



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: January 15, 2025

Effective Date: July 15, 2026

Revision Date: June 15, 2026

Expiration Date: January 15, 2027

Revision Type: Extension

In accordance with the provisions of the Air Pollution Control Act, the Act of January 8, 1960, P.L. 2119, as amended, and 25 Pa. Code Chapter 127, the Owner, [and Operator if noted] (hereinafter referred to as permittee) identified below is authorized by the Department of Environmental Protection (Department) to construct, install, modify or reactivate the air emission source(s) more fully described in the site inventory list. This Facility is subject to all terms and conditions specified in this plan approval. Nothing in this plan approval relieves the permittee from its obligations to comply with all applicable Federal, State and Local laws and regulations.

The regulatory or statutory authority for each plan approval condition is set forth in brackets. All terms and conditions in this permit are federally enforceable unless otherwise designated as "State-Only" requirements.

Plan Approval No. 46-0001B

Federal Tax Id - Plant Code: 23-1284945-2

Owner Information

Name: JBS SOUDERTON INC

Mailing Address: PO BOX 64395
SOUDERTON, PA 18964-0395

Plant Information

Plant: JBS SOUDERTON INC/FRANCONIA TWP

Location: 46 Montgomery County 46927 Franconia Township

SIC Code: 2077 Manufacturing - Animal And Marine Fats And Oils

Responsible Official

Name: CHRISTOPHER BIVANS

Title: HEAD OF MOPAC

Phone: (215) 703 - 6189

Email: christopher.bivans@jbssa.com

Plan Approval Contact Person

Name: MARTINE THEOGENE

Title: E&S MANAGER

Phone: (215) 703 - 6280

Email: ClaudeMartine.Theogene@jbssa.com

[Signature] _____

JILLIAN A. GALLAGHER, SOUTHEAST REGION AIR PROGRAM MANAGER



Plan Approval Description

This plan approval is for the installation of a 49.05 MMBtu/hr boiler manufactured by Johnston Boiler Company. The boiler is equipped with low NOx burners and flue gas recirculation and is capable of firing natural gas or No. 2 fuel oil. No. 2 fuel oil will only be used during periods of natural gas curtailment and testing; therefore, the boiler is defined as a gas-fired boiler as per the definition found in 40 CFR § 63.11237. The proposed boiler is designated as Source ID 041.



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**SECTION A. Plan Approval Inventory List**

Source ID	Source Name	Capacity/Throughput	Fuel/Material
041	49.05 MMBTU/HR JOHNSTON BOILER 2	49.050 MMBTU/HR	
		48,092.000 CF/HR	Natural Gas
		354.200 Gal/HR	#2 Oil
FML02	NO. 2 FUEL OIL		
FML05	NATURAL GAS LINE		
S41	JOHNSTON BOILER 2 STACK		

PERMIT MAPS

**SECTION B. General Plan Approval Requirements****#001 [25 Pa. Code § 121.1]****Definitions**

Words and terms that are not otherwise defined in this plan approval shall have the meanings set forth in Section 3 of the Air Pollution Control Act (35 P.S. § 4003) and 25 Pa. Code § 121.1.

#002 [25 Pa. Code § 127.12b (a) (b)]**Future Adoption of Requirements**

The issuance of this plan approval does not prevent the future adoption by the Department of any rules, regulations or standards, or the issuance of orders necessary to comply with the requirements of the Federal Clean Air Act or the Pennsylvania Air Pollution Control Act, or to achieve or maintain ambient air quality standards. The issuance of this plan approval shall not be construed to limit the Department's enforcement authority.

#003 [25 Pa. Code § 127.12b]**Plan Approval Temporary Operation**

This plan approval authorizes temporary operation of the source(s) covered by this plan approval provided the following conditions are met.

(a) When construction, installation, modification, or reactivation is being conducted, the permittee shall provide written notice to the Department of the completion of the activity approved by this plan approval and the permittee's intent to commence operation at least five (5) working days prior to the completion of said activity. The notice shall state when the activity will be completed and when the permittee expects to commence operation. When the activity involves multiple sources on different time schedules, notice is required for the commencement of operation of each source.

