



5/9/2014

Josh Manley
DP&L, J.M. Stuart Generating Station
P.O. Box 468
Aberdeen, OH 45101

RE: DRAFT AIR POLLUTION PERMIT-TO-INSTALL

Facility ID: 0701000007
Permit Number: P0116447
Permit Type: OAC Chapter 3745-31 Modification
County: Adams

Certified Mail

No	TOXIC REVIEW
No	PSD
No	SYNTHETIC MINOR TO AVOID MAJOR NSR
No	CEMS
No	MACT/GACT
No	NSPS
No	NESHAPS
No	NETTING
No	MAJOR NON-ATTAINMENT
No	MODELING SUBMITTED
No	MAJOR GHG
No	SYNTHETIC MINOR TO AVOID MAJOR GHG

Dear Permit Holder:

A draft of the Ohio Administrative Code (OAC) Chapter 3745-31 Air Pollution Permit-to-Install for the referenced facility has been issued for the emissions unit(s) listed in the Authorization section of the enclosed draft permit. This draft action is not an authorization to begin construction or modification of your emissions unit(s). The purpose of this draft is to solicit public comments on the permit. A public notice will appear in the Ohio Environmental Protection Agency (EPA) Weekly Review and the local newspaper, The Peoples Defender. A copy of the public notice and the draft permit are enclosed. This permit can be accessed electronically on the Division of Air Pollution Control (DAPC) Web page, www.epa.ohio.gov/dapc by clicking the "Search for Permits" link under the Permitting topic on the Programs tab. Comments will be accepted as a marked-up copy of the draft permit or in narrative format. Any comments must be sent to the following:

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

and Portsmouth City Health Dept., Air Pollution Unit
605 Washington Street
3rd Floor
Portsmouth, OH 45662

Comments and/or a request for a public hearing will be accepted within 30 days of the date the notice is published in the newspaper. You will be notified in writing if a public hearing is scheduled. A decision on issuing a final permit-to-install will be made after consideration of comments received and oral testimony if a public hearing is conducted. Any permit fee that will be due upon issuance of a final Permit-to-Install is indicated in the Authorization section. Please do not submit any payment now. If you have any questions, please contact Portsmouth City Health Dept., Air Pollution Unit at (740)353-5156.

Sincerely,

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

Cc: U.S. EPA Region 5 -Via E-Mail Notification
Portsmouth; Kentucky; West Virginia

PUBLIC NOTICE
Issuance of Draft Air Pollution Permit-To-Install
DP&L, J.M. Stuart Generating Station

Issue Date: 5/9/2014
Permit Number: P0116447
Permit Type: OAC Chapter 3745-31 Modification
Permit Description: Chapter 31 modification to include federally enforceable operating restrictions to qualify boilers B010-B012 as "limited use boilers" per 40 CFR Part 63, Subpart DDDDD with an annual capacity factor of no more than 10 percent
Facility ID: 0701000007
Facility Location: DP&L, J.M. Stuart Generating Station
745 U.S. Route 52,
Aberdeen, OH 45101
Facility Description: Fossil Fuel Electric Power Generation

The Director of the Ohio Environmental Protection Agency issued the draft permit above. The permit and complete instructions for requesting information or submitting comments may be obtained at: <http://epa.ohio.gov/dapc/permitonline.aspx> by entering the permit # or: Matt Freeman, Portsmouth City Health Dept., Air Pollution Unit, 605 Washington Street 3rd Floor, Portsmouth, OH 45662. Ph: (740)353-5156



