007 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule. 0.13 lb PE/MMBtu of actual heat input 1.52 lbs SO2/MMBtu of actual heat input The lbs SO2/MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.
	OAC rule 3745-17-10(C)(1)	
	OAC rule 3745-18-37(W)	
	OAC rule 3745-18-06(A)	

2. **Additional Terms and Conditions**

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

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

a. **Alternative 1:**

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).) 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.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. When burning number six fuel oil, the permittee shall perform weekly visible emissions checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the visible emissions check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

- f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. 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.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

2. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:

For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:

For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 while firing number six fuel oil.

3. Emission Limitation:
1.52 lbs SO₂/MMBtu of actual heat input

Applicable Compliance Method:

When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may be assumed due to the negligible percent sulfur, by weight, in the fuel.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B007 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B008 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)(1)	0.13 lb PE/MMBtu of actual heat input
	OAC rule 3745-18-37(W)	1.52 lbs SO ₂ /MMBtu of actual heat input
	OAC rule 3745-18-06(A)	The combined average operating rate for emissions units B008 and B009 shall not exceed 244 MMBtu/hr for any calendar day. The lbs SO ₂ /MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.

2. Additional Terms and Conditions

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

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

a. Alternative 1:

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).) 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.

b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).)

2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
3. When burning number six fuel oil, the permittee shall perform weekly visible emissions checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. whether the emissions are representative of normal operations;
 - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the visible emissions check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

- f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and
- g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.
4. The permittee shall monitor and record the actual heat input, in MMBtu per hour, for B008 and B009, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. 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.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:
For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:
For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 while firing number six fuel oil.
3. Emission Limitation:
1.52 lbs SO₂/MMBtu of actual heat input

Applicable Compliance Method:
When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may be assumed due to the negligible percent sulfur, by weight, in the fuel.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6, while firing number six fuel oil.
4. Compliance with the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009 shall be demonstrated by the record keeping in A.III.5.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B008 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B009 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
142 MMBtu/hr natural gas/number 6 oil-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(C)(1)	0.13 lb PE/MMBtu of actual heat input
	OAC rule 3745-18-37(W)	1.52 lbs SO ₂ /MMBtu of actual heat input
	OAC rule 3745-18-06(A)	The combined average operating rate for emissions units B008 and B009 shall not exceed 244 MMBtu/hr for any calendar day. The lbs SO ₂ /MMBtu emission limitation above shall not apply to this emissions unit when burning only natural gas having a heat content greater than 950 Btu per standard cubic foot and a sulfur content less than 0.6 pound per million standard cubic feet during any calendar day.

2. Additional Terms and Conditions

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. The quality of the oil received for burning in this emissions unit shall have a combination of heat content and sulfur content that is sufficient to comply with the allowable sulfur dioxide emission limitation of 1.52 pounds of sulfur dioxide/MMBtu of actual heat input.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

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

For each shipment of oil received for burning in this emissions unit, the permittee shall collect or require the oil supplier to collect a representative grab sample of oil and maintain records of the total quantity of oil received, the permittee's or oil supplier's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).) 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.
 - b. Alternative 2:

The permittee shall collect a representative grab sample of oil that is burned in this emissions unit for each day when the emissions unit is in operation. If additional fuel oil is added to the tank serving this emissions unit on a day when the emissions unit is in operation, the permittee shall collect a sufficient number of grab samples to develop a composite sample representative of the fuel oil burned in this emissions unit. A representative grab sample of oil does not need to be collected on days when this emissions unit is only operated for the purpose of "test-firing." The permittee shall maintain records of the total quantity of oil burned each day, except for the purpose of test-firing, the permittee's analyses for sulfur content and heat content, and the calculated sulfur dioxide emission rate (in lbs/MMBtu). (The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(G)(2).)
- 2. The permittee shall perform or require the supplier to perform the analyses for sulfur content and heat content in accordance with the following ASTM methods: ASTM method D4294 for sulfur content and ASTM method D240 for heat content. Alternative, equivalent methods may be used upon written approval by the appropriate Ohio EPA District Office or local air agency.
- 3. When burning number six fuel oil, the permittee shall perform weekly visible emissions checks, when the emissions unit is in operation and when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to minimize or eliminate the visible emissions.

If visible emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (d) above or continue the visible emissions check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible emissions were representative of normal operations, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate under normal conditions, or specify the corrective actions that were taken to eliminate abnormal visible emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from weekly to biweekly readings if the following conditions are met:

- f. for 1 full quarter this emissions unit's visual observations indicate the emissions are representative of normal operations; and
 - g. the permittee continues to comply with all the record keeping and monitoring requirements specified above.
- The permittee shall revert to weekly readings for this emissions unit if the emissions are not representative of normal operations. The permittee may again reduce the frequency of visual observations from weekly to biweekly after obtaining 1 full quarter of observations with visible emissions that are representative of normal operations for this emissions unit.
- 4. The permittee shall monitor and record the actual heat input, in MMBtu per hour, for B008 and B009, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the Director (the appropriate Ohio EPA District Office or local air agency) in writing of any record which shows a deviation of the allowable sulfur dioxide emission limitation based upon the calculated sulfur dioxide emission rates from section A.III above. 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.
2. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit when burning number six fuel oil and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
3. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.13 lb PE/MMBtu of actual heat input

Applicable compliance method when burning only natural gas:
For the use of natural gas, compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

Applicable compliance method when burning number six fuel oil:

For the use of number six fuel oil, compliance may be determined by multiplying the maximum fuel oil capacity of the emissions unit (gallons/hr) by the AP-42, Fifth Edition, Section 1.3, Table 1.3-1 (revised 9/98) emission factor of 10 lbs filterable PE/1000 gallons, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 while firing number six fuel oil.

- 3. Emission Limitation:
1.52 lbs SO2/MMBtu of actual heat input

Applicable Compliance Method:
When firing number six fuel oil, compliance with the allowable sulfur dioxide emission limitation may be demonstrated by documenting that the sulfur content of each shipment of oil received during a calendar month meets the limitation.

When firing natural gas, compliance with this emission limitation may be assumed due to the negligible percent sulfur, by weight, in the fuel.

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

- 4. Compliance with the combined average operating rate of 244 MMBtu/hr for emissions units B008 and B009 shall be demonstrated by the record keeping in A.III.5.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B009 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B010 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
100 MMBtu/hr natural gas-fired boiler	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be demonstrated by dividing the AP-42, Table 1.4-2 (7/98) emission factor for natural gas combustion (1.9 lbs of particulates/MMcu.ft) by the conversion factor (1000 MMBtu/MMcu.ft).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B010 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B011 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired LM1500 A turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D). Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. 15.67 TPY PE/PM10*
- (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012,

B013, B014, B015 and B016.

- b. This emissions unit is physically limited to operating no more than three turbines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.
- c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);
 - b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011-B013 (turbines); and
 - c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(AxB1) + (Cx B2)]/2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
 - 15.67 TPY PE/PM10 as a rolling, 12-month summation
 - 0.0104 lb PE/PM10/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. **Emission Limitations:**
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- c. **Emission Limitations:**
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- d. **Emission Limitations:**
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- e. **Emission Limitations:**
33.39 TPY SO2 as a rolling, 12-month summation
0.033 lb SO2/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by

2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B011 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B012 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired LM1500 B turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D). Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. 15.67 TPY PE/PM10*
- (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*
- *Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.
- b. This emissions unit is physically limited to operating no more than three turbines at any one time.

Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

- c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);
 - b. the rolling, 12-month emission rates for PE, NOx, SO₂, CO, and VOC in TPY from emissions units B011-B013 (turbines); and
 - c. the rolling, 12-month emission rates for PE, NOx, SO₂, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM₁₀, NO_x, CO, VOC, and SO₂ emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM₁₀, NO_x, CO, VOC, and SO₂ emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NO_x, SO₂, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(A \times B1) + (C \times B2)] / 2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
 - 15.67 TPY PE/PM₁₀ as a rolling, 12-month summation
 - 0.0104 lb PE/PM₁₀/MMBtu

Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of

10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- c. Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- d. Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- e. Emission Limitations:
33.39 TPY SO₂ as a rolling, 12-month summation
0.033 lb SO₂/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission

factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B012 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B013 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
natural gas-fired LM1500 C turbine	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0104 lb PE/PM10/MMBtu 0.656 lb NOx/MMBtu 0.146 lb CO/MMBtu 0.0042 lb VOC/MMBtu 0.033 lb SO2/MMBtu
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D). Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(4)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(F)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. 15.67 TPY PE/PM10*
- (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*

*Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.

- b. This emissions unit is physically limited to operating no more than three turbines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare turbines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.

- c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
- the quantity of natural gas fired, in million cubic feet in emissions units B011-B013 (turbines);
 - the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011-B013 (turbines); and
 - the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.
- The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(AxB1) + (Cx B2)]/2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
15.67 TPY PE/PM10 as a rolling, 12-month summation
0.0104 lb PE/PM10/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
0.656 lb NOx/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- c. Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
0.146 lb CO/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- d. Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.0042 lb VOC/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- e. Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.033 lb SO2/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60,

Appendix A.