(b) Pursuant to 25 Pa. Code § 127.12b (d), temporary operation of the source(s) is authorized to facilitate the shakedown of sources and air cleaning devices, to permit operations pending the issuance of a permit under 25 Pa. Code Chapter 127, Subchapter F (relating to operating permits) or Subchapter G (relating to Title V operating permits) or to permit the evaluation of the air contaminant aspects of the source.

(c) This plan approval authorizes a temporary operation period not to exceed 180 days from the date of commencement of operation, provided the Department receives notice from the permittee pursuant to paragraph (a), above.

(d) The permittee may request an extension of the 180-day shakedown period if further evaluation of the air contamination aspects of the source(s) is necessary. The request for an extension shall be submitted, in writing, to the Department at least 30 days prior to the end of the initial 180-day shakedown period and shall provide a description of the compliance status of the source, a detailed schedule for establishing compliance, and the reasons compliance has not been established. This temporary operation period will be valid for a limited time and may be extended for additional limited periods, each not to exceed 180 days.

(e) The notice submitted by the permittee pursuant to subpart (a) above, prior to the expiration of the plan approval, shall modify the plan approval expiration date on Page 1 of this plan approval. The new plan approval expiration date shall be 180 days from the date of commencement of operation.

#004 [25 Pa. Code § 127.12(a) (10)]**Content of Applications**

The permittee shall maintain and operate the sources and associated air cleaning devices in accordance with good engineering practice as described in the plan approval application submitted to the Department.

#005 [25 Pa. Code §§ 127.12(c) and (d) & 35 P.S. § 4013.2]**Public Records and Confidential Information**

(a) The records, reports or information obtained by the Department or referred to at public hearings shall be available to the public, except as provided in paragraph (b) of this condition.

(b) Upon cause shown by the permittee that the records, reports or information, or a particular portion thereof, but not emission data, to which the Department has access under the act, if made public, would divulge production or sales figures or methods, processes or production unique to that person or would otherwise tend to affect adversely the

**SECTION B. General Plan Approval Requirements**

competitive position of that person by revealing trade secrets, including intellectual property rights, the Department will consider the record, report or information, or particular portion thereof confidential in the administration of the act. The Department will implement this section consistent with sections 112(d) and 114(c) of the Clean Air Act (42 U.S.C.A. § 7412(d) and 7414(c)). Nothing in this section prevents disclosure of the report, record or information to Federal, State or local representatives as necessary for purposes of administration of Federal, State or local air pollution control laws, or when relevant in a proceeding under the act.

#006 [25 Pa. Code § 127.12b]**Plan Approval Terms and Conditions**

[Additional authority for this condition is derived from 25 Pa. Code Section 127.13]

(a) This plan approval will be valid for a limited time, as specified by the expiration date contained on Page 1 of this plan approval. Except as provided in § 127.11a and 127.215 (relating to reactivation of sources; and reactivation), at the end of the time, if the construction, modification, reactivation or installation has not been completed, a new plan approval application or an extension of the previous approval will be required.

(b) If construction has commenced, but cannot be completed before the expiration of this plan approval, an extension of the plan approval must be obtained to continue construction. To allow adequate time for departmental action, a request for the extension shall be postmarked at least thirty (30) days prior to the expiration date. The request for an extension shall include the following:

- (i) A justification for the extension,
- (ii) A schedule for the completion of the construction

If construction has not commenced before the expiration of this plan approval, then a new plan approval application must be submitted and approval obtained before construction can commence.

(c) If the construction, modification or installation is not commenced within 18 months of the issuance of this plan approval or if there is more than an 18-month lapse in construction, modification or installation, a new plan approval application that meets the requirements of 25 Pa. Code Chapter 127, Subchapter B (related to plan approval requirements), Subchapter D (related to prevention of significant deterioration of air quality), and Subchapter E (related to new source review) shall be submitted. The Department may extend the 18-month period upon a satisfactory showing that an extension is justified.

#007 [25 Pa. Code § 127.32]**Transfer of Plan Approvals**

(a) This plan approval may not be transferred from one person to another except when a change of ownership is demonstrated to the satisfaction of the Department and the Department approves the transfer of the plan approval in writing.

