



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: March 18, 2005

Effective Date: March 18, 2005

Expiration Date: March 31, 2010

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. 54-399-034](#)

Federal Tax Id - Plant Code: 23-2999812-1

Plan Approval Description

The application for plan approval is to construct and operate a plant to co-produce approximately 5,000 barrels per day of high quality, ultra clean liquid hydrocarbon products and about 131 MW of electricity at the Mahanoy & W. Mahanoy Townships, Schuylkill County.

Owner Information

Name: WMPI PTY., LLC  
Mailing Address: PO BOX R  
FRACKVILLE, PA 17931-0312

Plant Information

Plant: WMPI PTY LLC/ COAL TO CLEAN FUELS PROJECT  
Location: 54 Schuylkill County 54935 Mahanoy Township  
SIC Code: 1311 Mining - Crude Petroleum And Natural Gas

Responsible Official

Name: JOHN W RICH  
Title: PRESIDENT  
Phone: (570) 874 - 1602

Plan Approval Contact Person

Name: JOHN W RICH  
Title: PRESIDENT  
Phone: (570) 874 - 1602

[Signature] \_\_\_\_\_

THOMAS A DILAZARO, NORTHEAST REGION AIR PROGRAM MANAGER



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Note: These same sub-sections are repeated for each source!

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## SECTION A. Plan Approval Inventory List

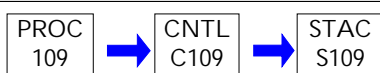
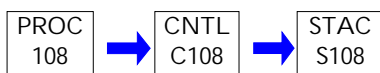
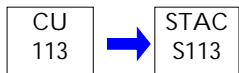
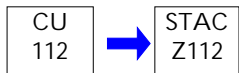
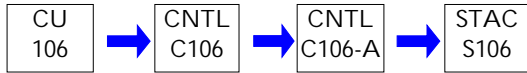
Source ID	Source Name	Capacity/Throughput	Fuel/Material
106	COMBINED CYCLE COMBUSTION GAS TURBINE	841.000 MMBTU/HR	
112	COOLING TOWER	MMBTU/HR	
113	400 HP EMERGENCY FIRE ENGINE	MMBTU/HR	
100	COAL TO CLEAN FUEL PLT		
101	COAL DAY BIN		
102	PET COKE DAY BIN		
103	LIMESTONE DAY BIN		
104	FEED CONVEYOR		
105	FEED MILLING & GRINDING		
107	HYDROCRACKER REACTOR		
108	HYDROCRACKER FRACTIONATOR		
109	SULFUR RECOVERY/TAILGAS TREATING UNIT		
110	13 PRODUCT STORAGE TANKS		
111	PRODUCT LOADING OPERATIONS		
114	GASIFICATION PLANT		
116	FEED CONVEYANCE, MILLING AND STORAGE		
117	WASTE WATER TREATMENT PLT		
118	METHANOL STORAGE		
119	AMINE TANK		
120	FISCHER-TROPSCH LIQUEFACTION PROCESS		
121	FT ALCOHOL STORAGE & WATER TREATING FEED		
C101	BAGHOUSE FOR COAL DAY BIN		
C102	BAGHOUSE FOR PET COKE DAY BIN		
C103	BAGHOUSE FOR LIMESTONE BIN		
C104	FEED BAGHOUSE FOR FEED CONVEYOR		
C105	BAGHOUSE FOR FEED MILLING & GRINDING		
C106	SELECTIVE CATALYST REDUCTION UNIT (SCR)		
C106-A	OXIDATION CATALYST		
C107	PROCESS HEATERS		
C108	PROCESS HEATERS		
C109	SRU/TGU THERMAL OXIDIZER		
C110	FLOATING ROOFS		
C111	PRODUCT LOADING THERMAL OXIDIZER		
C114	MAIN EMERGENCY FLARE		
C117	ADSORPTION EQUIPMENT		
S101	STACK FOR COAL DAY BIN BAGHOUSE		
S102	STACK FOR PET COKE BAGHOUSE		
S103	STACK FOR LIMESTONE BAGHOUSE		
S104	STACK FOR FEED CONVEYOR BAGHOUSE		
S105	STACK FOR FEED MILLING & GRINDING BAGHOU		
S106	STACK FOR SCR		
S107	STCK FOR PROCESS HEATER		
S108	STACK FOR PROCESS HEATER		
S109	STACK FOR SRU/TGU THERMAL OXIDIZER		
S111	STACK FOR PRODUCT LOADING THERMAL OXIDI.		
S113	STACK FOR EMERGENCY ENGINE		
S114	STACK FOR EMERGENCY MAIN FLARE		



## SECTION A. Plan Approval Inventory List

S117	STACK FOR ADSORPTION UNIT	
Z110	FUGITIVE STACK FOR FLOATING ROOFS	
Z112	FUGITIVE STACK FOR COOLING TOWER	

## PERMIT MAPS





PROC  
114



CNTL  
C114



STAC  
S114

PROC  
117



CNTL  
C117



STAC  
S117



## 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 should 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 should be submitted, in writing, to the Department at least 15 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 120 days.

If, at any time, the Department has cause to believe that air contaminant emissions from the sources listed in this plan approval may be in excess of the limitations specified in, or established pursuant to this plan approval or the permittee's operating permit, the permittee may be required to conduct test methods and procedures deemed necessary by the Department to determine the actual emissions rate. Such testing shall be conducted in accordance with 25 Pa. Code Chapter 139, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required.

#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



## SECTION B. General Plan Approval Requirements

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 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 § 127.13]

### Plan Approval Extensions

(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 should be postmarked at least thirty (30) days prior to the expiration date. The Department will not issue an extension after the plan approval expires. The request for an extension should 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.

#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(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.

(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.



**SECTION B. General Plan Approval Requirements**

#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 &amp; 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(9) &amp; 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:
    - (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 §



## SECTION B. General Plan Approval Requirements

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.

**SECTION C. Site Level Plan Approval Requirements****I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §123.1]

**Prohibition of certain fugitive emissions**

(a) No person may permit the emission into the outdoor atmosphere of fugitive air contaminant from a source other than the following:

(1) Construction or demolition of buildings or structures.

(2) Grading, paving and maintenance of roads and streets.

(3) Use of roads and streets. Emissions from material in or on trucks, railroad cars and other vehicular equipment are not considered as emissions from use of roads and streets.

(4) Clearing of land.

(5) Stockpiling of materials.

(6) Open burning operations.