- 2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B013 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B014 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
4.72 MMBtu/hr natural gas-fired Waukesha engine A	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D). Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. **Additional Terms and Conditions**

- a. 15.67 TPY PE/PM10*
 - (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*
- *Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.
- b. This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.
 - c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission

limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);
 - b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and
 - c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(AxB1) + (Cx B2)]/2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
 - 15.67 TPY PE/PM10 as a rolling, 12-month summation
 - 0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- c. Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- d. Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- e. Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average,

except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B014 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B015 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
4.72 MMBtu/hr natural gas-fired Waukesha engine B	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D).
	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. 15.67 TPY PE/PM10*
 - (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*
- *Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.
- b. This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.
 - c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);
 - b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and
 - c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(AxB1) + (Cx B2)]/2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
 - 15.67 TPY PE/PM10 as a rolling, 12-month summation
 - 0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:
93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- c. Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- d. Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- e. Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B015 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B016 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
4.72 MMBtu/hr natural gas-fired Waukesha engine C	OAC rule 3745-31-05(C) (PTI 14-05168)	See A.I.2.a and A.I.2.b below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05168)	0.0095 lb PE/PM10/MMBtu 2.27 lbs NOx/MMBtu 3.51 lbs CO/MMBtu 0.36 lb VOC/MMBtu 0.0006 lb SO2/MMBtu
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A) and 3745-31-05(D). Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(5)(a)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-18-06(G)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- a. 15.67 TPY PE/PM10*
 - (a) 93.05 TPY NOx*
119.71 TPY CO*
41.15 TPY VOC*
33.39 TPY SO2*
- *Based upon a rolling, 12-month summation. Combined emissions for emissions units B011, B012, B013, B014, B015 and B016.
- b. This emissions unit is physically limited to operating no more than three engines at any one time. Notwithstanding this limitation, the permittee is authorized to utilize spare engines as long as they are identical (i.e., same heat input rating) to the ones listed in the permit application and they comply with permit emission limitations.
 - c. This emissions unit is physically capable of burning only natural gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)
[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. The permittee, for emissions units B011 through B016, shall burn only natural gas and the maximum annual natural gas usage rate associated with those emissions units shall not exceed 260.9 million cubic feet, based upon a rolling, 12-month summation of the natural gas usage rates.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records of the following information:
 - a. the quantity of natural gas fired, in million cubic feet in emissions units B014-B016 (engines);
 - b. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B014-B016 (engines); and
 - c. the rolling, 12 -month emission rates for PE, NOx, SO2, CO, and VOC in TPY from emissions units B011, B012, B013, B014, B015 and B016, combined.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the rolling, 12-month PE/PM10, NOx, CO, VOC, and SO2 emission limitations and natural gas usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE/PM10, NOx, CO, VOC, and SO2 emissions from emissions units B011, B012, B013, B014, B015 and B016 combined for the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. The permittee shall use the following equation to calculate the rolling, 12-month emissions for PE/PM-10, NOx, SO2, CO, and VOC for emissions units B011, B012, B013, B014, B015 and B016, combined using the emission factors specified below:

$$E = [(AxB1) + (Cx2B2)]/2000 \text{ lbs/ton}$$

Where:

E = tons of pollutant for emissions units B011, B012, B013, B014, B015 and B016, combined, based on a rolling, 12-month summation of the monthly emissions

A = emission factor for LM 1500 turbine (as specified in PTI 14-05168, dated 12/06/2001)

B1 = actual natural gas usage for B011-B013 (turbines), in MM cu. ft/yr, based upon a rolling, 12-month summation

C = emission factor for Waukesha engine (as specified in PTI 14-05168, dated 12/06/2001)

B2 = actual natural gas usage for B014-B016 (engines), in MM cu. ft/yr, based upon a rolling, 12-month summation

The permittee may use alternate emission factors or heat content values with prior approval from the appropriate Ohio EPA District Office or local air agency. The permittee shall clearly indicate in the reports required in this permit if alternate emission factors or heat contents are used during any reporting period.

- a. Emission Limitations:
 - 15.67 TPY PE/PM10 as a rolling, 12-month summation
 - 0.0095 lb PE/PM10/MMBtu

Applicable Compliance Methods:

Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 10.39 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 9.5 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.

Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).

If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- b. Emission Limitations:

- 93.05 TPY NOx as a rolling, 12-month summation
2.27 lbs NOx/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 655.86 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 2270 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- c. Emission Limitations:
119.71 TPY CO as a rolling, 12-month summation
3.51 lbs CO/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 145.89 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 3510 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- d. Emission Limitations:
41.15 TPY VOC as a rolling, 12-month summation
0.36 lb VOC/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 4.16 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 358 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
- e. Emission Limitations:
33.39 TPY SO2 as a rolling, 12-month summation
0.0006 lb SO2/MMBtu
- Applicable Compliance Methods:
Compliance with the TPY emission limitation shall be demonstrated by multiplying the emission factor of 33.25 lbs/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation) of the LM 1500 turbines then adding that to the emissions from the Waukesha engines determined by multiplying 0.588 lb/MM cubic feet by the actual gas usage in cubic feet per year (based on a rolling, 12-month summation). The total pounds of emissions is converted to tons by dividing by 2000.
- Compliance with the lb/MMBtu emission limitation is determined by dividing the appropriate emission factor above by 1000 Btu/cubic foot (heat content of natural gas).
- If required, the permittee shall demonstrate compliance with lb/MMBtu emission limitation through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-

03(B)(1).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05168. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B016 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B017 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
125 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B017 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B018 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
28 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B018 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B020 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
37.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(A)(3) (PTI 14-2236)	0.02 lb PE/MMBtu of actual heat input* 0.14 lb NOx/MMBtu of actual heat input* 0.20 lb SO2/MMBtu of actual heat input* 0.04 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input*
		This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
		See A.II.1.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.a below.
	OAC rule 3745-23-06(B)	None, see A.I.2.b below.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2236.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2236.

- c. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The annual operating hours for this emissions unit shall not exceed 1100 hrs/yr.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the operating hours for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit annual reports that specify the annual operating hours for this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
 0.02 lb PE/MMBtu of actual heat input
 0.14 lb NOx/MMBtu of actual heat input
 0.20 lb SO₂/MMBtu of actual heat input
 0.04 lb CO/MMBtu of actual heat input
 0.006 lb OC/MMBtu of actual heat input
- Applicable Compliance Method:
 If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
2. Compliance with the annual operating hours limitation shall be based upon the record keeping in A.III.1.
3. Emission Limitation:
 Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- Applicable Compliance Method:
 If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2236. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B020 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B024 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
164 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. **Additional Terms and Conditions**

a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input
- Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B024 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B026 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO ₂ /MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NO _x /MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input*
		This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
		The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. **Additional Terms and Conditions**

- a. The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:
 - (a) 1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO₂, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NO_x, based on a rolling, 12-month summation.
- b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.
- d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, for this emissions unit; and

- b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO₂, CO, OC and NO_x emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO₂, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NO_x, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO₂: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NO_x: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.
3. Emission Limitations:
0.0006 lb SO₂/MMBtu of actual heat input
0.17 lb CO/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.14 lb NO_x/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
4. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B026 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B027 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO ₂ /MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NO _x /MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input*
	OAC rule 3745-17-07(A)	This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:
 - (a) 1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO₂, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NO_x, based on a rolling, 12-month summation.
 - b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
 - c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.
 - d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, for this emissions unit; and
 - b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO₂, CO, OC and NO_x emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. Emission Limitations:

The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

1.08 TPY PE, based on a rolling, 12-month summation;
 0.04 TPY SO₂, based on a rolling, 12-month summation;
 1.2 TPY CO, based on a rolling, 12-month summation;
 0.32 TPY OC, based on a rolling, 12-month summation; and
 7.6 TPY NO_x, based on a rolling, 12-month summation.

Applicable Compliance Method:
 Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
 PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
 SO₂: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
 OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
 NO_x: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
 CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.
3. Emission Limitations:

0.0006 lb SO₂/MMBtu of actual heat input
 0.17 lb CO/MMBtu of actual heat input
 0.006 lb OC/MMBtu of actual heat input
 0.14 lb NO_x/MMBtu of actual heat input
 0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
 If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
4. Emission Limitation:

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

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B027 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B028 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO ₂ /MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NO _x /MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input*
		This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
		The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:
 - (a) 1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO₂, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NO_x, based on a rolling, 12-month summation.
 - b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
 - c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.
 - d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and

visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, for this emissions unit; and
 - b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO₂, CO, OC and NO_x emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:

The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:

 - 1.08 TPY PE, based on a rolling, 12-month summation;
 - 0.04 TPY SO₂, based on a rolling, 12-month summation;
 - 1.2 TPY CO, based on a rolling, 12-month summation;
 - 0.32 TPY OC, based on a rolling, 12-month summation; and
 - 7.6 TPY NO_x, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO₂: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NO_x: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.
3. Emission Limitations:
 - 0.0006 lb SO₂/MMBtu of actual heat input
 - 0.17 lb CO/MMBtu of actual heat input
 - 0.006 lb OC/MMBtu of actual heat input
 - 0.14 lb NO_x/MMBtu of actual heat input
 - 0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
4. Emission Limitation:

Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average,

except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B028 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B029 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
87.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-2332)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-2332)	0.0006 lb SO ₂ /MMBtu of actual heat input* 0.17 lb CO/MMBtu of actual heat input* 0.006 lb OC/MMBtu of actual heat input* 0.14 lb NO _x /MMBtu of actual heat input* 0.020 lb PE/MMBtu of actual heat input*
		This lb(s)/MMBtu emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
		The requirements of this rule also include compliance with the requirements of OAC rule OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:
 - (a) 1.08 TPY PE, based on a rolling, 12-month summation;
0.04 TPY SO₂, based on a rolling, 12-month summation;
1.2 TPY CO, based on a rolling, 12-month summation;
0.32 TPY OC, based on a rolling, 12-month summation; and
7.6 TPY NO_x, based on a rolling, 12-month summation.
 - b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been

submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-2332.
- d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. The total natural gas usage for this emissions unit shall not exceed 1,300,000 lbs per year, based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, for this emissions unit; and
 - b. the total rolling, twelve-month summation of the natural gas usage, in lbs, for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month natural gas usage limitation for this emissions unit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
- 2. The permittee shall submit annual reports which specify the rolling, 12-month emissions of PE, SO₂, CO, OC and NO_x emissions from emissions units B026, B027, B028, and B029, combined, for each month during the previous calendar year. These reports shall be submitted by January 31 of each year and shall cover the previous year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. Emission Limitations:
The total combined emissions from B026, B027, B028, and B029 shall not exceed the following:
 - 1.08 TPY PE, based on a rolling, 12-month summation;
 - 0.04 TPY SO₂, based on a rolling, 12-month summation;
 - 1.2 TPY CO, based on a rolling, 12-month summation;
 - 0.32 TPY OC, based on a rolling, 12-month summation; and
 - 7.6 TPY NO_x, based on a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation of the natural gas usage, in lbs, for emissions units B026 - B029, combined (from section A.III.1) by the conversion factor of 24.06 cubic feet natural gas/lb, multiplying by the appropriate pollutant emission factors (lb/MMBtu) below*, multiplying by the conversion factor for natural gas of 1000 Btu/MMcu. ft, and dividing by 2000 lbs/ton.