Permit Strategy Write-Up

1. Check all that apply:

Synthetic Minor Determination

Netting Determination

2. **Source Description:** Three auxiliary fire tube boilers identified as B010, B011, & B012 rated at 70.157 mmBTU/hr each, fired with No. 2 fuel oil and/or biodiesel fuel. Chapter 31 modification to qualify these boilers as “limited use boilers” per the National Emissions Standards for Hazardous Air Pollutants for Major sources: Industrial, Commercial, and Institutional Boilers and Process heaters (40 CFR Part 63, Subpart DDDDD). A limited use boiler is defined as a boiler that burns any amount of solid, liquid or gaseous fuels and has federally enforceable annual heat input capacity of no more than 10%. The 10% heat input equates to a maximum of no more than 61,458 mmBtu/year for each of the above boilers individually. As a result of a federally enforceable annual heat input capacity limit, there will be an actual decrease in allowable emissions of all pollutants from the three boilers in this permit.
3. **Facility Emissions and Attainment Status:** DP & L, Stuart Station is located in Monroe Township in Adams County, which is classified as attainment for all criteria pollutants. This facility is an existing major stationary source with potential emissions greater than 100 tons per year for Nitrogen Oxides (NOx) and Carbon Monoxide (CO), and Volatile Organic Compounds (VOC). The facility is also classified as a major source under the Title V program, due to NAAQS pollutant emissions over 100 tons/yr, and over 10 tons/yr single and 25 tons/yr combined HAPs.
4. **Source Emissions:** The projected actual emissions were calculated using a 10% capacity factor restriction along with most recent AP-42 emission factors from Section 1.3 (5/10). The rating of each boiler at 70.157 mmBtu/hr times 8760 hours results in 614,575.32 so multiplying by 0.10 equates to 61,458 mmBtu/year for each of the three boilers individually. The rolling 12-month limitations are 0.45 tpy PM/PM10/PM2.5, 4.91 tpyNOx, 1.12 tpy CO, 11.10 tpy SO2, and 0.04 tpy VOC for each boiler individually. The summary of all three boilers is listed in 7.
5. **Conclusion:** There is actually a decrease in all criteria pollutants due to the permittee wanting these units to become “limited use” boilers. This Chapter 31 modification does not result in any increase in emissions. The original PTI 07-00595 request was for 4 boilers each rated at 70.157 mmBtu/hr each to replace source B005 auxiliary boiler rated at 285 mmBtu/hr. However, only three of the four boilers were actually installed.
6. Please provide additional notes or comments as necessary:
- None
7. Total Permit Allowable Emissions Summary (for informational purposes only):

<u>Pollutant</u>	<u>Tons Per Year</u>
PM/PM10/PM2.5	1.35
CO	3.36
NOx	14.73
SO2	33.30
VOC	0.12



DRAFT

Division of Air Pollution Control
Permit-to-Install
for
DP&L, J.M. Stuart Generating Station

Facility ID:	0701000007
Permit Number:	P0116447
Permit Type:	OAC Chapter 3745-31 Modification
Issued:	5/9/2014
Effective:	To be entered upon final issuance



Division of Air Pollution Control
Permit-to-Install
for
DP&L, J.M. Stuart Generating Station

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Draft Permit-to-Install
DP&L, J.M. Stuart Generating Station
Permit Number: P0116447
Facility ID: 0701000007
Effective Date: To be entered upon final issuance

Authorization

Facility ID: 0701000007
Facility Description: Electric Generating Station
Application Number(s): A0050042
Permit Number: P0116447
Permit Description: Chapter 31 modification to include federally enforceable operating restrictions to qualify boilers B010-B012 as "limited use boilers" per 40 CFR Part 63, Subpart DDDDD with an annual capacity factor of no more than 10 percent
Permit Type: OAC Chapter 3745-31 Modification
Permit Fee: \$1,200.00 *DO NOT send payment at this time, subject to change before final issuance*
Issue Date: 5/9/2014
Effective Date: To be entered upon final issuance

This document constitutes issuance to:

DP&L, J.M. Stuart Generating Station
745 U.S. Route 52
Aberdeen, OH 45101

of a Permit-to-Install for the emissions unit(s) identified on the following page.

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

Portsmouth City Health Dept., Air Pollution Unit
605 Washington Street
3rd Floor
Portsmouth, OH 45662
(740)353-5156

The above named entity is hereby granted a Permit-to-Install for the emissions unit(s) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the emissions unit(s) of environmental pollutants will operate in compliance with applicable State and Federal laws and regulations, and does not constitute expressed or implied assurance that if constructed or modified in accordance with those plans and specifications, the above described emissions unit(s) of pollutants will be granted the necessary permits to operate (air) or NPDES permits as applicable.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

Craig W. Butler
Director



Effective Date: To be entered upon final issuance

Authorization (continued)

Permit Number: P0116447
 Permit Description: Chapter 31 modification to include federally enforceable operating restrictions to qualify boilers B010-B012 as "limited use boilers" per 40 CFR Part 63, Subpart DDDDD with an annual capacity factor of no more than 10 percent

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

Group Name: Fire tube boilers

Emissions Unit ID:	B010
Company Equipment ID:	Auxiliary Boiler
Superseded Permit Number:	07-00595
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B011
Company Equipment ID:	Auxiliary Boiler
Superseded Permit Number:	07-00595
General Permit Category andType:	Not Applicable
Emissions Unit ID:	B012
Company Equipment ID:	Auxiliary Boiler
Superseded Permit Number:	07-00595
General Permit Category andType:	Not Applicable



Draft Permit-to-Install
DP&L, J.M. Stuart Generating Station
Permit Number: P0116447
Facility ID: 0701000007
Effective Date: To be entered upon final issuance