(7) Sources and classes of sources other than those identified in paragraphs (1)-(6), for which the operator has obtained a determination from the Department that fugitive emissions from the source, after appropriate control, meet the following requirements:

(i) the emissions are of minor significance with respect to causing air pollution; and

(ii) the emissions are not preventing or interfering with the attainment or maintenance of any ambient air quality standard.

# 002 [25 Pa. Code §123.2]

**Fugitive particulate matter**

A person may not permit fugitive particulate matter to be emitted into the outdoor atmosphere from a source specified in Site Condition #001 (relating to prohibition of certain fugitive emissions) if such emissions are visible at the point the emissions pass outside the person's property.

# 003 [25 Pa. Code §123.31]

**Limitations**

A person may not permit the emission into the outdoor atmosphere of any malodorous air contaminants from any source in such a manner that the malodors are detectable outside the property of the person on whose land the source is being operated.

# 004 [25 Pa. Code §123.41]

**Limitations**

A person may not permit the emission into the outdoor atmosphere of visible air contaminants in such a manner that the opacity of the emission is either of the following:

(1) Equal to or greater than 20% for a period or periods aggregating more than three minutes in any 1 hour.

(2) Equal to or greater than 60% at any time.

# 005 [25 Pa. Code §123.42]

**Exceptions**

The limitations of Site Condition #004 shall not apply to a visible emission in any of the following instances:

(1) when the presence of uncombined water is the only reason for failure of the emission to meet the limitations.

(2) When the emission results from the operation of equipment used solely to train and test persons in observing the opacity of visible emissions.

(3) When the emission results from sources specified in Site Condition #001 (relating to prohibition of certain fugitive emissions).



## SECTION C. Site Level Plan Approval Requirements

# 006 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Total facility emissions from respective sources including emissions during start-ups and shutdowns shall not exceed the following limits during any consecutive a 12-month rolling period:

	Facility Emission Limits tons per year
NOx	99.9
CO	99.9
VOC	49.9
PM10(including H2SO4 mist)	99.9
SO2	99.9
Ammonia	100.0
H2SO4 Mist	15.0

# 007 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Pursuant to the Maximum Achievable Control Technology (MACT) Standards for Hazardous Air Pollutants (HAP) provisions of 25 Pa. Code Section 127.35, HAP emissions from the facility shall be less than 10 tons for any single HAP and 25 tons aggregate for any combination of HAPs during any consecutive 12-month rolling period.

# 008 [25 Pa. Code §129.14]

[Open burning operations](#)

(a) No person may permit the open burning of material in an area outside of air basins in a manner that:

- (1) The emissions are visible, at any time, at the point such emissions pass outside the property of the person on whose land the open burning is being conducted.
- (2) Malodorous air contaminants from the open burning are detectable outside the property of the person on whose land the open burning is being conducted.
- (3) The emissions interfere with the reasonable enjoyment of life or property.
- (4) The emissions cause damage to vegetation or property.
- (5) The emissions are or may be deleterious to human or animal health.

(b) Exceptions: The requirements of subsections (a) do not apply where the open burning operations result from:

- (1) A fire set to prevent or abate a fire hazard, when approved by the Department and set by or under the supervision of a public officer.
- (2) A fire set for the purpose of instructing personnel in fire fighting, when approved by the Department.
- (3) A fire set for the prevention and control of disease or pests, when approved by the Department.
- (4) A fire set in conjunction with the production of agricultural commodities in their unmanufactured state on the premises of the farm operation.
- (5) A fire set for the purpose of burning domestic refuse, when the fire is on the premises of a structure occupied solely as a dwelling by two families or less and when the refuse results from the normal occupancy of such structure.
- (6) A fire set solely for recreational or ceremonial purposes.
- (7) A fire set solely for cooking food.



## SECTION C. Site Level Plan Approval Requirements

### II. TESTING REQUIREMENTS.

# 009 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

If requested by the Department, the company shall perform stack tests in accordance with the provisions of Chapter 139 of the Rules and Regulations of the Department, within the time specified by the Department.

# 010 [25 Pa. Code §139.1]

**Sampling facilities.**

Upon the request of the Department, the person responsible for a source shall provide adequate sampling ports, safe sampling platforms and adequate utilities for the performance by the Department of tests on such source. The Department will set forth, in the request, the time period in which the facilities shall be provided as well as the specifications for such facilities.

# 011 [25 Pa. Code §139.11]

**General requirements.**

The following provisions are applicable to source tests for determining emissions from stationary sources:

- (1) Performance tests shall be conducted while the source is operating at maximum routine operating conditions or under such other conditions, within the capacity of the equipment, as may be requested by the Department.
- (2) The Department will consider for approval where sufficient information is provided to verify the source conditions existing at the time of the test and where adequate data is available to show the manner in which the test was conducted. Information submitted to the Department shall include, as a minimum all of the following:
  - (i) A thorough source description, including a description of any air cleaning devices and the flue.
  - (ii) Process conditions, for example, the charging rate of raw material or rate of production of final product, boiler pressure, oven temperature, and other conditions which may affect emissions from the process.
  - (iii) The location of the sampling ports.
  - (iv) Effluent characteristics, including velocity, temperature, moisture content, gas density (percentage CO, CO<sub>2</sub>, O<sub>2</sub> and N<sub>2</sub>), static and barometric pressures.
  - (v) Sample collection techniques employed, including procedures used, equipment descriptions and data to verify that isokinetic sampling for particulate matter collection occurred and that acceptable test conditions were met.
  - (vi) Laboratory procedures and results.
  - (vii) Calculated results.

### III. MONITORING REQUIREMENTS.

# 012 [25 Pa. Code §123.43]

**Measuring techniques**

Visible emissions may be measured using either of the following:

- (1) A device approved by the Department and maintained to provide accurate opacity measurements.
- (2) Observers, trained and qualified to measure plume opacity with the naked eye or with the aid of any devices approved by the Department.

# 013 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

- (a) A visual inspection of the facility shall be performed on a daily basis to determine if fugitive or visible emissions are detectable at the facility.
- (b) Visible emissions may be measured according to the methods specified in Section C, Condition #010, or alternatively, plant personnel who observe any visible emissions will report the incident of visible emissions to the Department within four



## SECTION C. Site Level Plan Approval Requirements

hours of each incident and make arrangements for a certified observer to verify the opacity of the visible emissions.

# 014 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall monitor the quantity and type of fuel burned. The type of fuel shall be determined by certified fuel tests provided by the supplier or through certified testing conducted through the permittee. This testing shall, at a minimum, detail the sulfur and ash content of the fuel.