*emission factors
PE: 1.9 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
SO₂: 0.6 lb/MMBtu (AP-42, Table 1.4-2, 7/98)
OC: 5.5 lbs/MMBtu (AP-42, Table 1.4-2, 7/98)
NO_x: 83 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
CO: 61 lbs/MMBtu (AP-42, Table 1.4-1, 10/96)
- 2. Compliance with the rolling, 12-month natural gas usage limitation for this emissions unit shall be based upon the record keeping in A.III.1.

3. Emission Limitations:
 - 0.0006 lb SO₂/MMBtu of actual heat input
 - 0.17 lb CO/MMBtu of actual heat input
 - 0.006 lb OC/MMBtu of actual heat input
 - 0.14 lb NO_x/MMBtu of actual heat input
 - 0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
4. Emission Limitation:

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

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2332. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B029 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B030 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
80 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. **Additional Terms and Conditions**

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B030 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B031 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
80 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. **Emission Limitation:**
 Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
 If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. **Emission Limitation:**
 0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
 Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B031 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B042 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
21.7 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(A)(3) (PTI 14-3714)	0.006 lb PE/MMBtu of actual heat input* and 0.59 TPY* 0.14 lb NOx/MMBtu of actual heat input* and 13.31 TPY* 0.0006 lb SO2/MMBtu of actual heat input* and 0.06 TPY* 0.035 lb CO/MMBtu of actual heat input* and 3.33 TPY* 0.0058 lb OC/MMBtu of actual heat input* and 0.55 TPY*

*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-21-08(B), and 3745-23-06(B).

OAC rule 3745-17-07(A) Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

OAC rule 3745-17-10(B)(1) The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-21-08(B) None, see A.I.2.a below.

OAC rule 3745-23-06(B) None, see A.I.2.b below.

2. Additional Terms and Conditions

- a. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3714.
- (a) On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- b. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3714.
- c. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
 - 0.006 lb PE/MMBtu of actual heat input and 0.59 TPY
 - 0.14 lb NOx/MMBtu of actual heat input and 13.31 TPY
 - 0.0006 lb SO₂/MMBtu of actual heat input and 0.06 TPY
 - 0.035 lb CO/MMBtu of actual heat input and 3.33 TPY
 - 0.0058 lb OC/MMBtu of actual heat input and 0.55 TPY

Applicable Compliance Methods:
If required, the permittee shall demonstrate compliance with the lb/MMBtu emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

The annual emission limitations were established by multiplying the lb/MMBtu emission limitations by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr), multiplying by 8760 hrs/yr and dividing by 2000 lbs/ton.
2. Emission Limitation:

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

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and

record keeping, reporting, and testing requirements contained in Permit to Install 14-3714. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B042 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B043 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
23.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-3451)	3.1 lbs NOx/hr* *The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation. The total combined emissions of NOx from emissions units B043 and B044 shall not exceed 1.86 TPY based on a rolling, 12-month summation. See A.I.2.a and A.II.1.
	OAC rule 3745-31-05(A)(3) (PTI 14-3451)	0.0006 lb SO2/MMBtu of actual heat input** 1.03 lbs CO/hr** 0.006 lb OC/MMBtu of actual heat input** **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations. The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-07(A)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
	OAC rule 3745-21-08(B)	None, see A.I.2.b below.
	OAC rule 3745-23-06(B)	None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:
 - (a) 0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO2, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.
 - b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
 - c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology

requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.

- d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. The total combined hours of operation for emissions units B043 and B044 shall not exceed 1,200 hours per year based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the total operating hours for this emissions unit on a monthly basis.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
3.1 lbs NOx/hr

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.

2. Emission Limitations:
The total combined emissions of NOx from emissions units B043 and B044 shall not exceed:
1.86 TPY based on a rolling, 12-month summation; and
0.62 TPY CO, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the emission limitation of 3.1 lbs NOx/hr and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined, the hourly NOx emission limitation of 3.1 lbs NOx/hr and the hourly CO emission limitation of 1.03 lbs CO/hr.

3. Emission Limitations:
The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO₂, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined and the lb/MMBtu emission limitations for SO₂, OC, and PE.

4. Compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined shall be based upon the record keeping in A.III.1.

5. Emission Limitations:

- 0.0006 lb SO2/MMBtu of actual heat input
- 1.03 lbs CO/hr
- 0.006 lb OC/MMBtu of actual heat input
- 0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- 6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3451. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B043 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B044 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
23.5 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-3451)	3.1 lbs NOx/hr* *The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
	OAC rule 3745-31-05(A)(3) (PTI 14-3451)	The total combined emissions of NOx from emissions units B043 and B044 shall not exceed 1.86 TPY based on a rolling, 12-month summation. See A.I.2.a and A.II.1. 0.0006 lb SO2/MMBtu of actual heat input** 1.03 lbs CO/hr** 0.006 lb OC/MMBtu of actual heat input** **These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.
	OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B). Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1) OAC rule 3745-21-08(B)	0.020 lb PE/MMBtu of actual heat input None, see A.I.2.b below.

OAC rule 3745-23-06(B)

None, see A.I.2.c below.

2. Additional Terms and Conditions

- a. The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:
- (a) 0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO₂, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.
- b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3451.
- d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. The total combined hours of operation for emissions units B043 and B044 shall not exceed 1,200 hours per year based on a rolling, 12-month summation.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the total operating hours for this emissions unit on a monthly basis.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
3.1 lbs NO_x/hr
- Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.
2. Emission Limitations:
The total combined emissions of NO_x from emissions units B043 and B044 shall not exceed:
1.86 TPY based on a rolling, 12-month summation; and
0.62 TPY CO, as a rolling, 12-month summation.
- Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the emission limitation of 3.1 lbs NO_x/hr and dividing by 2000 lbs/ton.
- Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains

compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined, the hourly NO_x emission limitation of 3.1 lbs NO_x/hr and the hourly CO emission limitation of 1.03 lbs CO/hr.

3. Emission Limitations:
The following combined emission limitations for emissions units B043 and B044 shall not be exceeded:

0.28 TPY PE, as a rolling, 12-month summation;
0.0084 TPY SO₂, as a rolling, 12-month summation;
0.62 TPY CO, as a rolling, 12-month summation; and
0.084 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for emissions units B043 and B044 combined (from section A.III.1) by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined and the lb/MMBtu emission limitations for SO₂, OC, and PE.
4. Compliance with the rolling, 12-month operating hours limitation for emissions units B043 and B044 combined shall be based upon the record keeping in A.III.1.
5. Emission Limitations:
0.0006 lb SO₂/MMBtu of actual heat input
1.03 lbs CO/hr
0.006 lb OC/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3451. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B044 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control</u>
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Measures

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B045 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input

2. **Additional Terms and Conditions**

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with

OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B045 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or

control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B046 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1.	117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
		OAC rule 3745-17-10(B)(1)	0.020 lb PE/MMBtu of actual heat input
2. Additional Terms and Conditions			
a.	This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is		

no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

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

2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:

Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B046 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
-----------------------------------------------	--------------------------------------	----------------------------------------------------------

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B047 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
-----------------------------------------------	--------------------------------------	----------------------------------------------------------

117 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-17-07(A)	Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule. 0.020 lb PE/MMBtu of actual heat input
	OAC rule 3745-17-10(B)(1)	

2. **Additional Terms and Conditions**

- a. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
- Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
2. Emission Limitation:
0.020 lb PE/MMBtu of actual heat input
- Applicable Compliance Method:
Compliance may be determined by multiplying the hourly gas burning capacity of the emissions unit (MM cu. ft/hr) by the AP-42, Fifth Edition, Section 1.4, Table 1.4-2 (revised 7/98) emission factor of 1.9 lbs filterable PE/MM cu. ft, and then dividing by the maximum hourly heat input capacity of the emissions unit (MMBtu/hr).
- If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B047 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
-----------------------------------------------	--------------------------------------	----------------------------------------------------------

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B048 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
185 MMBtu/hr natural gas, indirect-fired preheater	OAC rule 3745-31-05(C) (PTI 14-4157)	55.5 lbs NOx/hr*

*The lbs/hr NOx emission limitation is based on the emissions unit's potential to emit. Therefore, no

additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.

39.5 TPY NOx based on a rolling, 12-month summation

See A.I.2.a and A.II.1.

OAC rule 3745-31-05(A)(3)
(PTI 14-4157)

0.0006 lb SO2/MMBtu of actual heat input**
32.5 lbs CO/hr**
0.006 lb OC/MMBtu of actual heat input**

**These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(A), 3745-17-10(B)(1), 3745-21-08(B), and 3745-23-06(B).

OAC rule 3745-17-07(A)

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

OAC rule 3745-17-10(B)(1)

0.020 lb PE/MMBtu of actual heat input

OAC rule 3745-21-08(B)

None, see A.I.2.b below.

OAC rule 3745-23-06(B)

None, see A.I.2.c below.