A. Standard Terms and Conditions



1. Federally Enforceable Standard Terms and Conditions

- a) All Standard Terms and Conditions are federally enforceable, with the exception of those listed below which are enforceable under State law only:
 - (1) Standard Term and Condition A.2.a), Severability Clause
 - (2) Standard Term and Condition A.3.c) through A. 3.e) General Requirements
 - (3) Standard Term and Condition A.6.c) and A. 6.d), Compliance Requirements
 - (4) Standard Term and Condition A.9., Reporting Requirements
 - (5) Standard Term and Condition A.10., Applicability
 - (6) Standard Term and Condition A.11.b) through A.11.e), Construction of New Source(s) and Authorization to Install
 - (7) Standard Term and Condition A.14., Public Disclosure
 - (8) Standard Term and Condition A.15., Additional Reporting Requirements When There Are No Deviations of Federally Enforceable Emission Limitations, Operational Restrictions, or Control Device Operating Parameter Limitations
 - (9) Standard Term and Condition A.16., Fees
 - (10) Standard Term and Condition A.17., Permit Transfers

2. Severability Clause

- a) A determination that any term or condition of this permit is invalid shall not invalidate the force or effect of any other term or condition thereof, except to the extent that any other term or condition depends in whole or in part for its operation or implementation upon the term or condition declared invalid.
- b) All terms and conditions designated in parts B and C of this permit are federally enforceable as a practical matter, if they are required under the Act, or any of its applicable requirements, including relevant provisions designed to limit the potential to emit of a source, are enforceable by the Administrator of the U.S. EPA and the State and by citizens (to the extent allowed by section 304 of the Act) under the Act. Terms and conditions in parts B and C of this permit shall not be federally enforceable and shall be enforceable under State law only, only if specifically identified in this permit as such.

3. General Requirements

- a) Any noncompliance with the federally enforceable terms and conditions of this permit constitutes a violation of the Act, and is grounds for enforcement action or for permit revocation, revocation and re-issuance, or modification.



- b) It shall not be a defense for the permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the federally enforceable terms and conditions of this permit.
- c) This permit may be modified, revoked, or revoked and reissued, for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or revocation, or of a notification of planned changes or anticipated noncompliance does not stay any term and condition of this permit.
- d) This permit does not convey any property rights of any sort, or any exclusive privilege.
- e) The permittee shall furnish to the Director of the Ohio EPA, or an authorized representative of the Director, upon receipt of a written request and within a reasonable time, any information that may be requested to determine whether cause exists for modifying or revoking this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Director or an authorized representative of the Director, copies of records required to be kept by this permit. For information claimed to be confidential in the submittal to the Director, if the Administrator of the U.S. EPA requests such information, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

4. Monitoring and Related Record Keeping and Reporting Requirements

- a) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall maintain records that include the following, where applicable, for any required monitoring under this permit:
 - (1) The date, place (as defined in the permit), and time of sampling or measurements.
 - (2) The date(s) analyses were performed.
 - (3) The company or entity that performed the analyses.
 - (4) The analytical techniques or methods used.
 - (5) The results of such analyses.
 - (6) The operating conditions existing at the time of sampling or measurement.
- b) Each record of any monitoring data, testing data, and support information required pursuant to this permit shall be retained for a period of five years from the date the record was created. Support information shall include, but not be limited to all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. Such records may be maintained in computerized form.
- c) Except as may otherwise be provided in the terms and conditions for a specific emissions unit, the permittee shall submit required reports in the following manner:
 - (1) Reports of any required monitoring and/or recordkeeping of federally enforceable information shall be submitted to the Portsmouth City Health Dept., Air Pollution Unit.



- (2) Quarterly written reports of (i) any deviations from federally enforceable emission limitations, operational restrictions, and control device operating parameter limitations, excluding deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06, that have been detected by the testing, monitoring and recordkeeping requirements specified in this permit, (ii) the probable cause of such deviations, and (iii) any corrective actions or preventive measures taken, shall be made to the Portsmouth City Health Dept., Air Pollution Unit. The written reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. See A.15. below if no deviations occurred during the quarter.
 - (3) Written reports, which identify any deviations from the federally enforceable monitoring, recordkeeping, and reporting requirements contained in this permit shall be submitted to the Portsmouth City Health Dept., Air Pollution Unit every six months, by January 31 and July 31 of each year for the previous six calendar months. If no deviations occurred during a six-month period, the permittee shall submit a semi-annual report, which states that no deviations occurred during that period.
 - (4) This permit is for an emissions unit located at a Title V facility. Each written report shall be signed by a responsible official certifying that, based on information and belief formed after reasonable inquiry, the statements and information in the report are true, accurate, and complete.
- d) The permittee shall report actual emissions pursuant to OAC Chapter 3745-78 for the purpose of collecting Air Pollution Control Fees.