(b) Section 127.12a (relating to compliance review) applies to a request for transfer of a plan approval. A compliance review form shall accompany the request.

(c) This plan approval is valid only for the specific source and the specific location of the source as described in the application.

#008 [25 Pa. Code § 127.12(a)(4) & 35 P.S. § 4008 & § 114 of the CAA]**Inspection and Entry**

(a) Pursuant to 35 P.S. § 4008, no person shall hinder, obstruct, prevent or interfere with the Department or its personnel in the performance of any duty authorized under the Air Pollution Control Act.

(b) The permittee shall also allow the Department to have access at reasonable times to said sources and associated air cleaning devices with such measuring and recording equipment, including equipment recording visual observations, as the Department deems necessary and proper for performing its duties and for the effective enforcement of the Air Pollution Control Act and regulations adopted under the act.

**SECTION B. General Plan Approval Requirements**

(c) Nothing in this plan approval condition shall limit the ability of the Environmental Protection Agency to inspect or enter the premises of the permittee in accordance with Section 114 or other applicable provisions of the Clean Air Act.

#009 [25 Pa. Code 127.13a]**Plan Approval Changes for Cause**

This plan approval may be terminated, modified, suspended or revoked and reissued if one or more of the following applies:

(a) The permittee constructs or operates the source subject to the plan approval in violation of the act, the Clean Air Act, the regulations promulgated under the act or the Clean Air Act, a plan approval or permit or in a manner that causes air pollution.

(b) The permittee fails to properly or adequately maintain or repair an air pollution control device or equipment attached to or otherwise made a part of the source.

(c) The permittee fails to submit a report required by this plan approval.

(d) The Environmental Protection Agency determines that this plan approval is not in compliance with the Clean Air Act or the regulations thereunder.

#010 [25 Pa. Code §§ 121.9 & 127.216]**Circumvention**

(a) The permittee, or any other person, may not circumvent the new source review requirements of 25 Pa. Code Chapter 127, Subchapter E by causing or allowing a pattern of ownership or development, including the phasing, staging, delaying or engaging in incremental construction, over a geographic area of a facility which, except for the pattern of ownership or development, would otherwise require a permit or submission of a plan approval application.

(b) No person may permit the use of a device, stack height which exceeds good engineering practice stack height, dispersion technique or other technique which, without resulting in reduction of the total amount of air contaminants emitted, conceals or dilutes an emission of air contaminants which would otherwise be in violation of this plan approval, the Air Pollution Control Act or the regulations promulgated thereunder, except that with prior approval of the Department, the device or technique may be used for control of malodors.

#011 [25 Pa. Code § 127.12c]**Submissions**

Reports, test data, monitoring data, notifications shall be submitted to the:

Regional Air Program Manager

PA Department of Environmental Protection

(At the address given on the plan approval transmittal letter or otherwise notified)

#012 [25 Pa. Code § 127.12(a)(9) & 40 CFR Part 68]**Risk Management**

(a) If required by Section 112(r) of the Clean Air Act, the permittee shall develop and implement an accidental release program consistent with requirements of the Clean Air Act, 40 CFR Part 68 (relating to chemical accident prevention provisions) and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act (P.L. 106-40).

(b) The permittee shall prepare and implement a Risk Management Plan (RMP) which meets the requirements of Section 112(r) of the Clean Air Act, 40 CFR Part 68 and the Federal Chemical Safety Information, Site Security and Fuels Regulatory Relief Act when a regulated substance listed in 40 CFR § 68.130 is present in a process in more than the listed threshold quantity at the facility. The permittee shall submit the RMP to the Environmental Protection Agency according to the following schedule and requirements:

(1) The permittee shall submit the first RMP to a central point specified by the Environmental Protection Agency no later than the latest of the following:

**SECTION B. General Plan Approval Requirements**

- (i) Three years after the date on which a regulated substance is first listed under § 68.130; or,
- (ii) The date on which a regulated substance is first present above a threshold quantity in a process.

(2) The permittee shall submit any additional relevant information requested by the Department or the Environmental Protection Agency concerning the RMP and shall make subsequent submissions of RMPs in accordance with 40 CFR § 68.190.