2. Additional Terms and Conditions

a. The following emission limitations shall not be exceeded:

(a)

2.63 TPY PE/PM-10, as a rolling, 12-month summation;
0.08 TPY SO2, as a rolling, 12-month summation;
23.1 TPY CO, as a rolling, 12-month summation; and
0.22 TPY OC, as a rolling, 12-month summation.

b. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4157.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

c. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4157.

d. This emissions unit is physically capable of burning only natural gas and starter gas. Therefore, there is no need for any monitoring, record keeping, and reporting to ensure compliance with the mass and visible emission limitations. Prior to modifying this emissions unit in a manner that would allow the burning of another fuel, the permittee shall apply for and obtain a permit to install in accordance with OAC Chapter 3745-31.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The total hours of operation for this emissions unit shall not exceed 1,423 hours per year based on a rolling, 12-month summation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:

- a. the total operating hours for this emissions unit; and
- b. the rolling, 12-month operating hours for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify all exceedences of the rolling, 12-month operating hours limitation.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitation:
55.5 lbs NOx/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 4 and 7.
2. Emission Limitations:
39.5 TPY NOx based on a rolling, 12-month summation
23.1 TPY CO, as a rolling, 12-month summation

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for this emissions unit by the emission limitation of 55.5 lbs NOx/hr and the emission limitation of 32.5 lbs CO/hr, respectively and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation and the hourly NOx and CO emission limitations.
3. Emission Limitations:
The following emission limitations shall not be exceeded:

2.63 TPY PE/PM-10, as a rolling, 12-month summation;
0.08 TPY SO₂, as a rolling, 12-month summation; and
0.22 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the rolling, 12-month operating hours for this emissions unit by the lb/MMBtu emission limitations in section A.I.1, multiplying by the maximum hourly heat input capacity of the emissions unit, and dividing by 2000 lbs/ton.

Therefore, compliance with the TPY limitations shall be assumed provided the permittee maintains compliance with the rolling, 12-month operating hours limitation for this emissions unit and the lb/MMBtu emission limitations for SO₂, OC, and PE.
4. Compliance with the rolling, 12-month operating hours limitation shall be based upon the record keeping in A.III.1.
5. Emission Limitations:
0.0006 lb SO₂/MMBtu of actual heat input
0.006 lb OC/MMBtu of actual heat input
0.020 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4157. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: B048 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 6 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. Miscellaneous Requirements

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F003 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F004 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 44 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. **Additional Terms and Conditions**

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F004 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F005 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 43 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F005 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F006 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 37 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

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

Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F006 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F007 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 40 (stack	OAC rule 3745-17-11(B)	None, see A.I.2.a below.

emissions only)

OAC rule 3745-17-07(A)

None, see A.I.2.b below.

OAC rule 3745-18-06(E)

See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F007 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F008 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 7 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F008 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F009 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 46 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-04488)	See A.I.2.a below.
	OAC rule 3745-31-05(A)(3) (PTI 14-04488)	951 lbs NOx/hr* 9.0 lbs PE/hr* 83.2 lbs SO2/hr* 200.0 lbs CO/hr* 200 lbs OC/hr*
		*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

- a. The following emission limitations shall not be exceeded:
 - (a) 10.2 TPY PE, as a rolling, 12-month summation;
21.2 TPY SO2, as a rolling, 12-month summation;
58.4 TPY CO, as a rolling, 12-month summation;
43.3 TPY OC, as a rolling, 12-month summation; and
52.3 TPY NOx, as a rolling, 12-month summation.
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine

components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

- e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4488.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.

- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4488.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
- the color of the emissions;
 - the total duration of any visible emission incident; and
 - any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

- The permittee shall calculate the NO_x, CO, OC, SO₂ and PE emissions from each engine test at this emissions unit by employing either the "Fuel Flow or Time at 3-Band Throttle Settings" methods or the "Instantaneous Emissions Tracking" system developed by General Electric Aircraft Engines.
- The permittee shall collect and record the following information monthly when the "Fuel Flow or Time at 3-Band Throttle Settings" methods for calculating NO_x, CO, OC, SO₂ and PE emissions from an engine test are used:
 - the type(s) and amount(s) of fuel used during each test;
 - the total hours of engine testing;
 - the total NO_x, CO, OC, SO₂ and PE emitted during each test (by employing the predefined emission

curves for the type of engine being tested); and

- d. the total monthly NOx, CO, OC, SO2 and PE emissions, in tons (the summation of the emission totals contained in line (c) for all tests performed during the month).
4. The permittee shall collect and record the following information when the "Instantaneous Emissions Tracking" system for calculating NOx, CO, OC, SO2 and PE emissions from an engine test is used:
 - a. the type(s) and amount(s) of fuel used during each test;
 - b. the total hours of engine testing;
 - c. the total NOx, CO, OC, SO2 and PE emitted during each test (by employing the predefined emission curves for the type of engine being tested); and
 - d. the total monthly NOx, CO, OC, SO2 and PE emissions, in tons (the summation of the emission totals contained in line (c) for all tests performed during the month).
5. The permittee shall collect and record the following information on a monthly basis:
 - a. the total monthly emissions of NOx, CO, OC, SO2 and PE, in tons (the summation of the NOx, CO, OC, SO2 and PE emissions recorded pursuant to A.III.3 and A.III.4 for each month); and
 - b. the rolling, twelve-month summation of NOx, CO, OC, SO2 and PE emissions (the current month's NOx, CO, OC, SO2 and PE emissions added to the previous eleven monthly totals for NOx, CO, OC, SO2 and PE emissions).

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.
2. The permittee shall submit quarterly deviation (excursion) reports for any monthly record showing an exceedance of the rolling, twelve-month emission limitations for NOx, CO, OC, SO2 and PE listed in section A.I.2.a.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
3. The permittee shall submit annual reports that lists the monthly emission totals and the rolling, twelve-month summations for NOx, CO, OC, SO2 and PE. These reports shall be submitted by January 31 of each year and cover the previous calendar year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
10.2 TPY PE, as a rolling, 12-month summation;
21.2 TPY SO2, as a rolling, 12-month summation;
58.4 TPY CO, as a rolling, 12-month summation;
43.3 TPY OC, as a rolling, 12-month summation; and
52.3 TPY NOx, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be based upon the record keeping in A.III.5.
2. Emission Limitations:
951 lbs NOx/hr
9.0 lbs PE/hr
83.2 lbs SO2/hr
200.0 lbs CO/hr
200 lbs OC/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-04488. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install

are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F009 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F010 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 11 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F010 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F013 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A1 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F013 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Operations, Property, and/or Equipment	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F014 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A2 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-4156)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-4156)	433 lbs NOx/hr* 313 lbs SO2/hr* 71.1 lbs CO/hr* 15.5 lbs OC/hr* 37.9 lbs PE/hr* **

*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

**The lbs/hr particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is greater than the uncontrolled mass rate of emission (UMRE) for this emissions unit. See A.I.2.b and A.VI.2 below.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).

OAC rule 3745-17-11(B)	None, see A.I.2.b below.
OAC rule 3745-17-07(A)	None, see A.I.2.c below.
OAC rule 3745-18-06(E)	See A.I.2.d below.
OAC rule 3745-21-08(B)	None, see A.I.2.e below.
OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

- a. The total combined emissions from F014 and F015 shall not exceed the following, based on a rolling, 12-month summation:

(a)

3.88 TPY PE
7.57 TPY SO₂
44.27 TPY NO_x
11.27 TPY CO
2.06 TPY OC

These annual emission limitations were established in PTI 14-4156 based on total combined fuel usages for emissions units F014 and F015 of 6,000,000 lbs per year of natural gas and 1,700,000 lbs per year of liquid fuels. Should the company find it necessary to adjust the amount or type of fuel, they may do so as long as the annual emission limitations specified above are not exceeded.

- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- Test Cell A2 (F014), and Test Cell A3 (F015) shall not operate simultaneously.
- The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, and the liquid fuels usage, in lbs, based on rolling, 12-month summations of the natural gas and liquid fuels usages, for emissions units F014 and F015, combined; and
 - b. the total rolling, twelve-month summations for the natural gas and liquid fuels usages, in lbs, for emissions units F014 and F015, combined.
2. The permittee shall maintain monthly records of the individual operating hours for F014 and F015 (i.e., the specific operating hours of the month that each emissions unit operated during the month) for the purpose of demonstrating that the emissions units did not operate simultaneously as required in A.II.1 above.
3. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify the following:
 - a. the total combined monthly fuel usages, in lbs, for emissions units F014 and F015, combined; and
 - b. the total monthly rolling, twelve-month summations for the amounts of fuels used, in lbs, for emissions units F014 and F015 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time when F014 and F015 operated simultaneously. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
 - 3.88 TPY PE, as a rolling, 12-month summation;
 - 7.57 TPY SO₂, as a rolling, 12-month summation;
 - 44.27 TPY NO_x, as a rolling, 12-month summation;
 - 11.27 TPY CO, as a rolling, 12-month summation; and
 - 2.06 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amounts of fuel used, in lbs, for emissions units F014 and F015, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors, in lbs pollutant/1000 lbs fuel combusted, multiplying by actual hours of operation/yr, and dividing by 2000 lbs/ton.

- 2. Emission Limitations:
 433 lbs NOx/hr
 313 lbs SO2/hr
 71.1 lbs CO/hr
 15.5 lbs OC/hr
 37.9 lbs PE/hr

Applicable Compliance Method:
 If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4156. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.
- 2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F014 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F015 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A3 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-4156)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-4156)	433 lbs NOx/hr* 313 lbs SO2/hr* 71.1 lbs CO/hr* 15.5 lbs OC/hr* 37.9 lbs PE/hr* **
		*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.
		**The lbs/hr particulate emission limitation established pursuant to OAC rule 3745-31-05(A)(3) is greater than the uncontrolled mass rate of emission (UMRE) for this emissions unit. See A.I.2.b and A.VI.2 below.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

- 2. **Additional Terms and Conditions**

- a. The total combined emissions from F014 and F015 shall not exceed the following, based on a rolling, 12-month summation:
- (a)
- 3.88 TPY PE
 - 7.57 TPY SO₂
 - 44.27 TPY NO_x
 - 11.27 TPY CO
 - 2.06 TPY OC
- These annual emission limitations were established in PTI 14-4156 based on total combined fuel usages for emissions units F014 and F015 of 6,000,000 lbs per year of natural gas and 1,700,000 lbs per year of liquid fuels. Should the company find it necessary to adjust the amount or type of fuel, they may do so as long as the annual emission limitations specified above are not exceeded.
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.
- On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-4156.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

1. Test Cell A2 (F014), and Test Cell A3 (F015) shall not operate simultaneously.
2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total natural gas usage, in lbs, and the liquid fuels usage, in lbs, based on rolling, 12-month summations of the natural gas and liquid fuels usages, for emissions units F014 and F015, combined; and
 - b. the total rolling, twelve-month summations for the natural gas and liquid fuels usages, in lbs, for emissions units F014 and F015, combined.
2. The permittee shall maintain monthly records of the individual operating hours for F014 and F015 (i.e., the specific operating hours of the month that each emissions unit operated during the month) for the purpose of demonstrating that the emissions units did not operate simultaneously as required in A.II.1 above.

3. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*****

IV. Reporting Requirements

1. The permittee shall submit annual reports that identify the following:
 - a. the total combined monthly fuel usages, in lbs, for emissions units F014 and F015, combined; and
 - b. the total monthly rolling, twelve-month summations for the amounts of fuels used, in lbs, for emissions units F014 and F015 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.
2. The permittee shall submit deviation (excursion) reports that identify all periods of time when F014 and F015 operated simultaneously. Each report shall be submitted within 30 days after the deviation occurs.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*****

V. Testing Requirements

1. Emission Limitations:
 - 3.88 TPY PE, as a rolling, 12-month summation;
 - 7.57 TPY SO₂, as a rolling, 12-month summation;
 - 44.27 TPY NO_x, as a rolling, 12-month summation;
 - 11.27 TPY CO, as a rolling, 12-month summation; and
 - 2.06 TPY OC, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amounts of fuel used, in lbs, for emissions units F014 and F015, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors, in lbs pollutant/1000 lbs fuel combusted, multiplying by actual hours of operation/yr, and dividing by 2000 lbs/ton.
2. Emission Limitations:
 - 433 lbs NO_x/hr
 - 313 lbs SO₂/hr
 - 71.1 lbs CO/hr
 - 15.5 lbs OC/hr
 - 37.9 lbs PE/hr

Applicable Compliance Method:
If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-4156. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.
2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F015 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F016 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 306 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F016 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F017 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 307 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be

exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F017 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

Applicable Emissions Limitations/Control

Operations, Property, and/or Equipment Applicable Rules/Requirements Measures
2. Additional Terms and Conditions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F018 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 301 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.

- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F018 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F019 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A18 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-3965)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-3965)	5.0 lbs NOx/MMBtu* 0.44 lb SO2/MMBtu* 5.0 lbs CO/MMBtu* 0.1 lb OC/MMBtu* 0.71 lb PE/MMBtu*
		*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.c below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

- a. The total combined emissions from F019 and F020 shall not exceed the following, based on a rolling, 12-month summation:
 - (a)
 - 8.4 TPY PE
 - 2.44 TPY SO2
 - 23.7 TPY NOX
 - 16.23 TPY CO
 - 3.3 TPY OC
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The total combined fuel usage for emissions units F019 and F020 shall not exceed 768,000 lbs per month and 3,840,000 lbs per year, based on a rolling, 12-month summation.
2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total fuel usage, in lbs, for emissions units F019 and F020, combined; and
 - b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined.
2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitations specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports that identify the following:
 - a. the total combined monthly fuel usages, in lbs, for emissions units F019 and F020, combined; and
 - b. the total monthly rolling, twelve-month summations for the amount of fuel used, in lbs, for emissions units F019 and F020 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Emission Limitations:
 8.4 TPY PE, as a rolling, 12-month summation;
 2.44 TPY SO₂, as a rolling, 12-month summation;
 16.23 TPY CO, as a rolling, 12-month summation;
 3.3 TPY OC, as a rolling, 12-month summation; and
 23.7 TPY NO_x, as a rolling, 12-month summation.

 Applicable Compliance Method:
 Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.
2. Emission Limitations:
 5.0 lbs NO_x/MMBtu
 0.44 lb SO₂/MMBtu
 5.0 lbs CO/MMBtu
 0.1 lb OC/MMBtu
 0.71 lb PE/MMBtu

 Applicable Compliance Method:
 If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
3. Compliance with the fuel usage limitations for emissions units F019 and F020 combined shall be based upon the record keeping in A.III.1.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3965. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.
2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F019 Issuance type: Title V Proposed Permit

B. **State Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F020 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A19 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-3965) OAC rule 3745-31-05(A)(3) (PTI 14-3965)	See A.I.2.a and A.II.1 below. 5.0 lbs NOx/MMBtu* 0.44 lb SO2/MMBtu* 5.0 lbs CO/MMBtu* 0.1 lb OC/MMBtu* 0.71 lb PE/MMBtu*

*These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

	The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-21-08(B), and 3745-23-06(B).
OAC rule 3745-17-11(B)	None, see A.I.2.b below.
OAC rule 3745-17-07(A)	None, see A.I.2.c below.
OAC rule 3745-18-06(E)	See A.I.2.d below.
OAC rule 3745-21-08(B)	None, see A.I.2.e below.
OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

- a. The total combined emissions from F019 and F020 shall not exceed the following, based on a rolling, 12-month summation:
 - (a)
 - 8.4 TPY PE
 - 2.44 TPY SO2
 - 23.7 TPY NOX
 - 16.23 TPY CO
 - 3.3 TPY OC
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
- f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-3965.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. The total combined fuel usage for emissions units F019 and F020 shall not exceed 768,000 lbs per month and 3,840,000 lbs per year, based on a rolling, 12-month summation.
- 2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information on a monthly basis:

- a. the total fuel usage, in lbs, for emissions units F019 and F020, combined; and
 - b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined.
2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitations specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
2. The permittee shall submit annual reports that identify the following:
 - a. the total combined monthly fuel usages, in lbs, for emissions units F019 and F020, combined; and
 - b. the total monthly rolling, twelve-month summations for the amount of fuel used, in lbs, for emissions units F019 and F020 combined.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
 - 8.4 TPY PE, as a rolling, 12-month summation;
 - 2.44 TPY SO₂, as a rolling, 12-month summation;
 - 16.23 TPY CO, as a rolling, 12-month summation;
 - 3.3 TPY OC, as a rolling, 12-month summation; and
 - 23.7 TPY NO_x, as a rolling, 12-month summation.

Applicable Compliance Method:
Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions units F019 and F020, combined (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.
2. Emission Limitations:
 - 5.0 lbs NO_x/MMBtu

- 0.44 lb SO2/MMBtu
- 5.0 lbs CO/MMBtu
- 0.1 lb OC/MMBtu
- 0.71 lb PE/MMBtu

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

- 3. Compliance with the fuel usage limitations for emissions units F019 and F020 combined shall be based upon the record keeping in A.III.1.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3965. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.
- 2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F020 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F021 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A11 (stack emissions only)	OAC rule 3745-31-05(C) (PTI 14-05321)	See A.I.2.a and A.II.1 below.
	OAC rule 3745-31-05(A)(3) (PTI 14-05321)	0.013 lb PE/MMBtu of actual heat input* 1.24 lbs NOx/MMBtu of actual heat input* 0.043 lb SO2/MMBtu of actual heat input* 0.753 lb CO/MMBtu of actual heat input* 0.054 lb OC/MMBtu of actual heat input*
		*These emission limitations are based on the emissions unit's potential to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with this emission limitation.
		The requirements of this rule also include compliance with the requirements of OAC rule 3745-31-05(D), 3745-17-07(B), 3745-17-08, 3745-21-08(B), and 3745-23-06(B).
		None, see A.I.2.b below.
	OAC rule 3745-17-11(B)	None, see A.I.2.b below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.d below.
	OAC rule 3745-21-08(B)	None, see A.I.2.e below.
	OAC rule 3745-23-06(B)	None, see A.I.2.f below.

2. Additional Terms and Conditions

- a. The following emission limitations shall not be exceeded:

- (a) 0.042 TPY PE, as a rolling, 12-month summation;
0.133 TPY SO2, as a rolling, 12-month summation;

- 2.32 TPY CO, as a rolling, 12-month summation;
0.17 TPY OC, as a rolling, 12-month summation; and
3.82 TPY NOx, as a rolling, 12-month summation.
- b. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
 - c. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
 - d. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
 - e. The permittee has satisfied the "best available control techniques and operating practices" required pursuant to OAC rule 3745-21-08(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05321.

On November 5, 2002, OAC rule 3745-21-08 was revised to delete paragraph (B); therefore, paragraph (B) is no longer part of the State regulations. However, that rule revision has not yet been submitted to the U.S. EPA as a revision to Ohio's State Implementation Plan (SIP). Therefore, until the SIP revision occurs and the U.S. EPA approves the revisions to OAC rule 3745-21-08, the requirement to satisfy the "best available control techniques and operating practices" still exists as part of the federally-approved SIP for Ohio.
 - f. The permittee has satisfied the "latest available control techniques and operating practices" required pursuant to OAC rule 3745-23-06(B) by committing to comply with the best available technology requirements established pursuant to OAC rule 3745-31-05(A)(3) in Permit to Install 14-05321.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The amount of jet fuel burned in this emissions unit shall not exceed 50,000 gallons per year, based on a rolling, 12-month summation.
2. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. However, there are periods of time when other fuels are burned. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information on a monthly basis:
 - a. the total fuel usage, in lbs, for emissions unit F021; and
 - b. the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021.
2. When this emissions unit is in operation and burns fuels other than naphtha and kerosene-based distillate fuel or natural gas, the permittee shall perform daily checks, when the weather conditions allow, for any visible particulate emissions from the stack serving this emissions unit. The presence or absence of any visible particulate emissions shall be noted in an operations log. If visible particulate emissions are observed, the permittee shall also note the following in the operations log:
 - a. the color of the emissions;
 - b. the total duration of any visible emission incident; and
 - c. any corrective actions taken to minimize or eliminate the visible particulate emissions.