5. Scheduled Maintenance/Malfunction Reporting

Any scheduled maintenance of air pollution control equipment shall be performed in accordance with paragraph (A) of OAC rule 3745-15-06. The malfunction, i.e., upset, of any emissions units or any associated air pollution control system(s) shall be reported to the Portsmouth City Health Dept., Air Pollution Unit in accordance with paragraph (B) of OAC rule 3745-15-06. (The definition of an upset condition shall be the same as that used in OAC rule 3745-15-06(B)(1) for a malfunction.) The verbal and written reports shall be submitted pursuant to OAC rule 3745-15-06.

Except as provided in that rule, any scheduled maintenance or malfunction necessitating the shutdown or bypassing of any air pollution control system(s) shall be accompanied by the shutdown of the emission unit(s) that is (are) served by such control system(s).

6. Compliance Requirements

- a) All applications, notifications or reports required by terms and conditions in this permit to be submitted or "reported in writing" are to be submitted to Ohio EPA through the Ohio EPA's eBusiness Center: Air Services web service ("Air Services"). Ohio EPA will accept hard copy submittals on an as-needed basis if the permittee cannot submit the required documents through the Ohio EPA eBusiness Center. In the event of an alternative hard copy submission in lieu of the eBusiness Center, the post-marked date or the date the document is delivered in person will be recognized as the date submitted. Electronic submission of applications, notifications or reports required to be submitted to Ohio EPA fulfills the requirement to submit the required information to the Director, the appropriate Ohio EPA District Office or contracted



local air agency, and/or any other individual or organization specifically identified as an additional recipient identified in this permit unless otherwise specified. Consistent with OAC rule 3745-15-03, the electronic signature date shall constitute the date that the required application, notification or report is considered to be "submitted". Any document requiring signature may be represented by entry of the personal identification number (PIN) by responsible official as part of the electronic submission process or by the scanned attestation document signed by the Authorized Representative that is attached to the electronically submitted written report.

Any document (including reports) required to be submitted and required by a federally applicable requirement in this permit shall include a certification by a Responsible Official that, based on information and belief formed after reasonable inquiry, the statements in the document are true, accurate, and complete

- b) Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Director of the Ohio EPA or an authorized representative of the Director to:
 - (1) At reasonable times, enter upon the permittee's premises where a source is located or the emissions-related activity is conducted, or where records must be kept under the conditions of this permit.
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit, subject to the protection from disclosure to the public of confidential information consistent with ORC section 3704.08.
 - (3) Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit.
 - (4) As authorized by the Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit and applicable requirements.
- c) The permittee shall submit progress reports to the Portsmouth City Health Dept., Air Pollution Unit concerning any schedule of compliance for meeting an applicable requirement. Progress reports shall be submitted semiannually or more frequently if specified in the applicable requirement or by the Director of the Ohio EPA. Progress reports shall contain the following:
 - (1) Dates for achieving the activities, milestones, or compliance required in any schedule of compliance, and dates when such activities, milestones, or compliance were achieved.
 - (2) An explanation of why any dates in any schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

7. Best Available Technology

As specified in OAC Rule 3745-31-05, new sources that must employ Best Available Technology (BAT) shall comply with the Applicable Emission Limitations/Control Measures identified as BAT for each subject emissions unit.



8. Air Pollution Nuisance

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

9. Reporting Requirements

The permittee shall submit required reports in the following manner:

- a) Reports of any required monitoring and/or recordkeeping of state-only enforceable information shall be submitted to the Portsmouth City Health Dept., Air Pollution Unit.
- b) Except as otherwise may be provided in the terms and conditions for a specific emissions unit, quarterly written reports of (a) any deviations (excursions) from state-only required emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the Portsmouth City Health Dept., Air Pollution Unit. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters. (These quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06.)

10. Applicability

This Permit-to-Install is applicable only to the emissions unit(s) identified in the Permit-to-Install. Separate application must be made to the Director for the installation or modification of any other emissions unit(s) not exempt from the requirement to obtain a Permit-to-Install.

11. Construction of New Sources(s) and Authorization to Install

- a) This permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. This permit does not constitute expressed or implied assurance that the proposed facility has been constructed in accordance with the application and terms and conditions of this permit. The action of beginning and/or completing construction prior to obtaining the Director's approval constitutes a violation of OAC rule 3745-31-02. Furthermore, issuance of this permit does not constitute an assurance that the proposed source will operate in compliance with all Ohio laws and regulations. Issuance of this permit is not to be construed as a waiver of any rights that the Ohio Environmental Protection Agency (or other persons) may have against the applicant for starting construction prior to the effective date of the permit. Additional facilities shall be installed upon orders of the Ohio Environmental Protection Agency if the proposed facilities cannot meet the requirements of this permit or cannot meet applicable standards.
- b) If applicable, authorization to install any new emissions unit included in this permit shall terminate within eighteen months of the effective date of the permit if the owner or operator has not undertaken a continuing program of installation or has not entered into a binding contractual



obligation to undertake and complete within a reasonable time a continuing program of installation. This deadline may be extended by up to 12 months if application is made to the Director within a reasonable time before the termination date and the permittee shows good cause for any such extension.