(3) The permittee shall certify that the RMP is accurate and complete in accordance with the requirements of 40 CFR Part 68, including a checklist addressing the required elements of a complete RMP.

(c) As used in this plan approval condition, the term "process" shall be as defined in 40 CFR § 68.3. The term "process" means any activity involving a regulated substance including any use, storage, manufacturing, handling, or on-site movement of such substances or any combination of these activities. For purposes of this definition, any group of vessels that are interconnected, or separate vessels that are located such that a regulated substance could be involved in a potential release, shall be considered a single process.

#013 [25 Pa. Code § 121.7]**Prohibition of Air Pollution**

No person may permit air pollution as that term is defined in the Air Pollution Control Act (35 P.S. §§ 4001-4015).

#014 [25 Pa. Code § 127.25]**Compliance Requirement**

A person may not cause or permit the operation of a source subject to § 127.11 (relating to plan approval requirements), unless the source and air cleaning devices identified in the application for the plan approval and the plan approval issued to the source, are operated and maintained in accordance with specifications in the application and conditions in the plan approval issued by the Department. A person may not cause or permit the operation of an air contamination source subject to this chapter in a manner inconsistent with good operating practices.



SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

II. TESTING REQUIREMENTS.

No additional testing requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

III. MONITORING REQUIREMENTS.

No additional monitoring requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

IV. RECORDKEEPING REQUIREMENTS.

No additional record keeping requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

V. REPORTING REQUIREMENTS.

No additional reporting requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VI. WORK PRACTICE REQUIREMENTS.

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall comply with all of the existing requirements of the current Title V Operating Permit No. 46-00001, unless specifically revised in this plan approval. The provisions in this plan approval shall be construed to supersede any contrary provisions in any previous operating permit.

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The source listed in this plan approval shall be installed and operated in accordance with the plans submitted with the plan approval application (as approved herein).

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

The permittee shall cease operation of the temporary Cleaver-Brooks rental boiler (035) no later than May 6, 2025, or within two (2) months, whichever is sooner, of the initial startup of the Johnston Boiler 2 (041).

VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements).

VIII. COMPLIANCE CERTIFICATION.

No additional compliance certifications exist except as provided in other sections of this plan approval including Section B (relating to Plan Approval General Requirements).

IX. COMPLIANCE SCHEDULE.

No compliance milestones exist.

**SECTION D. Source Level Plan Approval Requirements**

Source ID: 041

Source Name: 49.05 MMBTU/HR JOHNSTON BOILER 2

Source Capacity/Throughput:

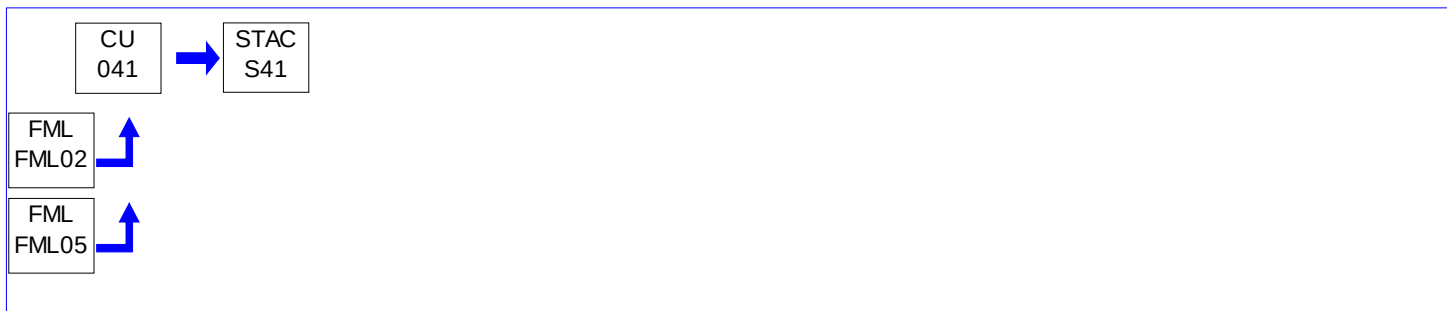
49.050 MMBTU/HR

48,092.000 CF/HR

Natural Gas

354.200 Gal/HR

#2 Oil

**I. RESTRICTIONS.****Emission Restriction(s).****# 001 [25 Pa. Code §123.11]****Combustion units**

A person may not permit the emission into the outdoor atmosphere of particulate matter from a combustion unit in excess of 0.4 pounds per million Btu of heat input, pursuant to 25 Pa. Code § 123.11(a)(1).