If visible particulate emissions are present, a visible emission incident has occurred. The observer does not have to document the exact start and end times for the visible emission incident under item (b) above or continue the daily check until the incident has ended. The observer may indicate that the visible emission incident was continuous during the observation period (or, if known, continuous during the operation of the

emissions unit). With respect to the documentation of corrective actions, the observer may indicate that no corrective actions were taken if the visible particulate emissions were believed to be less than the allowable emission limitation, or specify the minor corrective actions that were taken to ensure that the emissions unit continued to operate in compliance with the allowable emission limitation, or specify the corrective actions that were taken to minimize or eliminate the visible particulate emissions.

Notwithstanding the frequency of reporting requirements specified in section A.IV, the permittee may reduce the frequency of visual observations for this emissions unit from daily to weekly readings if the following conditions are met:

- d. for 1 full quarter this emissions unit's visual observations indicate no visible emissions; and
- e. the permittee continues to comply with all the record keeping and monitoring requirements specified above.

The permittee shall revert to daily readings for this emissions unit if visible emissions are observed. The permittee may again reduce the frequency of visual observations from daily to weekly after obtaining 1 full quarter of observations with no visible emissions for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that identify each monthly record showing an exceedance of the fuel usage limitation specified in A.II.1 of this permit.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.

2. The permittee shall submit annual reports that identify the following:

- a. the monthly fuel usage, in lbs, for emissions unit F021; and
- b. the total monthly rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021.

These reports shall be submitted by January 31 of each year and cover the previous year's operation.

3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible particulate emissions were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to minimize or eliminate the visible particulate emissions. These reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 and July 31 of each year and shall cover the previous 6-month period.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Emission Limitations:
 - 0.042 TPY PE, as a rolling, 12-month summation;
 - 0.133 TPY SO₂, as a rolling, 12-month summation;
 - 2.32 TPY CO, as a rolling, 12-month summation;
 - 0.17 TPY OC, as a rolling, 12-month summation; and
 - 3.82 TPY NO_x, as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the total rolling, twelve-month summation for the amount of fuel used, in lbs, for emissions unit F021 (from section A.III.1) by the confidential General Electric Aircraft Engine emission factors specified in the permit to install application for this emissions unit, in lbs pollutant/1000 lbs fuel combusted, multiplying by 8760 hrs/yr, and dividing by 2000 lbs/ton.

2. Emission Limitations:
 - 0.013 lb PE/MMBtu of actual heat input
 - 1.24 lbs NO_x/MMBtu of actual heat input
 - 0.043 lb SO₂/MMBtu of actual heat input
 - 0.753 lb CO/MMBtu of actual heat input
 - 0.054 lb OC/MMBtu of actual heat input

Applicable Compliance Method:

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

3. Compliance with the fuel usage limitation shall be based upon the record keeping in A.III.1.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-05321. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating

permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

2. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: F021 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2.	Additional Terms and Conditions		
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: K017 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
coatings application booth with exhaust filters for control of PE	OAC rule 3745-31-05(A)(3) (PTI 14-1653)	1.3 TPY VOC from coatings 0.13 TPY VOC from cleanup materials See A.I.2.a below. The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U), 3745-21-07(G)(2), 3745-17-07(A), and 3745-17-11(B)(1). See A.I.2.b and A.II.1 below.
	OAC rule 3745-21-09(U)(2)(e)(ii)	8 lbs/hour and 40 lbs/day of organic compounds (OC)
	OAC rule 3745-21-07(G)(2)	Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-07(A)	PE shall not exceed 0.551 lb/hr, based on Table I.
	OAC rule 3745-17-11(B)(1)	See A.I.2.c.
	40 CFR Part 63, Subpart GG	

2. Additional Terms and Conditions

- a.
 - i. Coating usage shall not exceed 388 gallons per year.
 - ii. The VOC content of any coating shall not exceed 6.7 lbs VOC/gallon of coating, as applied.
 - iii. Cleanup material usage shall not exceed 40 gallons/yr.
- b. Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2)(e)(ii) is not part of the federally-approved SIP (for the Cincinnati ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.
- c. This emissions unit currently employs only coatings meeting the definition of "exempt specialty coating" as defined in 40 CFR 63, Subpart GG. It is, therefore, exempt from all emission limitations and control requirements contained in 40 CFR 63, Subpart GG.

The permittee may employ coatings not meeting the definition of "exempt specialty coating" as provided in A.IV.5 below.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. The permittee shall employ not more than 3 gallons of coating in any one day in this emissions unit to miscellaneous metal parts and products.
2. The permittee shall operate and maintain the exhaust filters when this emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. The permittee shall collect and record the following information for each coating and cleanup material used in this emissions unit:
 - a. the name and identification number of each coating and cleanup material employed;
 - b. an identification of whether each coating employed meets the definition of an "exempt specialty coating" per 40 CFR 63, Subpart GG;
 - c. the OC content, in pounds/gallon, of each coating employed; and
 - d. the OC content, in pounds/gallon, of each cleanup material employed.
2. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the name and identification number of each coating and cleanup material employed;
 - b. for each coating, an identification of whether the coating was applied to metal parts or nonmetal parts;
 - c. the volume, in gallons, of each coating employed;
 - d. the total volume, in gallons, of all the coatings employed for the metal parts;
 - e. the volume, in gallons, of each cleanup material employed;
 - f. the total OC emission rate for all coatings and cleanup materials employed [summation of (A.III.1.c x A.III.2.c) + (A.III.1.d x A.III.2.e)], in pounds per day;
 - g. the total number of hours the emissions unit was in operation and coatings were applied; and
 - h. the OC emission rate for all coatings and cleanup materials [(A.III.2.f/A.III.2.g)], in pounds per hour (average).
3. The permittee shall maintain records of the annual coating usage for this emissions unit.
4. The permittee shall maintain records of the annual cleanup material usage for this emissions unit.
5. The permittee shall document any time period when the exhaust filters were not in service when this emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

*****THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.*****

IV. Reporting Requirements

1. The permittee shall notify the appropriate Ohio EPA District Office or local air agency in writing of any daily record showing that:
 - a. the emissions unit employs more than 3 gallons of coating in any one day to miscellaneous metal parts and products; and
 - b. the VOC content of any coating employed in this emissions unit exceeds 6.7 lbs VOC/gallon of coating.

The notification shall include a copy of such record and shall be sent to the appropriate Ohio EPA District Office or local air agency within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day; and
 - b. each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
3. The permittee shall submit annual reports that specify the annual coating usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
4. The permittee shall submit annual reports that specify the annual VOC emissions from cleanup materials from this emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
5. Prior to employing any coating not meeting the definition of an "exempt specialty coating" as defined in 40 CFR 63, Subpart GG, the permittee shall provide written notification to the appropriate Ohio EPA District Office or local air agency. Such notification shall include information sufficient to determine compliance with the VOC content limitations specified in 40 CFR 63, Subpart GG. This notification, at a minimum, shall include the company identification and VOC content of the new coating to be employed.
6. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the exhaust filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the lbs/hr and lbs/day organic compound emission limitations in A.I.1, the coating and cleanup material usage limitations in A.I.2.a, the VOC content limitation in A.I.2.a and the coating usage restriction in A.II.1 shall be based upon the record keeping in A.III.
2. USEPA Method 24 shall be used to determine the VOC contents of the coatings. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials. The permittee may rely on USEPA Method 24 data provided by material suppliers.
3. Emission Limitation:
1.3 TPY VOC from coatings

Applicable Compliance Method:
This emission limitation was established by multiplying the annual coating usage limitation (388 gallons per year) by the coating VOC content limitation (6.7 lbs VOC/gallon) and dividing by 2000 lbs/ton. Therefore, compliance with the annual limitation will be assumed provided compliance is maintained with the annual coating usage limitation and the coating VOC content limitation.
4. Emission Limitation:
0.13 TPY VOC from cleanup materials

Applicable Compliance Method:
Compliance with this emission limitation shall be demonstrated by multiplying the VOC content of each cleanup material by the number of gallons of each cleanup material employed in this emission unit during each day, summing the daily emissions for the calendar year and dividing by 2000 lbs/ton.
5. Emission Limitation:
0.551 lb PE/hr

Applicable Compliance Method:
To determine the actual worst case particulate emission rate (E), the following equation shall be used for the paint spraying operations:

$$E = \text{particulate matter emission rate (lbs/hr)}$$

$$E = \text{maximum coating solids usage rate in pounds per hour} \times (1-TE) \times (1-CE), \text{ where}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, expressed as a decimal fraction, and

CE = control efficiency of the control equipment, expressed as a decimal fraction.

If required, the permittee shall demonstrate compliance with this emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5.
6. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-1653. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: K017 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
-----------------------------------------------	--------------------------------------	----------------------------------------------------------

2. Additional Terms and Conditions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P013 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 3 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.
2. Additional Terms and Conditions		
a.	The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.	
b.	This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.	
c.	The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).	
d.	The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.	
	Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.	

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P013 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P014 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 38 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P014 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P015 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 35 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. **Additional Terms and Conditions**

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P015 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P016 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 34 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P016 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P017 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 2 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

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

Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).

- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P017 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P018 Issuance type: Title V Proposed Permit

A. **State and Federally Enforceable Section**

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 5 (stack	OAC rule 3745-17-11(B)	None, see A.I.2.a below.

emissions only)

OAC rule 3745-17-07(A)

None, see A.I.2.b below.

OAC rule 3745-18-06(E)

See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P018 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P019 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 4 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P019 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P020 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell 45 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. Additional Terms and Conditions

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring, record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P020 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P075 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
engine and component test cell A5 (stack emissions only)	OAC rule 3745-17-11(B)	None, see A.I.2.a below.
	OAC rule 3745-17-07(A)	None, see A.I.2.b below.
	OAC rule 3745-18-06(E)	See A.I.2.c below.