- c) The permittee may notify Ohio EPA of any emissions unit that is permanently shut down (i.e., the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31) by submitting a certification from the authorized official that identifies the date on which the emissions unit was permanently shut down. Authorization to operate the affected emissions unit shall cease upon the date certified by the authorized official that the emissions unit was permanently shut down. At a minimum, notification of permanent shut down shall be made or confirmed by marking the affected emissions unit(s) as "permanently shut down" in "Air Services" along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update electronically will constitute notifying the Director of the permanent shutdown of the affected emissions unit(s).
- d) The provisions of this permit shall cease to be enforceable for each affected emissions unit after the date on which an emissions unit is permanently shut down (i.e., emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31). All records relating to any permanently shutdown emissions unit, generated while the emissions unit was in operation, must be maintained in accordance with law. All reports required by this permit must be submitted for any period an affected emissions unit operated prior to permanent shut down. At a minimum, the permit requirements must be evaluated as part of the reporting requirements identified in this permit covering the last period the emissions unit operated.

Unless otherwise exempted, no emissions unit certified by the responsible official as being permanently shut down may resume operation without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31 and OAC Chapter 3745-77 if the restarted operation is subject to one or more applicable requirements.

- e) The permittee shall comply with any residual requirements related to this permit, such as the requirement to submit a deviation report, air fee emission report, or other any reporting required by this permit for the period the operating provisions of this permit were enforceable, or as required by regulation or law. All reports shall be submitted in a form and manner prescribed by the Director. All records relating to this permit must be maintained in accordance with law.

12. Permit-To-Operate Application

The permittee is required to apply for a Title V permit pursuant to OAC Chapter 3745-77. The permittee shall submit a complete Title V permit application or a complete Title V permit modification application within twelve (12) months after commencing operation of the emissions units covered by this permit. However, if operation of the proposed new or modified source(s) as authorized by this permit would be prohibited by the terms and conditions of an existing Title V permit, a Title V permit modification of such new or modified source(s) pursuant to OAC rule 3745-77-04(D) and OAC rule 3745-77-08(C)(3)(d) must be obtained before operating the source in a manner that would violate the existing Title V permit requirements.



13. Construction Compliance Certification

The applicant shall identify the following dates in the "Air Services" facility profile for each new emissions unit identified in this permit.

- a) Completion of initial installation date shall be entered upon completion of construction and prior to start-up.
- b) Commence operation after installation or latest modification date shall be entered within 90 days after commencing operation of the applicable emissions unit.

14. Public Disclosure

The facility is hereby notified that this permit, and all agency records concerning the operation of this permitted source, are subject to public disclosure in accordance with OAC rule 3745-49-03.

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

If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters.

16. Fees

The permittee shall pay fees to the Director of the Ohio EPA in accordance with ORC section 3745.11 and OAC Chapter 3745-78. The permittee shall pay all applicable permit-to-install fees within 30 days after the issuance of any permit-to-install. The permittee shall pay all applicable permit-to-operate fees within thirty days of the issuance of the invoice.

17. Permit Transfers

Any transferee of this permit shall assume the responsibilities of the prior permit holder. The new owner must update and submit the ownership information via the "Owner/Contact Change" functionality in "Air Services" once the transfer is legally completed. The change must be submitted through "Air Services" within thirty days of the ownership transfer date.

18. Risk Management Plans

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Clean Air Act, as amended, 42 U.S.C. 7401 et seq. ("Act"), the permittee shall comply with the requirement to register such a plan.

19. Title IV Provisions

If the permittee is subject to the requirements of 40 CFR Part 72 concerning acid rain, the permittee shall ensure that any affected emissions unit complies with those requirements. Emissions exceeding



Draft Permit-to-Install
DP&L, J.M. Stuart Generating Station
Permit Number: P0116447
Facility ID: 0701000007

Effective Date: To be entered upon final issuance

any allowances that are lawfully held under Title IV of the Act, or any regulations adopted thereunder, are prohibited.