### IV. RECORDKEEPING REQUIREMENTS.

# 015 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain a record of the facilities visible and fugitive emission inspections. At a minimum, the permittee shall record the date, time, results of the inspection, and individual conducting the inspection.

# 016 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The permittee shall maintain fuel certification, fuel usage, and facility emission records at the facility. These records shall be updated on a monthly basis and the emissions shall be calculated on a 12-month rolling sum. All records shall be maintained for a period of not less than 5 years and shall be made available to the Department upon request.

### V. REPORTING REQUIREMENTS.

# 017 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Any notification as a result of any condition herein should be directed to:

Thomas A. DiLazaro  
Air Quality Program Manager  
Department of Environmental Protection  
2 Public Square  
Wilkes-Barre, PA 18711-0790

# 018 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The company, within one hour of occurrence, shall notify the Department, at 570-826-2511, of any malfunction, recordkeeping and reporting errors, or other possible non-compliance issues, which result in, or may possibly be resulting in, the emission of air contaminants in excess of the limitations specified in, or established pursuant to, any applicable rule or regulations contained in Article III of the Rules and Regulations of the Department of Environmental Protection. A written report shall be submitted to the Department within five working days following the incident describing the malfunction, recordkeeping and reporting error or other non-compliance issue and the corrective actions being taken. The Department may take enforcement action for any violations of the applicable standards.

### VI. WORK PRACTICE REQUIREMENTS.

# 019 [25 Pa. Code §123.1]

**Prohibition of certain fugitive emissions**

The permittee shall take all reasonable actions to prevent particulate matter from becoming airborne. These actions shall include, but not be limited to, the following:

- (1) Use, where possible, of water or chemicals for control of dust in the demolition of buildings or structures, construction operations, the grading of roads, or the clearing of land.
- (2) Application of asphalt, oil, water or suitable chemicals on dirt roads, material stockpiles and other surfaces which may give rise to airborne dusts.
- (3) Paving and maintenance of roadways.
- (4) Prompt removal of earth or other material from paved streets onto which earth or other material has been transported by trucking or earth moving equipment, erosion by water, or other means.



## SECTION C. Site Level Plan Approval Requirements

# 020 [25 Pa. Code §127.441]

**Operating permit terms and conditions.**

The use of any in-plant roads associated with the aforementioned source(s) shall not result in the emission of fugitive particulate matter in excess of the limitation specified in section 123.1 and 123.2 of the Rules and Regulations of the Department of Environmental Protection.

### VII. ADDITIONAL REQUIREMENTS.

# 021 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The company shall not impose conditions upon or otherwise restrict the Department's access to the aforementioned source(s) and/or any associated air cleaning device(s) and shall allow the Department to have access at any time to said source(s) and associated air cleaning device(s) 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.

# 022 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The company shall not impose conditions upon or otherwise restrict the Department's access to the aforementioned source(s) and/or any associated air cleaning device(s) and shall allow the Department to have access at any time to said source(s) and associated air cleaning device(s) 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.

### 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: 106                      Source Name: COMBINED CYCLE COMBUSTION GAS TURBINE  
Source Capacity/Throughput:                      841.00 MMBTU/HR

Conditions for this source occur in the following groups: GROUP 4



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).





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

Source ID: 112

Source Name: COOLING TOWER

Source Capacity/Throughput:

MMBTU/HR

Conditions for this source occur in the following groups: GROUP 4



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

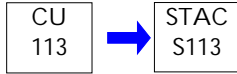
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 113

Source Name: 400 HP EMERGENCY FIRE ENGINE

Source Capacity/Throughput:

MMBTU/HR

**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.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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



## SECTION D. Source Level Plan Approval Requirements

Source ID: 100

Source Name: COAL TO CLEAN FUEL PLT

Source Capacity/Throughput:

### 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.

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

### VII. ADDITIONAL REQUIREMENTS.

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



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

Source ID: 101

Source Name: COAL DAY BIN

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



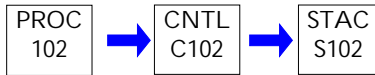
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 102

Source Name: PET COKE DAY BIN

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

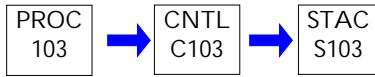


**SECTION D. Source Level Plan Approval Requirements**

Source ID: 103 Source Name: LIMESTONE DAY BIN

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



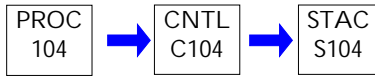
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 104

Source Name: FEED CONVEYOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 105 Source Name: FEED MILLING & GRINDING

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



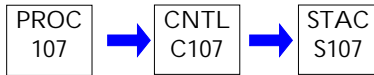
## SECTION D. Source Level Plan Approval Requirements

Source ID: 107

Source Name: HYDROCRACKER REACTOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3



### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



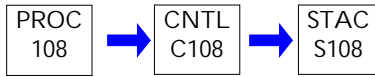
**SECTION D. Source Level Plan Approval Requirements**

Source ID: 108

Source Name: HYDROCRACKER FRACTIONATOR

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 109

Source Name: SULFUR RECOVERY/TAILGAS TREATING UNIT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 2



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 110

Source Name: 13 PRODUCT STORAGE TANKS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

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

Source ID: 111

Source Name: PRODUCT LOADING OPERATIONS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 114 Source Name: GASIFICATION PLANT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 2



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



## SECTION D. Source Level Plan Approval Requirements

Source ID: 116

Source Name: FEED CONVEYANCE, MILLING AND STORAGE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 1

### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 117

Source Name: WASTE WATER TREATMENT PLT

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 5



**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).





## SECTION D. Source Level Plan Approval Requirements

Source ID: 118

Source Name: METHANOL STORAGE

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3

### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



## SECTION D. Source Level Plan Approval Requirements

Source ID: 119

Source Name: AMINE TANK

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3

### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



## SECTION D. Source Level Plan Approval Requirements

Source ID: 120

Source Name: FISCHER-TROPSCH LIQUEFACTION PROCESS

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3

### I. RESTRICTIONS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### 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) and/or Section E (Source Group Restrictions).

### VI. WORK PRACTICE REQUIREMENTS.

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

### VII. ADDITIONAL REQUIREMENTS.

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).



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

Source ID: 121

Source Name: FT ALCOHOL STORAGE & WATER TREATING FEED TANK

Source Capacity/Throughput:

Conditions for this source occur in the following groups: GROUP 3

**I. RESTRICTIONS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**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) and/or Section E (Source Group Restrictions).