2. **Additional Terms and Conditions**

- a. The uncontrolled mass rate of particulate emissions from this emissions unit is less than 10 pounds per hour. Therefore, pursuant to OAC rule 3745-17-11(A)(2)(a)(ii), Figure II of OAC rule 3745-17-11 does not apply. In addition, Table I of OAC rule 3745-17-11 does not apply because the process weight, as defined in OAC rule 3745-17-01(B)(14), is equal to zero.
- b. This emissions unit is exempt from the visible particulate emission limitations specified in OAC rule 3745-17-07(A) pursuant to OAC rule 3745-17-07(A)(3)(h) because the emissions unit is not subject to the requirements of OAC rule 3745-17-11.
- c. The sulfur dioxide emissions from this emissions unit are due solely to the combustion of liquid jet fuels. Pursuant to OAC rule 3745-18-01(B)(13), the liquid jet fuels and the combustion air are not considered to be part of the emissions unit's total process weight which is used in establishing the allowable sulfur dioxide emission limitation. The only other materials introduced into the emissions unit are the jet engines or jet engine components that are to be tested. The total weight of the jet engines or jet engine components greater than 1000 pounds could be used to establish the sulfur dioxide allowable emission limitation. However, using the total weight of the jet engines or jet engine components to establish the sulfur dioxide allowable emission limitation would yield a relatively high allowable sulfur dioxide emission limitation compared to the sulfur dioxide emissions generated by the combustion of the jet fuels. Therefore, a sulfur dioxide emission limitation has not been established for this emissions unit. In addition, any jet engine components that are less than 1000 pounds would be exempt from the requirements of OAC rule 3745-18-06(E) pursuant to OAC rule 3745-18-06(C).
- d. The permittee normally burns commercially available naphtha and kerosene-based distillate fuel (e.g., Jet A, Jet A-1, Jet B, and the military equivalents for these fuels) and natural gas in this emissions unit. When naphtha and kerosene-based distillate fuels or natural gas are burned in this emissions unit, the emissions unit is considered to be inherently clean.

Because there are no applicable mass or visible emission limitations, there is no need for monitoring,

record keeping, and reporting requirements.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. The Ohio EPA and U.S. EPA recognize that it is not feasible to control combustion turbine engine test cells. At the present time this does not pose a problem in complying with OAC rule 3745-17-11 because the uncontrolled mass rate of emission (UMRE) is less than 10 lbs/hr. However, it would become a problem if the UMRE were to exceed 10 lbs/hr due to the testing of larger engines than those currently tested. To address this potential problem, the Ohio EPA recognizes that it is appropriate to exempt combustion turbine engine test cells from OAC Chapter 3745-17, and has agreed to proceed with such a rule revision. At that time, combustion turbine engine test cells also will be exempted from OAC Chapter 3745-18 through rulemaking.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P075 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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2. Additional Terms and Conditions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P188 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
spray coatings application system with exhaust filters for control of PE	OAC rule 3745-31-05(A)(3) (PTI 14-3732)	63.7 lbs VOC/day and 3.35 TPY of VOC from coatings and cleanup materials employed See A.I.2.a below. 0.016 lb PE/hr and 0.071 TPY of PE
	OAC rule 3745-21-09(U)(2)(e)(ii) OAC rule 3745-21-07(G)(2) OAC rule 3745-17-07(A)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(U), 3745-21-07(G)(2) and 3745-17-07(A). See A.I.2.b and A.II.1 below. 8 lbs/hour and 40 lbs/day of organic compounds (OC) Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.
	OAC rule 3745-17-11(B)(1)	The emission limitation specified by this rule is less stringent than the emission limitation established

40 CFR Part 63, Subpart GG

pursuant to OAC rule 3745-31-05(A)(3).
See A.I.2.c.**2. Additional Terms and Conditions**

- a. i. Coating usage shall not exceed 10 gallons per day and 1000 gallons per year.
- (a) ii. The VOC content of each coating employed shall not exceed 5.7 lbs VOC/gallon of coating, as applied.
- iii. The permittee shall not employ more than 1 gallon per day and 150 gallons per year of cleanup materials.
- b. Although the requirements of OAC rule 3745-21-09(U) allow for an exemption from applicable VOC content limitations, the daily usage exemption allowed in accordance with OAC rule 3745-21-09(U)(2) (e)(ii) is not part of the federally-approved SIP (for the Cincinnati ozone area). The rule has been revised to reflect an exemption level (3 gallons per day) that is acceptable to USEPA. Therefore, the 3 gallons per day usage restriction shall apply as the exemption level while OAC rule 3745-21-09(U) is being approved by USEPA, as well as after USEPA approval.
- c. This emissions unit currently employs only coatings meeting the definition of "exempt specialty coating" as defined in 40 CFR 63, Subpart GG. It is, therefore, exempt from all emission limitations and control requirements contained in 40 CFR 63, Subpart GG.

The permittee may employ coatings not meeting the definition of "exempt specialty coating" as provided in A.IV.5 below.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. The permittee shall employ not more than 3 gallons of coating in any one day in this emissions unit to miscellaneous metal parts and products.
- 2. The permittee shall operate and maintain the exhaust filters when this emissions unit is in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information for each coating and cleanup material used in this emissions unit:
 - a. the name and identification number of each coating and cleanup material employed;
 - b. an identification of whether each coating employed meets the definition of an "exempt specialty coating" per 40 CFR 63, Subpart GG;
 - c. the OC content, in pounds/gallon, of each coating employed; and
 - d. the OC content, in pounds/gallon, of each cleanup material employed.
- 2. The permittee shall collect and record the following information each day for this emissions unit:
 - a. the name and identification number of each coating and cleanup material employed;
 - b. for each coating, an identification of whether the coating was applied to metal parts or nonmetal parts;
 - c. the volume, in gallons, of each coating employed;
 - d. the total volume, in gallons, of all the coatings employed for the metal parts;
 - e. the volume, in gallons, of each cleanup material employed;
 - f. the total OC emission rate for all coatings and cleanup materials employed [summation of (A.III.1.c x A.III.2.c) + (A.III.1.d x A.III.2.e)], in pounds per day;
 - g. the total number of hours the emissions unit was in operation and coatings were applied; and
 - h. the OC emission rate for all coatings and cleanup materials [(A.III.2.f/A.III.2.g)], in pounds per hour (average).
- 3. The permittee shall maintain records of the annual coating usage for this emissions unit.
- 4. The permittee shall maintain records of the annual cleanup material usage for this emissions unit.
- 5. The permittee shall maintain records of the annual VOC (OC) emissions from coatings and cleanup materials calculated as the sum of the daily VOC (OC) emissions from coating and cleanup materials in A.III.2.f for the calendar year and dividing by 2000 lbs/ton.
- 6. The permittee shall document any time period when the exhaust filters were not in service when this emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. The permittee shall notify the appropriate Ohio EPA District Office or local air agency in writing of any daily record showing that:
 - a. the emissions unit employs more than 3 gallons of coating in any one day to miscellaneous metal parts and products; and
 - b. the VOC content of any coating employed in this emissions unit exceeds 5.7 lbs VOC/gallon of coating.

The notification shall include a copy of such record and shall be sent to the appropriate Ohio EPA District Office or local air agency within 45 days after the exceedance occurs.
2. The permittee shall submit quarterly deviation (excursion) reports that identify:
 - a. each day during which the average hourly organic compound emissions exceeded 8 pounds per hour, and the actual average hourly organic compound emissions for each such day;
 - b. each day during which the organic compound emissions exceeded 40 pounds per day, and the actual organic compound emissions for each such day;
 - c. each day during which the VOC (OC) emissions from coatings and cleanup materials exceeded the limitation specified in A.1.1;
 - d. all exceedances of the coating usage limitation of 10 gallons per day; and
 - e. all exceedances of the cleanup material usage limitation of 1 gallon per day.

The quarterly deviation reports shall be submitted in accordance with the reporting requirements specified in Part I-General Term and Condition A.1.c.ii.
3. The permittee shall submit annual reports that specify the annual coating usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
4. The permittee shall submit annual reports that specify the annual cleanup material usage for the emissions unit. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year.
5. Prior to employing any coating not meeting the definition of an "exempt specialty coating" as defined in 40 CFR 63, Subpart GG, the permittee shall provide written notification to the appropriate Ohio EPA District Office or local air agency. Such notification shall include information sufficient to determine compliance with the VOC content limitations specified in 40 CFR 63, Subpart GG. This notification, at a minimum, shall include the company identification and VOC content of the new coating to be employed.
6. The permittee shall notify the Director (the appropriate District Office or local air agency) in writing of any record showing that the exhaust filters were not in service when the emissions unit was in operation. The notification shall include a copy of such record and shall be sent to the Director (the appropriate District Office or local air agency) within 30 days after the event occurs.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the lbs/hr and lbs/day organic compound emission limitations in A.1.1, the coating and cleanup material usage limitations in A.1.2.a, the VOC content limitation in A.1.2.a and the coating usage restriction in A.1.1 shall be based upon the record keeping in A.III.
2. USEPA Method 24 shall be used to determine the VOC contents of the coatings. USEPA Method 24 or formulation data shall be used to determine the VOC contents of the cleanup materials. The permittee may rely on USEPA Method 24 data provided by material suppliers.
3. Emission Limitation:
63.7 lbs VOC/day from coatings and cleanup materials employed

Applicable Compliance Method:
Compliance shall be based on the record keeping in A.III.2.
4. Emission Limitation:
3.35 TPY of VOC from coatings and cleanup materials employed

Applicable Compliance Method:
Compliance shall be based on the record keeping in A.III.5.
5. Emission Limitation:
0.016 lb PE/hr

Applicable Compliance Method:
To determine the actual worst case particulate emission rate (E), the following equation shall be used for the paint spraying operations:

$$E = \text{particulate matter emission rate (lbs/hr)}$$

$$E = \text{maximum coating solids usage rate in pounds per hour} \times (1-TE) \times (1-CE), \text{ where}$$

TE = transfer efficiency, which is the ratio of the amount of coating solids deposited on the coated part to the amount of coating solids used, expressed as a decimal fraction, and

CE = control efficiency of the control equipment, expressed as a decimal fraction.