[The method of compliance for this condition is the use of compliant fuels as required herein.]

002 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

For the purposes of demonstrating compliance with Best Available Technology (BAT), as codified in 25 Pa. Code § 127.12, the permittee shall maintain the boiler manufacturer's emission data on file in order to demonstrate that the boiler meets the following emission limits.

- (a) 30 ppmdv NO_x at 3% O₂ when firing natural gas
- (b) 128 ppmdv NO_x at 3% O₂ when firing No. 2 fuel oil
- (c) 130 ppmdv CO at 3% O₂.

Fuel Restriction(s).**# 003 [25 Pa. Code §123.22]****Combustion units**

A person may not offer for sale, deliver for use, exchange in trade or permit the use of commercial fuel oil in a combustion unit in the Southeast Pennsylvania Air Basin if the commercial fuel oil contains sulfur in excess of 15 ppm (0.0015%) by weight sulfur content for No. 2 fuel oil, in accordance with 25 Pa. Code § 123.22(e)(2)(i), except as allowable in 25 Pa. Code § 123.22(e)(2)(ii) and (iii).

[Compliance with this condition assures compliance with the sulfur emission rate of 1.2 lb SO₂/MMBtu as found in 25 Pa. Code § 123.22(e)(1) for the outer zone, while firing No. 2 fuel oil.]

[Compliance with this condition assures compliance with the sulfur content of fuel oil requirement of 0.5% sulfur by weight as found in 40 CFR § 60.42c(d).]

004 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall fire this boiler by natural gas or No. 2 fuel oil. No. 2 fuel oil shall only be consumed during periods of gas curtailment, gas supply emergencies, or periodic testing.

**SECTION D. Source Level Plan Approval Requirements****# 005 Elective Restriction**

[Authority for this permit condition is derived from 25 Pa. Code § 127.35 and 40 CFR § 63.11194(d) and § 63.11195(e).]

(a) This boiler shall burn gaseous fuels not combined with any solid fuels, and liquid fuel only during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel. Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year.

(b) Fuel switching from natural gas to solid fossil fuel, biomass, or liquid fuel will result in the applicability of 40 CFR § 63 Subpart JJJJJ: National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers located at Area Sources.

II. TESTING REQUIREMENTS.**# 006 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

(a) The permittee shall conduct an initial source test on this boiler within 180 days, unless otherwise approved in writing by the Department, of initial startup of the boiler in order to demonstrate initial compliance with the NO_x and CO emission limitations while firing natural gas only, as established in this plan approval.

(1) The initial source test shall be conducted while the source is operating at maximum routine operating conditions or under other such conditions, within the capacity of the equipment, as may be requested by the Department.

(2) The initial source test shall be conducted using Department-approved procedures, and in accordance with the provisions of the appropriate EPA Test Methods, or other Department-approved methodology and 25 Pa. Code Chapter 139.

(3) The initial source test shall also be conducted in accordance with the provisions of the current version of the DEP Source Testing Manual and the EPA Clean Air Act National Stack Testing Guidance.

(4) Refer to PADEP Source Testing Program website online for further information related to source testing including Source Testing FAQ and the PADEP Source Testing Manual.

(b) The permittee shall conduct the source test to measure and determine Nitrogen Oxides and Carbon Monoxide emissions in parts per million dry volume basis (ppmdv), and to calculate a NO_x emission factors in lb NO_x per cubic foot natural gas to be used in emission calculations for this boiler, and in accordance with the following test procedures:

(1) Conduct three test runs each of at least one-hour duration while the source is operating at maximum routine operating conditions.

(2) Select the sampling port location and the number and location of traverse points at the exhaust using 40 CFR Part 60, Appendix A-1, Method 1 or 1A depending on stack diameter, or the sampling points selected according to 40 CFR Part 60, Appendix A-4, Method 7E Section 8.1.2.