B. Facility-Wide Terms and Conditions



Draft Permit-to-Install
DP&L, J.M. Stuart Generating Station
Permit Number: P0116447
Facility ID: 0701000007

Effective Date: To be entered upon final issuance

1. All the following facility-wide terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only:
 - a) None.
2. The following emissions unit contained in this permit are subject to 40 CFR Part 60, Subpart Dc: B010, B011 and B012. The complete NSPS requirements may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.
3. The permittee shall comply with the applicable provisions of the National Emissions Standards for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters, as promulgated by the United States Environmental Protection Agency under 40 CFR Part 63, Subpart DDDDD. The final rules found in 40 CFR Part 63, Subpart DDDDD establish national emission standards for hazardous air pollutants (NESHAP), operational limits, work practice standards, and compliance requirements for industrial, commercial, and institutional boilers located at a major source of hazardous air pollutants (HAP).



Draft Permit-to-Install
DP&L, J.M. Stuart Generating Station
Permit Number: P0116447
Facility ID: 0701000007
Effective Date: To be entered upon final issuance

C. Emissions Unit Terms and Conditions



1. Emissions Unit Group -Fire tube boilers: B010,B011,B012

EU ID	Operations, Property and/or Equipment Description
B010	70.157 mmBtu/hr heat input fire tube auxillary steam boiler fired with No. 2 fuel oil and/or biodiesel fuel.
B011	70.157 mmBtu/hr heat input fire tube auxillary steam boiler fired with No. 2 fuel oil and/or biodiesel fuel.
B012	70.157 mmBtu/hr heat input fire tube auxillary steam boiler fired with No. 2 fuel oil and/or biodiesel fuel.

Chapter 31 modification to qualify these boilers as “limited use boilers” per the NESHAPS for Major sources: Industrial, Commercial, and Institutional Boilers and Process heaters (40 CFR Part 63, Subpart DDDDD). Includes federally enforceable operating restriction to qualify as “limited use boiler” with an annual capacity of no more than 10 percent which equates to a maximum annual heat input of no more than 61,458 mmBtu/year for each boiler. Supercedes PTI 07-00595 issued 11/20/2008.

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

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
a.	ORC 3704.03(T)	Sulfur dioxide (SO ₂) emissions shall not exceed 0.37 lb/mmBtu of actual heat input. See c)(5).
b.	OAC rule 3745-31-05(A)(3), as effective 11/30/01	The PM/PM ₁₀ /PM _{2.5} , NO _x , CO and VOC emissions requirements of this rule are equivalent to the rolling, 12-month PM/PM ₁₀ /PM _{2.5} , NO _x , CO and VOC emission limitations established pursuant to OAC rule 3745-31-05(D). The requirements of this rule also include compliance with the requirements of 40 CFR Part 60, Subpart Dc.
c.	OAC rule 3745-31-05(A)(3), as effective 12/01/06	See b)(2)b.



Effective Date: To be entered upon final issuance

	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
d.	OAC rule 3745-31-05(D) (Synthetic Minor restriction to qualify as a "limited use boiler" per 40 CFR Part 63, subpart DDDDD)	PM/PM ₁₀ /PM _{2.5} shall not exceed 0.45 ton per rolling, 12-month period. NO _x emissions shall not exceed 4.91 tons per rolling, 12-month period. CO emissions shall not exceed 1.12 tons per rolling, 12-month period. Volatile organic compound(VOC) emissions shall not exceed 0.04 ton per rolling, 12-month period SO ₂ emissions shall not exceed 11.10 tons per rolling, 12-month period. See c)(1) and c)(2).
e.	OAC rule 3745-17-10(B)(1)	Particulate emissions shall not exceed 0.020 lb/mmBtu actual heat input.
f.	OAC rule 3745-17-07(A)(1)	The visible particulate emission limitation required by this applicable rule is less stringent than the visible particulate emission limitation established pursuant to 40 CFR Part 60, Subpart Dc.
g.	OAC rule 3745-18-06	The SO ₂ emission limitation required by this applicable rule is less stringent than the SO ₂ emission limitation established pursuant to ORC 3704.03(T).
h.	40 CFR Part 60, Subpart Dc (40 CFR 60.40c – 60.48c) [In accordance with 40 CFR 60.40c(a), this emission unit is an existing steam generating unit for which construction, modification, or reconstruction is commenced after June 9, 1989 and that has a maximum design heat input capacity of 29 megawatts (MW) (100 million British thermal units per hour (MMBtu/hr)) or less, but greater than or equal to 2.9 MW (10 MMBtu/hr).]	Visible PE shall not exceed 20% opacity as a 6-minute average, except for one 6-minute period per hour of not more than 27% opacity.
i.	40 CFR 60.1 – 60.19	General Provisions.
j.	40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 – 63.7575)	Tune-up requirements specified in Table 3. [40 CFR 63.7540]



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
	[In accordance 40 CFR 63.7500(c) this emissions unit is a limited-use boiler subject to the tune-up requirements specified in this section.]	See b)(2)c.
k.	40 CFR 63.1 – 63.16 (40 CFR 63.7565)	Table 10 to Subpart DDDDD of 40 CFR Part 63 – Applicability of General Provisions to Subpart DDDDD shows which parts of the General Provisions in 40 CFR 63.1 – 63.16 apply.