**VI. WORK PRACTICE REQUIREMENTS.**

No additional work practice requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**VII. ADDITIONAL REQUIREMENTS.**

No additional requirements exist except as provided in other sections of this plan approval including Section B (Plan Approval General Requirements) and/or Section E (Source Group Restrictions).

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 1

Group Description: FEED PRETREATMENT PLANT

Sources included in this group:

ID	Name
101	COAL DAY BIN
102	PET COKE DAY BIN
103	LIMESTONE DAY BIN
104	FEED CONVEYOR
105	FEED MILLING & GRINDING
116	FEED CONVEYANCE, MILLING AND STORAGE
C101	BAGHOUSE FOR COAL DAY BIN
C102	BAGHOUSE FOR PET COKE DAY BIN
C103	BAGHOUSE FOR LIMESTONE BIN
C104	FEED BAGHOUSE FOR FEED CONVEYOR
C105	BAGHOUSE FOR FEED MILLING & GRINDING

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provision of 25 PA Code, Chapter 127, the facility is subject to the following air contaminant emission limitations:

a. Total Particulate (including PM10)--- 0.02 grains per dscf from the feed conveying and milling process baghouses as determined by Method 5 stack testing.

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The storage and handling of the material collected in the air cleaning device(s) associated with the aforementioned source(s) shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in Section 123.1 of chapter 123 of the Rules and Regulations of the Department of Environmental Protection.

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The use of any in-plant roads associated with the aforementioned source(s) shall not result in the emission of fugitive particulate matter in excess of the limitations specified in Sections 123.1 and 123.2 of Chapter 123 of the Rules and Regulations of the Department of Environmental Protection.

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Methods for controlling particulate emissions resulting from the feed handling activities shall include, but not to be limited to, the following.

A. Enclosing all conveyor belts totally on the top, bottom and sides as needed to contain the fugitive emissions in compliance with 25 PA Code 123.1.

B. Application of water or chemical dust suppressant to the transfer points to prevent the discharge into the atmosphere of visible emissions.

C. Control of fugitive particulate matter emissions from the vehicle used to transport feed may include, but is not limited to the following measures:

- I. Use of completely enclosed vehicles.
- II. Tarping the vehicle;
- III. Maintaining the vehicle body in such a condition that any leaks of material are prevented;

**SECTION E. Source Group Plan Approval Restrictions.**

- IV. Spraying the materials in the vehicle with a chemical dust suppressant;
  - V. Washing and dewatering truck tires and underbody.
- D. Application of water or chemical dust suppressant to the storage pile as needed to prevent the discharge into the atmosphere of fugitive emissions.
- E. The fuel conveyors and hoppers shall be enclosed and freeze-protected water spray systems shall be installed as needed to control potential fugitive air contaminant emissions from the feed stakeout conveyor, feed storage pile, unpaved plant roadways and fly ash dumpster.

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Fugitive emissions from the material storage & handling operations shall be minimize by enclosing all conveyor belts totally on the top, bottom and sides to contain the fugitive emissions in compliance with 25 PA Code 123.1.

# 006 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

In Plant Roads & Trucks

A. In order to prevent fugitive particulate matter resulting from the use of the in plant roads from becoming airborne, the company shall adhere to the following plan:

1. All paved in plant roads shall be swept on as-needed basis, weather permitting.
2. Water and/or chemicals to be applied on all paved and unpaved inplant roads as needed to control the fugitive emissions.
3. The company shall keep a log of the dates of road sweeping or cleaning.

B. In order to prevent fugitive particulate matter resulting from truck traffic, the company shall adhere to the following plan:

1. All feed and raw material delivery trucks must be tarped or enclosed when transporting the fuel or raw materials to the plant facility.

**II. TESTING REQUIREMENTS.**

# 007 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. Within 60 days after achieving the maximum production rate, but not later than 180 days after initial start-up, the Owner or Operator shall demonstrate compliance with emission limit established in condition # 003 of restriction, as per Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. The stack tests shall be performed while the aforementioned source(s) are operating at the maximum routine operating conditions or under such other conditions, within the capacity of the equipment as may be requested by the Department.
2. At least 60 days prior to the test, the Owner or Operator shall submit to the Department for approval the procedures for a test and a sketch with dimensions indicating the location of sampling ports and other data to ensure the collection of representative samples.
3. At least 30 days prior to the test, the Regional Air Quality Program Manager shall be informed of the date and time of the test.
4. Within 60 days after the source test(s), two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Program Manager for approval.

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Mechanical gauges shall be installed and maintained to indicate, in inches of water column, the static pressure differential

**SECTION E. Source Group Plan Approval Restrictions.**

across the baghouse.

# 009 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The company shall ensure that the control devices shall be equipped with the applicable monitoring equipment and the monitoring equipment shall be installed, calibrated, operated, and maintained according to the vendor's specifications at all times the control device is in use.

**IV. RECORDKEEPING REQUIREMENTS.**

# 010 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall record the pressure drop across the dust collector. At a minimum these recordings shall be taken once per week, while the source and collector is in operation. The recordings shall be maintained in a logbook and made available to the Department upon request.

**V. REPORTING REQUIREMENTS.**

# 011 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Any changes in the location of the aforementioned source, or any changes in the process or control equipment would be consider a modification and would require the submittal of an amended application for plan approval in accordance with the provisions of 25 PA Code 127.11 and 127.12.

**VI. WORK PRACTICE REQUIREMENTS.**

# 012 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Dust collected in the baghouse filters shall be discharged into closed containers only.

# 013 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The permittee shall keep on hand a sufficient quantity of spare baghouse bags/filters for the baghouse(s) associated with the aforementioned source(s) in order to be able to immediately replace any bags/filters requiring replacement due to deterioration resulting from routine operation of the source(s) and baghouse(s).

# 014 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The aforementioned source(s) may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.

# 015 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The company shall keep on hand such equipment and materials as are necessary to take reasonable action (including but not necessarily limited to the application of water, oil or chemicals) to prevent fugitive particulate matter resulting from the use of any roadways and/or material stockpiling operations associated with the plant from becoming airborne and shall be used, as necessary, to prevent such fugitive particulate matter from becoming airborne.