(3) Determine the effluent characteristics by either:

(i) Calculating the exhaust flow in accordance with 40 CFR Part 60, Appendix A-7, Method 19 and measuring the O₂ concentration using 40 CFR Part 60, Appendix A-2, Method 3A; or

(ii) By measuring:

(A) The flow velocity, stack temperature, static pressure, and barometric pressure using 40 CFR Part 60, Appendix A-1, Method 2 or 2C depending on stack diameter;

(B) The gas density using 40 CFR Part 60, Appendix A-2, Method 3A; and

(C) The moisture content using 40 CFR Part 60, Appendix A-3, Method 4.

(4) Simultaneous to the determination of the O₂ concentration in (iii)(A) or (B) above, determine:

**SECTION D. Source Level Plan Approval Requirements**

- (i) Nitrogen Oxides using 40 CFR Part 60, Appendix A-4, Method 7E; and
- (ii) Carbon Monoxide using 40 CFR Part 60, Appendix A-4, Method 10.

(c) At least ninety (90) days prior to the test, the permittee shall submit to the Department for approval the procedures for the test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.

(d) At least thirty (30) days prior to the test, the Regional Air Quality Manager shall be informed of the date and time of the test.

(e) Within sixty (60) days after the source test(s), one electronic copy of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Manager for approval.

(f) In the event that any of the above deadlines cannot be met, the permittee may request an extension for the due date(s) in writing and include a justification for the extension. The Department may grant an extension for a reasonable cause.

007 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

(a) The permittee shall email all source test submissions (notifications, protocols, reports, supplemental information, etc.) to both the AQ Program Manager for the Southeast Regional Office and the PSIMS Administrator in Central Office (email addresses are provided below). Any questions or concerns about source testing submissions can be sent to RAEPstacktesting@pa.gov and the PSIMS Administrator will address them.

Southeast Region
RA-EPSEstacktesting@pa.gov

Central Office
RA-EPstacktesting@pa.gov

(b) The following pertinent information shall be listed on the title page.

(1) Test Date(s)

- (i) For protocols, provide the proposed date on which testing will commence or "TBD"
- (ii) For reports, provide the first and last day of testing

(2) Facility Identification Number (Facility - ID): For test programs that were conducted under a multi-site protocol, also include the PF ID under which the protocol was stored in PSIMS, as indicated in the protocol response letter.

(3) Source ID(s) for the applicable source(s) and air pollution control device(s): The term Source ID is used in the permit but "Other Id" is used in DEP electronic systems. They are the same number and must also be listed for control equipment

(4) Testing Requirements (all that apply, as applicable):

- (i) Plan approval number(s)
- (ii) Operating permit number
- (iii) Applicable federal subpart(s) (i.e. 40 CFR 60, Subpart JJJJ)
- (iv) Special purpose(s) (Consent Order, RFD, RACT II, Tier II, etc.)

(c) If confidential information must be submitted, submit both a public copy, which has been redacted, and a confidential copy. The cover page of each submittal should state whether it is a "Public Copy" or "Confidential Copy" and each page of the latter must be marked "CONFIDENTIAL."

008 [25 Pa. Code §139.16]**Sulfur in fuel oil.**

(a) The following are applicable to tests for the analysis of commercial fuel oil:

**SECTION D. Source Level Plan Approval Requirements**

- (1) The fuel oil sample for chemical analysis shall be collected in a manner that provides a representative sample. Upon the request of a Department official, the person responsible for the operation of the source shall collect the sample employing the procedures and equipment specified in 25 Pa. Code § 139.4(10) (relating to references).
- (2) Test methods and procedures for the determination of viscosity shall be that specified in 25 Pa. Code § 139.4(11) (relating to references). The viscosity shall be determined at 100°F.
- (3) Tests methods and procedures for the determination of sulfur shall be those specified in 25 Pa. Code § 139.4(12)--(15) and (20).
- (4) Results shall be reported in accordance with the units specified in 25 Pa. Code § 123.22 (relating to combustion units).
- (b) The testing requirements in subpart (a) above shall be waived in the event that a delivery receipt from the supplier, showing the percentage sulfur in the fuel, is obtained each time a fuel oil delivery is made.
- [Compliance with this streamlined permit condition assures compliance with 40 CFR § 60.42c(h)(1), 40 CFR § 60.44c(h), 40 CFR § 60.46c(e) and § 60.48c(f)(1), referring to sulfur dioxide standard, emission monitoring for sulfur dioxide, and testing fuel oil for sulfur content, respectively.]