(2) Additional Terms and Conditions

- a. The permittee has satisfied the Best Available Technology (BAT) requirements pursuant to OAC paragraph 3745-31-05(A)(3), as effective November 30, 2001, in this permit. On December 1, 2006, paragraph (A)(3) of OAC rule 3745-31-05 was revised to conform to ORC changes effective August 3, 2006 (S.B.265 changes), such that BAT is no longer required by State regulations for NAAQS pollutants less than ten tons per year. However, that rule revision has not yet been approved by 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 3745-31-05, the requirement to satisfy BAT still exists as part of the federally-approved SIP for Ohio. Once U.S. EPA approves the December 1, 2006 version of 3745-31-05, then the emission limits/control measures for VOC no longer apply.
- b. This rule paragraph applies once U.S. EPA approves the December 1, 2006 version of OAC rule 3745-31-05 as part of the State Implementation Plan.

Permit to Install and operate P0116447 for these air contaminant sources takes into account the following voluntary restrictions (including the use of any applicable air pollution control equipment) as proposed by the permittee for the purposes of avoiding BAT requirements under OAC rule 3745-31-05(A)(3) for PM/PM₁₀/PM_{2.5}, CO, NO_x and VOC.

- i. The maximum annual heat input for this emissions unit shall not exceed 61,458 MMBtu, based upon a rolling, 12-month summation of the monthly heat input values.
- ii. PM/PM₁₀/PM_{2.5} shall not exceed 0.45 ton per rolling, 12-month period.
- iii. CO emissions shall not exceed 1.12 tons per rolling, 12-month period.
- iv. NO_x emissions shall not exceed 4.91 tons per rolling, 12-month period.
- v. VOC emissions shall not exceed 0.04 ton per rolling, 12-month period.



- c. The permittee shall comply with the requirements and limits of 40 CFR Part 63, Subpart DDDDD for the facility's existing boilers and shall be in compliance with this NESHAP no later than January 31, 2016.
 - i. This emissions unit is identified as limited-use boiler and is not subject to the emission limits in Table 2 of the subpart, the operating limits in Table 4 of the subpart, or the energy assessment requirements in Table 3 of the subpart.
 - ii. The limited-use boiler is subject to 5-year tune-up requirements, conducted in accordance with 40 CFR 63.7540(a)(10)(i) through (vi) and Table 3 to the subpart: Each limited-use boiler identified above shall have a federally enforceable average annual capacity factor of no more than 10%.
- d. PTI 07-00595 established the following federally enforceable emission limitations for purposes of establishing the facility as a minor source for attainment New Source Review:
 - i. 17.6 tons NO_x per rolling, 12-month period from emissions units B010, B011, B012 and B013, combined; and
 - ii. 39.76 tons SO₂ per rolling, 12-month period from emissions units B010, B011, B012 and B013, combined.

These emission limitations were based on the fuel usage restrictions listed in the permit for the purpose of establishing federally enforceable emission limitations to avoid: Prevention of Significant Deterioration" (PSD) applicability.

The emission limitations in this permit are more stringent than PTI 07-00595 and include an annual heat input of 61,458 mmBtu/yr for each boiler, individually, resulting in the following federally enforceable emission limitations:

- i. 4.91 tons NO_x per rolling, 12-month period from emission units B010, B011 and B012, individually; and
- ii. 11.10 tons SO₂ per rolling, 12-month period from emission units B010, B011 and B012, individually.

c) Operational Restrictions

- (1) The maximum annual heat input for this emissions unit shall not exceed 61,458 MMBtu, based upon a rolling, 12-month summation of the monthly heat input values. The permittee has sufficient records to demonstrate compliance with the annual heat input limitation upon permit issuance in order to qualify as a "limited use boiler" per 40 CFR Part 63, Subpart DDDDD.
- (2) The permittee shall perform all maintenance activities as specified per the manufacturer's recommendations. To the extent practicable, the permittee shall



maintain and operate the boiler, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions.

- (3) See 40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 – 63.7575).
- (4) The permittee shall burn only No. 2 fuel oil or biodiesel fuel in this emissions unit.
- (5) The quality of No. 2 fuel oil burned in this emissions unit shall have a combination of sulfur content and heat content sufficient to comply with the allowable SO₂ emission limitation of 0.37 lb/mmBtu of actual heat input and a sulfur content limit of less than or equal to 0.35 percent sulfur, by weight.