# 016 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The storage and handling of the material collected in the air cleaning device(s) associated with the aforementioned source(s) shall not at any time result in the emission of fugitive air contaminants in excess of the limitations specified in Section 123.1 of chapter 123 of the Rules and Regulations of the Department of Environmental Protection.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 2

Group Description: SHELL GASIFICATION ISLAND

Sources included in this group:

ID	Name
109	SULFUR RECOVERY/TAILGAS TREATING UNIT
114	GASIFICATION PLANT
C109	SRU/TGU THERMAL OXIDIZER
C114	MAIN EMERGENCY FLARE

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provision of 25 Pa. Code §§127.1 and 127.12(a)(5), sulfur recovery unit/tail gas treatment unit (SRU/TGU) is subject to the following air contaminant emission rates:

1. NOX- 0.098 lbs/MMBtu heat input
2. CO- 0.0824 lbs/MMBtu heat input
3. VOC- 0.0054 lbs/MMBu heat input
4. PM - 0.0075 lbs/MMBtu haet input
5. SOx- 250 ppm by volume (dry basis) of sulfur dioxide (SO2) at zero percent excess air.

**II. TESTING REQUIREMENTS.**

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. Within 60 days of achieving the maximum production rate at the facility, but no later than 180 days after the initial startup, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to demonstrate the compliance with the emission limitation set by the condition # 001. The stack test shall be performed while the aforementioned source is operating at the maximum rated capacity as stated on the application. If testing is performed at a rate less than maximum rated capacity, the operation is restricted to the process-input rate of testing at such level until a subsequent compliance test is performed at a maximum rated capacity.
2. At least two weeks prior to the test, the Regional Air Quality Program Manager shall be informed of the date and time of the test.
3. At least sixty (60) days prior to the test, a pre-test protocol shall be submitted to the Department for review.
4. Within sixty (60) days of the completion of the test,, two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Program Manager.

**III. MONITORING REQUIREMENTS.**

# 003 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.105]

**Subpart J - Standards of Performance for Petroleum Refineries****Monitoring of emissions and operations.**

(1) An instrument for continuously monitoring and recording the concentration (dry basis, zero percent excess air) of SO<sub>2</sub> emissions into the atmosphere shall be installed for sulfur recovery plants thremal oxidizer. The monitor shall include an oxygen monitor for correcting the data for excess air.

(i) The span values for this monitor are 500 ppm SO<sub>2</sub> and 25 percent O<sub>2</sub>.

(ii) The performance evaluations for this SO<sub>2</sub> monitor shall use Performance Specification 2. Methods 6 or 6C and 3 or 3A shall be used for conducting the relative accuracy evaluations.



**SECTION E. Source Group Plan Approval Restrictions.****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.**

# 004 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.105]

[Subpart J - Standards of Performance for Petroleum Refineries](#)

[Monitoring of emissions and operations.](#)

The sulfur recovery plant is subject to Subpart J of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director  
Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103

**VI. WORK PRACTICE REQUIREMENTS.**

# 005 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.104]

[Subpart J - Standards of Performance for Petroleum Refineries](#)

[Standards for sulfur oxides.](#)

The company shall not burn in thermal oxidizer any process gas that contains hydrogen sulfide (H<sub>2</sub>S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this requirements.

**VII. ADDITIONAL REQUIREMENTS.**

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

**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 3

Group Description: FISCHER-TROPSCH LIQUEFACTION AND PRODUCT WORK-UP

Sources included in this group:

ID	Name
107	HYDROCRACKER REACTOR
108	HYDROCRACKER FRACTIONATOR
110	13 PRODUCT STORAGE TANKS
111	PRODUCT LOADING OPERATIONS
118	METHANOL STORAGE
119	AMINE TANK
120	FISCHER-TROPSCH LIQUEFACTION PROCESS
121	FT ALCOHOL STORAGE & WATER TREATING FEED TANK
C107	PROCESS HEATERS
C108	PROCESS HEATERS
C110	FLOATING ROOFS
C111	PRODUCT LOADING THERMAL OXIDIZER
C117	ADSORPTION EQUIPMENT

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provision of 25 Pa. Code §§127.1 and 127.12(a)(5), the VOC emissions to the atmosphere from the thermal oxidizer due to the loading of liquid product into tank trucks are not to exceed:

(a) 10 milligrams of total organic compounds per liter of product loaded;

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Fugitive emissions shall be calculated from the Fischer Tropsch section and other portion of the facility by using an effective LDAR program approved by the Department based on 12 month rolling sum.

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provision of 25 Pa. Code §§127.1 and 127.12(a)(5), hydrocracker reactor heater and hydrocracker fractionator heater are subject to the following air contaminant emission rates:

1. NOX- 0.049 lbs/MMBtu heat input
2. CO- 0.0824 lbs/MMBtu heat input
3. VOC- 0.0054 lbs/MMBu heat input
4. PM - 0.0075 lbs/MMBtu haet input

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology provision of 25 Pa. Code §§127.1 and 127.12(a)(5), SOX emissions from each hydrocracker reactor heater and hydrocracker fractionator heater shall not exceed 3.2 lbs/hr.

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The sources are subject to Subpart J and Subpart GGG of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR § 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:



## SECTION E. Source Group Plan Approval Restrictions.

Director  
Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

# 006 [25 Pa. Code §129.59]

**Bulk gasoline terminals**

A person may not cause or permit the loading of naphtha product into a vehicular tank from a bulk terminal unless the loading racks are equipped with a loading arm with a vapor collection adaptor and pneumatic, hydraulic or other mechanical means to force a vapor-tight seal between the adaptor and the hatch of the tank. A means shall be provided to prevent naphtha product drainage from the loading device when it is not connected to the hatch, and to accomplish complete drainage before the removal. When loading is effected through means other than hatches, loading and vapor lines shall be equipped with fittings which make vaportight connections and which will be closed upon disconnection.

# 007 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.104]

**Subpart J - Standards of Performance for Petroleum Refineries  
Standards for sulfur oxides.**

The company shall not burn in thermal oxidizer any gas that contains hydrogen sulfide (H<sub>2</sub>S) in excess of 230 mg/dscm (0.10 gr/dscf). The combustion in a flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions is exempt from this requirements.

II. TESTING REQUIREMENTS.

# 008 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) To ensure the practical enforceability of the annual Hazardous Air Pollutant (HAP) emissions limit, the permittee shall, on a quarterly basis, perform tests of all petroleum liquids being stored and distributed at the facility in order to determine the HAP content of each.

(b) The quarterly testing of a petroleum liquid may be waived if the HAP content of the liquid can be demonstrated from documentation provided by the manufacturer (i.e. Material Safety and Data Sheets, manufacturer testing results, etc.).