III. MONITORING REQUIREMENTS.**# 009 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall calculate NO_x emissions from this boiler on a monthly basis and 12-month rolling sum using the emission factors determined during the latest source test and amount and type of fuel consumed by the boiler, as applicable.

010 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall monitor the amounts of each fuel combusted in this boiler during each month, pursuant to 40 CFR § 60.48c(g)(2), using the appropriate fuel meters for each fuel type.

IV. RECORDKEEPING REQUIREMENTS.**# 011 [25 Pa. Code §123.22]****Combustion units**

(a) The permittee shall maintain in electronic or paper format the record provided by the transferor for the shipment of commercial fuel oil as it changed hands to the permittee (ultimate consumer). This record must legibly and conspicuously contain the following information, in accordance with 25 Pa. Code § 123.22(g)(1) and (5):

- (1) The date of the sale or transfer.
- (2) The name and address of the transferor.
- (3) The name and address of the transferee.
- (4) The volume of commercial fuel oil being sold or transferred.
- (5) The identification of the sulfur content of the shipment of commercial fuel oil, determined using the sampling and testing methods specified in 25 Pa. Code § 123.22(f)(1) and § 139.16, expressed as the following statement for a shipment of No. 2 commercial fuel oil: "The sulfur content of this shipment is 15 ppm or below."
- (6) The location of the commercial fuel oil at the time of transfer.

(b) The permittee shall maintain the applicable records in electronic or paper format for 5 years, in accordance with 25 Pa. Code § 123.22(g)(4)(i).

**SECTION D. Source Level Plan Approval Requirements****# 012 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall maintain records of NO_x emissions for this boiler on a monthly basis and 12-month rolling sum.

013 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall keep records of the following for this boiler and the flue gas recirculation equipment:

- (a) inspections performed,
- (b) maintenance performed,
- (c) any deficiencies noted, and
- (d) any corrective actions taken.

014 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain records of the following work practice standards:

- (a) The concentrations of NO_x and CO in the effluent stream in parts per million by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler;
- (b) A description of any corrective actions taken as part of the tune-up;
- (c) The date(s) the annual tune-up/inspection was conducted;
- (d) The factory calibration certification sheets for the portable analyzer, if applicable; and
- (e) The type and amount of fuel used over the 12 months prior to the tune-up.

015 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain a copy of the results report for each source test conducted on the boiler.

016 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441]

The permittee shall record and maintain records of the amounts of each fuel combusted in this boiler during each month, pursuant to 40 CFR § 60.48c(g)(2).

017 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441, 40 CFR § 60.7, and 40 CFR § 60.48c(a).]

The permittee shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of the boiler; any malfunction of the air pollution control equipment; or any periods during which a monitoring device is inoperative.

018 Elective Restriction

[Authority for this permit condition is derived from 25 Pa. Code § 127.35 and 40 CFR § 63.11237.]

When the boiler operates on liquid fuel oil, the permittee shall maintain records of the following information on an annual basis:

- (a) the number of hours the boiler operated,
- (b) the reason for operation, i.e. gas curtailment, gas supply emergency, or periodic testing on liquid fuel.

**SECTION D. Source Level Plan Approval Requirements****V. REPORTING REQUIREMENTS.****# 019 [25 Pa. Code §123.22]****Combustion units**

The permittee shall provide an electronic or written copy of the commercial fuel oil shipment record to the Department upon request, in accordance with 25 Pa. Code § 123.22(g)(4)(ii).

020 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441, 40 CFR § 60.48c(d) and (e)(11) and 40 CFR § 60.4.]

(a) The permittee shall submit fuel oil sulfur reports required in 40 CFR § 60.48c(d) to DEP. The report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

(b) The reporting period for the reports required is each six-month period. All reports shall be postmarked by the 30th day following the end of the reporting period, pursuant to 40 CFR § 60.48c(j).