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

- 6. Emission Limitation:
0.071 TPY of PE

Applicable Compliance Method:
Compliance with the annual limitation shall be assumed as long as compliance with the hourly limitation is maintained (the annual limitation was calculated by multiplying the hourly limitation by 8760 hrs/yr and then dividing by 2000 lbs/ton).

- 7. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-3732. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P188 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P231 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO2; 7.59 TPY* CO; and 1.26 TPY* OC

See A.II.1 below.

*This TPY emission limitation was established based on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

OAC rule 3745-31-05(A)(3) (PTI 14-2834)	49.1 lbs NOx/hr**; 0.25 lb PE/MMBtu**; 8.0 lbs SO2/hr**; 9.6 lbs CO/hr**; and 1.6 lbs OC/hr**.
--------------------------------------------	------------------------------------------------------------------------------------------------------------

**These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with

these emission limitations.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).

OAC rule 3745-17-07(A)

Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

OAC rule 3745-17-11(B)(5)(b)

0.062 lb PE/MMBtu of actual heat input

The emission limitation specified by this rule is more stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.a below.

OAC rule 3745-18-06(G)

0.5 lb SO₂/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.
- 2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06(G). Because compliance with this operational restriction will maintain the actual SO₂ emission rate well below the emission limitation contained in OAC rule 3745-18-06(G), there is no need for additional fuel sampling and analysis requirements for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information on a daily basis:
 - a. the individual hours of operation for emissions units P231, P234, and P235;
 - b. the total combined hours of operation for emissions units P231, P234, and P235; and
 - c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).
- 2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.
- 3. For each day during which the permittee burns a fuel other than low sulfur, number 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.
- 2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

- 1. Compliance with the short term emission limitations specified in A.I.1 may be based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The

emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.

2. **Emission Limitation:**
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. **Emission Limitation:**
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).
4. **Emission Limitation:**
0.5 lb SO₂/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P231 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

- | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|-----------------------------------------------|--------------------------------------|----------------------------------------------------------|
| 2. Additional Terms and Conditions | | |
| 1. None | | |

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

- 1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P234 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO2; 7.59 TPY* CO; and 1.26 TPY* OC

See A.II.1 below.

*This TPY emission limitation was established based on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

OAC rule 3745-31-05(A)(3)
(PTI 14-2834)

49.1 lbs NOx/hr**;
0.25 lb PE/MMBtu**;

8.0 lbs SO₂/hr**;
 9.6 lbs CO/hr**; and
 1.6 lbs OC/hr**.

**These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).

OAC rule 3745-17-07(A)

Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

OAC rule 3745-17-11(B)(5)(b)

0.062 lb PE/MMBtu of actual heat input

The emission limitation specified by this rule is more stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.a below.

OAC rule 3745-18-06(G)

0.5 lb SO₂/MMBtu of actual heat input

2. Additional Terms and Conditions

- a. The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

- 1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.
- 2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06[G]. Because compliance with this operational restriction will maintain the actual SO₂ emission rate well below the emission limitation contained in OAC rule 3745-18-06[G], there is no need for additional fuel sampling and analysis requirements for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall collect and record the following information on a daily basis:
 - a. the individual hours of operation for emissions units P231, P234, and P235;
 - b. the total combined hours of operation for emissions units P231, P234, and P235; and
 - c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).
- 2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.
- 3. For each day during which the permittee burns a fuel other than low sulfur, number 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

- 1. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.
- 2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. Compliance with the short term emission limitations specified in A.1.1 may be based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
2. **Emission Limitation:**
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. **Emission Limitation:**
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).
4. **Emission Limitation:**
0.5 lb SO₂/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P234 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

- | | <u>Operations, Property, and/or Equipment</u> | <u>Applicable Rules/Requirements</u> | <u>Applicable Emissions Limitations/Control Measures</u> |
|----|-----------------------------------------------|--------------------------------------|----------------------------------------------------------|
| 2. | Additional Terms and Conditions | | |
| 1. | None | | |

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. **Miscellaneous Requirements**

1. None

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P235 Issuance type: Title V Proposed Permit

A. State and Federally Enforceable Section

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.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
1600 KW number 2 fuel oil-fired generator (large bore)	OAC rule 3745-31-05(C) (PTI 14-2834)	38.9 TPY* NOx; 0.78 TPY* PE; 6.33 TPY* SO ₂ ; 7.59 TPY* CO; and 1.26 TPY* OC

See A.II.1 below.

*This TPY emission limitation was established based

OAC rule 3745-31-05(A)(3)
(PTI 14-2834)

on 8760 hrs/yr of operation for one diesel generator (P231, P234, or P235). Therefore, compliance with the TPY limitation shall be assumed provided compliance is maintained with the rolling, 365-day operating hours limitation for P231, P234, and P235 combined in A.II.1 below.

49.1 lbs NOx/hr**;
0.25 lb PE/MMBtu**;
8.0 lbs SO₂/hr**;
9.6 lbs CO/hr**; and
1.6 lbs OC/hr**.

**These emission limitations are based on the emissions unit's potentials to emit. Therefore, no additional monitoring, record keeping, or reporting requirements are necessary to show compliance with these emission limitations.

OAC rule 3745-17-07(A)

The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(A), 3745-17-11(B)(5)(b) and 3745-18-06(G).

Visible particulate emissions (PE) from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

OAC rule 3745-17-11(B)(5)(b)

0.062 lb PE/MMBtu of actual heat input

The emission limitation specified by this rule is more stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3). See A.I.2.a below.

OAC rule 3745-18-06(G)

0.5 lb SO₂/MMBtu of actual heat input

2. **Additional Terms and Conditions**

- a. The emission limitation specified in this rule citation has been revised based upon a change in the applicable emission factor contained in USEPA reference document AP-42, Fifth Edition, Compilation of Air Pollution Emission Factors. The revised rule was adopted by the Director of Ohio EPA in December, 1997. The USEPA has agreed to consider this revised rule as federally enforceable during the time from the effective date of this permit to the effective date of USEPA approval of this limitation as a revision to the Ohio SIP for particulate matter.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. **Operational Restrictions**

- 1. The total combined hours of operation for P231, P234, and P235 shall not exceed 1584 hours per year, based on a rolling, 365-day summation.
- 2. The permittee shall burn only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur, in this emissions unit. This operational restriction was not part of the BAT definition for this emissions unit. It has been added to this permit to ensure ongoing compliance with the emission limitation contained in OAC rule 3745-18-06[G]. Because compliance with this operational restriction will maintain the actual SO₂ emission rate well below the emission limitation contained in OAC rule 3745-18-06[G], there is no need for additional fuel sampling and analysis requirements for this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall collect and record the following information on a daily basis:
 - a. the individual hours of operation for emissions units P231, P234, and P235;
 - b. the total combined hours of operation for emissions units P231, P234, and P235; and
 - c. the total combined rolling, 365-day summation of the operating hours for emissions units P231, P234, and P235 combined (the summation of line b for the current day and the previous 364 days of operation).
- 2. The permittee shall maintain a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification.
- 3. For each day during which the permittee burns a fuel other than low sulfur, number 2 fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. **Reporting Requirements**

1. The permittee shall submit annual reports to the Director (the appropriate Ohio EPA District Office or local air agency) that includes the total combined hours of operation for emissions units P231, P234, and P235. These reports shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.
2. The permittee shall submit a copy of the contract with the supplier, which calls for low sulfur, number 2 fuel oil meeting the 0.05% by weight specification to the Director (the appropriate Ohio EPA District Office or local air agency) on an annual basis. This information shall be submitted by January 31 of each year and shall cover the previous calendar year's operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. Compliance with the short term emission limitations specified in A.I.1 may be based on the emission factors found in Attachment II of Appendix B contained in PTI application 14-2834 dated October 28, 1992. The emission factors specified in this document were developed from source testing by the manufacturer.

If required, the permittee shall demonstrate compliance with these emission limitations through emission testing performed in accordance with the appropriate methods found in 40 CFR Part 60, Appendix A.
2. Emission Limitation:
Visible particulate emissions from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:
If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).
3. Emission Limitation:
0.062 lb PE/MMBtu of actual heat input

Applicable Compliance Method:
Compliance may be based on the emission factor of 0.062 lb PE/MMBtu of actual heat input from AP-42, Table 3.4-2 (10/96).

If required, compliance with the lb/MMBtu emission limitation shall be demonstrated through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1 through 5 and the procedures specified in OAC rule 3745-17-03(B)(10).
4. Emission Limitation:
0.5 lb SO₂/MMBtu of actual heat input

Applicable Compliance Method:
Compliance with the allowable sulfur dioxide emission limitation may be assumed provided the permittee burns only low sulfur, number 2 fuel oil, containing less than 0.05% by weight sulfur in this emissions unit.

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

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. Pursuant to OAC rule 3745-77-07(A)(3)(a)(ii), the monitoring and record keeping, reporting, and testing requirements contained in this Title V permit are as stringent as or more stringent than the monitoring and record keeping, reporting, and testing requirements contained in Permit to Install 14-2834. The monitoring and record keeping, reporting, and testing requirements contained in the above-referenced Permit to Install are subsumed into the monitoring and record keeping, reporting, and testing requirements of this operating permit, so that compliance with these requirements constitutes compliance with the underlying monitoring and record keeping, reporting, and testing requirements in the Permit to Install.

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION

Facility ID: 1431150060 Issuance type: Title V Proposed Permit

[Go to the top of this document](#)

Facility ID: 1431150060 Emissions Unit ID: P235 Issuance type: Title V Proposed Permit

B. State Enforceable Section

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.

I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2. Additional Terms and Conditions			
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

III. Monitoring and/or Record Keeping Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

IV. Reporting Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

V. Testing Requirements

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.

VI. Miscellaneous Requirements

1. None