# 009 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. Within 60 days of achieving the maximum production rate at the facility, but no later than 180 days after the initial startup, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to demonstrate the compliance with the emission limitation set by the condition # 001, 002, 003, & 004. The stack test shall be performed while the aforementioned source is operating at the maximum rated capacity as stated on the application. If testing is performed at a rate less than maximum rated capacity, the operation is restricted to the process-input rate of testing at such level until a subsequent compliance test is performed at a maximum rated capacity.

2. At least two weeks prior to the test, the Regional Air Quality Program Manager shall be informed of the date and time of the test.

3. At least sixty (60) days prior to the test, a pre-test protocol shall be submitted to the Department for review.

4. Within sixty (60) days of the completion of the test, two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Program Manager.

# 010 [25 Pa. Code §139.14]

**Emissions of VOCs.**

The following are applicable to tests for determining the emissions of VOCs from product loading operations.

(a) Test methods for VOC emissions shall use a technique having at least a 95% collection efficiency for VOCs.

(b) Except for those sources or systems specified in this subsection, the test methods and procedures and equipment for

**SECTION E. Source Group Plan Approval Restrictions.**

VOCs, excluding carbon dioxide, carbon monoxide and methane shall be equivalent to those specified in EPA Method 25 or as specified in 139.4(5). The owner or operator of a source may exclude ethane from the VOC measurement. If ethane is excluded, the measurement of ethane shall be reported separately.

(c) For vapor recovery systems, test methods and procedures and equipment for VOCs shall be equivalent to those specified in EPA Method 25B or as specified in the DEP Source Testing Manual, including future revisions as noted in 25 Pa. Code, Section 139.5(b) (relating to revisions to the source testing manual and continuous source monitoring manual).

(d) For determining the VOC leak tightness of truck tanks, test methods and procedures shall be equivalent to those specified in EPA Method 27 or as specified in the DEP Source Testing Manual, including future revisions as noted in 25 Pa. Code, Section 139.5(b) (relating to revisions to the source testing manual and continuous source monitoring manual).

(e) For determining the magnitude of VOC leaks from tank trucks and vapor collection systems, test methods and procedures shall be equivalent to those specified in EPA Method 21 or as specified in the DEP Source Testing Manual, including future revisions as noted in 25 Pa. Code, Section 139.5(b) (relating to revisions to the source testing manual and continuous source monitoring manual).

(f) For determining the magnitude of VOC leaks from petroleum refinery equipment, from synthetic organic chemical and polymer manufacturing equipment and from surface active agent manufacturing equipment, test methods and procedures shall be equivalent to those specified in EPA Method 21 or as specified in 139.4(5). The owner or operator of a source may exclude methane and ethane from this measurement. If methane and ethane are excluded, the measurement of methane and ethane together shall be reported.

**III. MONITORING REQUIREMENTS.**

# 011 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The operating temperature of the thermal oxidizer unit shall be continuously measured and recorded. The temperature shall be monitored and maintained at the minimum temperature achieved during the performance test in which compliance with the emission limitation was demonstrated.

# 012 [25 Pa. Code §129.58]

**Petroleum refineries--fugitive sources**

Monitoring shall be done as follows:

(1) The owner or operator shall conduct a monitoring program consistent with the following requirements:

(i) Check yearly, by methods referenced in 139.14, pump seals and pipeline valves in liquid service.

(ii) Check quarterly by methods referenced in 139.14, compressor seals, pipeline valves in gaseous service, and pressure relief valves in gaseous service.

(iii) Check monthly, by visual methods, all pump seals.

(iv) Check within 24 hours, by methods referenced in 139.14, pump seal from which VOC liquids are observed to be dripping.

(v) Check, by methods referenced in 139.14, relief valve within 24 hours after it has vented to the atmosphere.

(vi) Check within 27 hours after repair, by methods referenced in 139.14, component that was found leaking.

(2) Pressure relief devices which are connected to an operating flare header, vapor recovery devices, inaccessible valves, storage tank valves and valves that are not externally regulated are exempt from the monitoring requirements in paragraph (1).

(3) The owner or operator, upon the detection of a leaking component, shall affix a weatherproof and readily visible tag, bearing an identification number and the date upon which the leak is located to the leaking component. This tag shall remain in place until the leaking refinery component is repaired.

**SECTION E. Source Group Plan Approval Restrictions.**

# 013 [25 Pa. Code §129.62]

**General standards for bulk gasoline terminals/plants, and small gasoline storage tanks**

The permittee shall monitor the concentration of flammable gases around potential leak sources to determine compliance with the Lower Explosive Limit (LEL). Such monitoring shall be done on a semi-annual basis, using a portable gas monitor during product loading operations.

# 014 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.113b]

**Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984****Testing and procedures.**

The following procedures shall apply to these internal floating roof tanks:

(a) At least once every 12 months, the permittee shall visually inspect the internal floating roof and the primary seal or the secondary seal (if one is in service) through manholes and roof hatches on the fixed roof. If the internal floating roof is not resting on the surface of the Volatile Organic Liquid (VOL) inside the storage vessel, or there is liquid accumulated on the roof, or the seal is detached, or there are holes or tears in the seal fabric, the permittee shall repair the items or empty and remove the storage vessel from service within 45 days. If a failure that is detected during Inspections required in this paragraph cannot be repaired within 45 days and if the vessel cannot be emptied within 45 days, a 30-day extension may be requested from the Department in the inspection report required in Source Group Level Condition #002(b). Such a request for an extension must document that alternate storage capacity is unavailable and specify a schedule of actions the company will take that will assure that the control equipment will be repaired or the vessel will be emptied as soon as possible.

(b) Each time the storage vessel is emptied and degassed, the permittee shall visually inspect the internal floating roof, the primary seal, the secondary seal (if one is in service), gaskets, slotted membranes and sleeve seals (if any). If the internal floating roof has defects, the primary seal has holes, tears, or other openings in the seal or the seal fabric, or the secondary seal has holes, tears, or other openings in the seal or the seal fabric, or the gaskets no longer close off the liquid surfaces from the atmosphere, or the slotted membrane has more than 10 percent open area, the permittee shall repair the items as necessary so that none of the condition specified in this paragraph exist before refilling the storage vessel with VOL. In no event shall inspections conducted in accordance with this provision occur at intervals greater than 10 years.