021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.48c]**Subpart Dc - Standards of Performance for Small Industrial- Commercial-Institutional Steam Generating Units
Reporting and recordkeeping requirements.**

[Additional authority for this permit condition is also derived from 25 Pa. Code § 127.441, 40 CFR § 60.7, and 40 CFR § 60.48c(a).]

(a) The permittee shall submit notification of the date of construction postmarked no later than 30 days after such date, as provided by 40 CFR § 60.7(a)(1).

(b) The permittee shall submit notification of the date of actual startup postmarked within 15 days after such date, as provided by 40 CFR § 60.7(a)(3).

(c) The construction and startup notifications shall include:

(1) The design heat input capacity of the boiler, and identification of fuels to be combusted in the boiler.

(2) If applicable, a copy of any federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR § 60.42c, or § 60.43c.

(3) The annual capacity factor at which the permittee anticipates operating the boiler based on all fuels fired and based on each individual fuel fired.

022 Elective Restriction

[Authority for this permit condition is derived from 25 Pa. Code § 127.35 and 40 CFR § 63.11225(g).]

(a) The permittee shall notify the Department and the USEPA of fuel switching from natural gas to liquid fuel other than liquid fuel consumption during periods of gas curtailment, gas supply emergencies, or periodic testing on liquid fuel.

(b) The permittee shall provide notice of the date upon which the switched occurred within 30 days of the change. The notification must identify:

(1) The name of the owner or operator of the affected source, the location of the source, the boiler(s) that have switched fuels, were physically changed, or took a permit limit, and the date of the notice.

(2) The date upon which the fuel switch, physical change, or permit limit occurred.

**SECTION D. Source Level Plan Approval Requirements****VI. WORK PRACTICE REQUIREMENTS.****# 023 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

The permittee shall conduct an annual tune-up/inspection on the boiler. At a minimum the tune-up/inspection shall consist of the following:

- (a) As applicable, inspect the burner, and clean or replace any components of the burner as necessary;
- (b) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available;
- (c) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly;
- (d) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with the NO_x requirement to which the boiler is subject.

024 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall, every three years, measure the concentrations in the effluent stream of NO_x and CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable analyzer as long as it is calibrated and operated according to the manufacturer's recommendations, the procedures specified in ASTM D-6522, and the following requirements:

- (a) The portable analyzer shall undergo factory laboratory calibration and cleaning every three years.
- (b) The portable analyzer shall have on-site calibration checks using certified calibration gases demonstrating the analyzer accuracy requirements specified in ASTM D-6522.
- (c) In order to verify emissions, the owner or operator shall conduct three, 20-minute test runs recording emissions data at least once each minute.
- (d) Depending on concentrations observed, fresh air purges should be performed according to manufacturer's recommendations.
- (v) Re-zeroing of the portable analyzer should be performed according to manufacturer's recommendations or at least before every test run.

025 [25 Pa. Code §127.12b]**Plan approval terms and conditions.**

The permittee shall maintain and operate the boiler and the flue gas recirculation system in accordance with the manufacturer's specifications and/or the facility's work practice standards, as applicable, and good air pollution control practices.

VII. ADDITIONAL REQUIREMENTS.**# 026 [25 Pa. Code §127.12b]****Plan approval terms and conditions.**

This boiler is manufactured by Johnston Boiler Company; it has a maximum heat input of 49.05 MMBtu/hr and is equipped with a low-NO_x burner, flue gas recirculation, and an oxygen trim system.



SECTION E. Source Group Plan Approval Restrictions.

**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.

**SECTION G. Emission Restriction Summary.**

Source Id	Source Description
041	49.05 MMBTU/HR JOHNSTON BOILER 2
Emission Limit	
130.000 PPMV	CO
30.000 PPMV	while firing natural gas NOX
128.000 PPMV	while firing No. 2 fuel oil NOX
0.400 Lbs/MMBTU	PM10

Site Emission Restriction Summary

Emission Limit	Pollutant
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SECTION H. Miscellaneous.



***** End of Report *****