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

- (1) The permittee shall maintain records of all maintenance activities performed in accordance with manufacturer's recommendations. Maintenance records for B010, B011 and B012 shall be made available to the Portsmouth Local Air Agency upon request.
- (2) The permittee shall maintain monthly records of the following information for these emissions units:
 - a. the monthly fuel usage of biodiesel and/or No. 2 fuel oil for B010, B011 and B012, in gallons;
 - b. the monthly heat input rate for B010, B011 and B012, in MMBtu (calculated by multiplying d)(2)a by the oil heating value of biodiesel and/or No. 2 fuel oil); and
 - c. the rolling, 12-month summation of the monthly heat input rates for B010, B011 and B012 (in MMBtu).
- (3) The permittee shall maintain records of the oil burned in these emissions units in accordance with either Alternative 1 or Alternative 2 described below.
 - a. **Alternative 1:**

For each shipment of oil received for burning in these emissions units, 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 lb/mmBtu). The sulfur dioxide emission rate shall be calculated in accordance with the formula specified in OAC rule 3745-18-04(F). A shipment may be comprised of multiple tank truck loads from the same supplier's batch, or may be represented by single or multiple pipeline deliveries from the same supplier's batch, and the quality of the oil for those loads or pipeline deliveries may be represented by a single batch analysis from the supplier.



b. Alternative 2:

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

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

- (4) See 40 CFR 60.48c(a) through 60.48c(j).
- (5) See 40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 – 63.7575).

e) Reporting Requirements

- (1) The permittee shall submit quarterly deviation (excursion) reports that identify the following:
 - a. all exceedances of the rolling, 12-month heat input limitation for emissions units B010, B011 and B012.

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

- (2) The permittee shall notify the Portsmouth Local Air Agency of any record that shows a deviation of the allowable SO₂ allowable emission limitation and/or sulfur content limitation based upon the calculated emission rates from d)(3) above. The notification shall include a copy of such record and shall be sent to the Portsmouth Local Air Agency within 45 days after the deviation occurs.
- (3) The permittee shall notify the Portsmouth Local Air Agency of any fuel burned in these emissions units other than biodiesel fuel or No. 2 fuel oil. The notification shall include a copy of such record and shall be sent to the Portsmouth Local Air Agency within 45 days after the deviation occurs.



- (4) See 40 CFR 60.48c(a) through 60.48c(j).
 - (5) See 40 CFR Part 63, Subpart DDDDD (40 CFR 63.7480 – 63.7575).
- f) Testing Requirements
- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:
 - a. Emission Limitation:

SO₂ emissions shall not exceed 0.37 lb/mmBtu of actual heat input.

Applicable Compliance Methods:

For the use of No. 2 fuel oil and biodiesel fuel, the short term emission limitation is based upon the emission unit's potential to emit and the manufacturer's guaranteed emissions data as provided in PTI application 07-00595 submitted on May 20, 2008 and in PTI application P0116447 submitted on March 11, 2014.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 4 and 6.
 - b. Emission Limitation:

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

Applicable Compliance Method:

If required, compliance shall be demonstrated in accordance with Test Method 9, as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 2002.
 - c. Emissions Limitations:

PM/PM₁₀/PM_{2.5} shall not exceed 0.45 ton per rolling, 12-month period.

NO_x emissions shall not exceed 4.91 tons per rolling, 12-month period.

CO emissions shall not exceed 1.12 tons per rolling, 12-month period.

VOC emissions shall not exceed 0.04 ton per rolling, 12-month period.

SO₂ emissions shall not exceed 11.10 tons per rolling, 12-month period.



Applicable Compliance Method:

Compliance shall be demonstrated by adding the current month's emissions to the preceding eleven calendar months. Monthly emissions shall be determined by multiplying the associated emission factors from AP-42 Section 1.3 (5/10) in lb/10³gallons by the biodiesel fuel and/or No. 2 fuel oil consumed then divided by 2000.

d. Emission Limitation:

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

Applicable Compliance Method:

For the use of No. 2 fuel oil and biodiesel fuel, the short term emission limitation is based upon the emission unit's potential to emit and the manufacturer's guaranteed emissions data as provided in PTI application 07-00595 submitted on May 20, 2008 and in PTI application P0116447 submitted on March 11, 2014.

If required, the permittee shall demonstrate compliance with the lb/mmBtu emission limitation through emission tests performed in accordance with the methods and procedures specified in 40 CFR Part 60, Appendix A, Methods 1 through 5.

- (2) Compliance with the sulfur content shall be demonstrated by the record keeping required pursuant to section d)(3) above.

g) Miscellaneous Requirements

- (1) None.