(c) The permittee shall notify the Department and EPA Region III, in writing, at least 30 days prior to the refilling of this storage vessel, for which an inspection is required by paragraph (b) of this section to afford the opportunity to have an observer present. If the inspection required by paragraph (b) of this section is not planned and the permittee could not have known about the inspection 30 days in advance of refilling the tank, the permittee shall notify the Department at least 7 days prior to the refilling of this storage vessel. Notification shall be made by telephone, immediately followed by written documentation demonstrating why the inspection was unplanned. Alternatively, this notification including the written documentation may be made in writing and sent by express mail so that it is received by the Department at least 7 days prior to the refilling.

**IV. RECORDKEEPING REQUIREMENTS.**

# 015 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall, on an annual basis, calculate and record fugitive VOC emissions from the product storage tanks, using the most current EPA's TANK software, for the previous calendar year.

# 016 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The company shall maintain a record of the amount of product throughput, in gallons, at the facility. This record shall be updated on a monthly basis and shall be maintained on a 12-month rolling sum.

# 017 [25 Pa. Code §129.56]

**Storage tanks greater than 40,000 gallons capacity containing VOCs**

(a) To determine compliance, the permittee shall, on a monthly basis, maintain records of the following information for each storage tank:

- (1) The name of the petroleum liquid being stored in the tank;
- (2) The period of time over which the liquid was stored; and
- (3) The maximum true vapor pressure of that particular liquid during the term of storage.



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(b) For volatile organic compounds whose storage temperature is governed by ambient weather conditions, the vapor pressure under actual storage conditions shall be determined using a temperature which is representative of the average storage temperature for the hottest month of the year in which such storage takes place.

# 018 [25 Pa. Code §129.58]

**Petroleum refineries--fugitive sources**

Record keeping shall comply with the following:

(1) The owner or operator of a petroleum refinery shall maintain a leaking components' monitoring log which shall contain, at a minimum, the following data:

- (i) The name and process unit where the component is located.
- (ii) The type of component-- for example, valve, seal.
- (iii) The tag number of component.
- (iv) The dates on which the leaking component was discovered and repaired.
- (v) The date and instrument reading of the recheck procedure after a leaking component was repaired.
- (vi) A record of the calibration of the monitoring instrument.
- (vii) Those leaks that cannot be repaired until turnaround.
- (viii) The total number of components checked and the total number of components found leaking.

(2) Copies of the monitoring log shall be retained by the owner for 2 years after the date on which the record was made or the report was prepared.

(3) Copies of the monitoring log shall immediately be made available to the Department, upon verbal or written request, at any reasonable time.

# 019 [25 Pa. Code §129.59]

**Bulk gasoline terminals**

An owner or operator of naphtha product plant shall maintain records of daily throughput. These records shall be retained for at least 2 years and shall be made available to the Department on request.

# 020 [25 Pa. Code §129.62]

**General standards for bulk gasoline terminals/plants, and small gasoline storage tanks**

Recordkeeping shall be as follows:

(1) The owner or operator shall maintain records of certification testing and repairs. The records shall identify the gasoline tank truck, vapor collection system or vapor control system; the date of the test or repair; and, if applicable, the type of repair and the date of retest. The records shall be maintained in a legible, readily-available condition for 1 year after the date the testing or repair was completed.

(2) The records of certification tests required by paragraph (1) shall contain:

- (i) The tank truck tank serial number.
- (ii) The initial test pressure and the time of the reading.
- (iii) The final test pressure and the time of the reading.
- (iv) The initial test vacuum and the time of the reading.
- (v) The final test vacuum and the time of the reading.



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(vi) At the top of each report page, the company name and the date and location of the tests on that page.

(vii) The name and title of the person conducting the test.

(3) Copies of records and reports under this subsection shall be made available to the Department upon verbal or written request at any reasonable time. A copy of the test results for each tank shall be kept with the truck.

# 021 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.115b]  
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984  
Reporting and recordkeeping requirements.

In addition to other requirements, recordkeeping for internal floating roof tanks shall also include the following:

(a) The permittee shall keep a record of each inspection performed on tanks. Each record shall identify the storage vessel on which the inspection was performed and shall contain the date the vessel was inspected and the observed condition of each component of the control equipment (seals, internal floating roof, and fittings).

(b) If any of the conditions described above are detected during the annual visual inspection, a report shall be furnished to the Department within 30 days of the inspection. Each report shall identify the storage vessel, the nature of the defects, and the date the storage vessel was emptied or the nature of and date the repair was made.

(c) After each inspection that finds holes or tears in the seal or seal fabric, or defects in the internal floating roof, or other control equipment defects, a report shall be furnished to the Department within 30 days of the inspection. The report shall identify the storage vessel and the reason it did not meet the specifications and list each repair made.

# 022 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.116b]  
Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984  
Monitoring of operations.

(a) The permittee shall keep readily accessible records showing the dimensions of each storage vessel and an analysis showing the capacities of each storage vessel. These records shall be maintained for the duration of the site.

(b) The permittee shall maintain a record of the Volatile Organic Liquid (VOL) stored in this tank, the period of storage, and the maximum true vapor pressure of that VOL during the respective storage period.

(c) The permittee shall notify the Department within 30 days when the maximum true vapor pressure of the liquid stored in this tank exceeds the respective maximum true vapor pressure values for each volume range.

(d) Available data on the storage temperature may be used to determine the maximum true vapor pressure as determined below.

(1) For vessels operated above or below ambient temperatures, the maximum true vapor pressure is calculated based upon the highest expected calendar-month average of the storage temperature. For vessels operated at ambient temperatures, the maximum true vapor pressure is calculated based upon the maximum local monthly average ambient temperature as reported by the National Weather Service.

(2) For crude oil or refined petroleum products the vapor pressure may be obtained by the following:

(i) Available data on the Reid vapor pressure and the maximum expected storage temperature based on the highest expected calendar-month average temperature of the stored product may be used to determine the maximum true vapor pressure from nomographs contained in API Bulletin 2517 (incorporated by reference--see 40 CFR Part 60, Subpart 60.17), unless the Department specifically requests that the liquid be sampled, the actual storage temperature determined, and the Reid vapor pressure determined from the sample(s).

(ii) The true vapor pressure of each type of crude oil with a Reid vapor pressure less than 13.8 kPa or with physical properties that preclude determination by the recommended method is to be determined from available data and recorded if the estimated maximum true vapor pressure is greater than 3.5 kPa.

(3) For other liquids, the vapor pressure:



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- (i) May be obtained from standard reference texts, or
- (ii) Determined by ASTM Method D2879-83 (incorporated by reference see 40 CFR Part 60, Subpart 60.17); or
- (iii) Measured by an appropriate method approved by the Department; or
- (iv) Calculated by an appropriate method approved by the Department.

**V. REPORTING REQUIREMENTS.**

# 023 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

(a) The permittee shall observe the following requirements to demonstrate compliance with the facility-wide VOC and HAP emission limitations of Site Level Condition #, 007.

(1) At the end of each calendar year, the permittee shall, using the HAP content data, for the liquids stored and distributed at the facility, and the daily throughput records from the previous three (12) months, create a 12-month rolling summation report of the emissions of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) from the facility. The report shall specify the emissions (in units of tons) for each of the twelve (12) consecutive 12-month periods ending in the preceding year. The permittee shall submit each Annual Emissions Report to the Department by March 15th of each year.

(b) For each Annual Emissions Report, the permittee shall determine fugitive losses of VOC's and HAP's using the following methods:

(1) The actual emissions of Volatile Organic Compounds (VOCs) and Hazardous Air Pollutants (HAPs) from the storage tanks and the loading racks shall be determined using the latest EPA methods.

(2) Any change in the calculation method used in paragraph (b)(1) above, shall be subject to approval by the Department. Application for approval shall be submitted no less than thirty (30) days prior to any change in the calculation method.

# 024 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The storage tanks are subject to Subpart Kb of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR § 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director  
Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

# 025 [25 Pa. Code §129.58]

**Petroleum refineries--fugitive sources**

Reporting shall comply with the following:

(1) The owner or operator, upon completion of each yearly and quarterly monitoring procedure, shall do the following:

(i) Submit a report to the Department by the last business day of January, April, July, and October that lists all leaking components that were located during the previous calendar quarter but not repaired within 15 days, all leaking refinery components awaiting unit turnaround, the total number of components inspected and the total number of refinery components found leaking.

(ii) Submit a signed statement with the report attesting to the fact that, with the exception of those leaking components listed in subparagraph (i), monitoring and repairs were performed as stipulated in the monitoring program.

**VI. WORK PRACTICE REQUIREMENTS.**

# 026 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The permittee shall perform a daily visual inspection of all potential leak points to minimize the risk of spillage of products during storage or material transfers.





## SECTION E. Source Group Plan Approval Restrictions.

# 027 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Product shall not be loaded into any tank trucks unless the vapor collection system of the truck and the loading rack are properly connected and operated.

# 028 [25 Pa. Code §129.56]

**Storage tanks greater than 40,000 gallons capacity containing VOCs**

A. No person may permit the placing, storing, or holding in a stationary tank, reservoir, or other container with a capacity greater than 40,000 gallons of any volatile organic compounds with a vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions unless such tank, reservoir or other container is a pressure tank capable of maintaining working pressures sufficient at all times to prevent vapor or gas loss to the atmosphere or is designed and equipped with one of the following vapor loss control devices:

(1) An internal floating roof. This control equipment shall not be permitted if the volatile organic compounds have a vapor pressure of 11 psia (76 kilopascals) or greater under actual storage conditions.

# 029 [25 Pa. Code §129.56]

**Storage tanks greater than 40,000 gallons capacity containing VOCs**

(a) Each internal floating roof must be fitted with a primary seal and must comply with the following equipment requirements:

(1) A closure seal, or seals, to close the space between the roof edge and tank wall is used.

(2) There are no holes, tears, or other openings in the seal or any seal fabric or materials.

(3) Openings except stub drains are equipped with covers, lids or seals such that:

(i) The cover, lid or seal is in the closed position at all times except when in actual use;

(ii) Automatic bleeder vents are closed at all times except when the roof is floated off or landed on the roof leg supports.

(iii) Rim vents, if provided are set to open when the roof is being floated off the roof leg supports or at the recommended setting of the manufacturer.

(b) For the purposes of this section, the petroleum liquid storage vessels listed below comply with the equipment requirements of this section. These tanks shall comply with the maintenance, inspection, and reporting requirements of this section. These petroleum liquid storage vessels are those:

(1) Which contain a petroleum liquid with a true vapor pressure less than 4 psia (27.6 kilopascals) and which are of welded construction and which presently possess a metallic-type shoe seal, a liquid-mounted foam seal, a liquid-mounted liquid filled type seal, or other closure device of demonstrated equivalence approved by the Department.

(2) Which are of welded construction, equipped with a metallic-type shoe primary seal and has a secondary seal from the top of the shoe seal to the tank wall (shoe-mounted secondary seal).

# 030 [25 Pa. Code §129.57]

**Storage tanks less than or equal to 40,000 gallons capacity containing VOCs**

The provisions of this section shall apply to above ground stationary storage tanks with a capacity equal to or greater than 2,000 gallons which contain volatile organic compounds with vapor pressure greater than 1.5 psia (10.5 kilopascals) under actual storage conditions. Storage tanks covered under this section shall have pressure relief valves which are maintained in good operating condition and which are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest possible pressure and vacuum in accordance with state or local fire codes or the National Fire Prevention Association guidelines or other national consensus standards acceptable to the Department. Section 129.56(g) (relating to storage tanks greater than 40,000 gallons capacity containing volatile organic compounds) applies to this section.

# 031 [25 Pa. Code §129.58]

**Petroleum refineries--fugitive sources**

(a) The owner or operator shall do the following:



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(1) Develop and conduct a monitoring program consistent with the requirements as listed in monitoring section.

(2) Record leaking components which have a VOC concentration exceeding 10,000 ppm when tested in accordance with the provisions of 139.14 (relating to emissions of VOCs) and place an identifying tag on each refinery component.

(3) Repair and retest the leaking components as soon as possible. Every reasonable effort shall be made to repair each leak within 15 days unless a refinery unit shutdown is required to make the necessary repair.

(4) Identify leaking components which cannot be repaired until the unit is shutdown for turnaround.

(b) Except for safety pressure relief valves and fittings on all valves 1 inch or smaller, no owner or operator shall install or operate a valve at the end of a pipe or line containing VOCs unless the pipe or line is sealed with a second valve, a blind flange, a plug or a cap. The sealing device may be removed only when a sample is being taken or during maintenance operations.

(c) Pipeline valves and pressure relief valves in gaseous VOC service shall be marked in some manner that will be readily obvious to both facility personnel performing monitoring and the Department.

# 032 [25 Pa. Code §129.62]

[General standards for bulk gasoline terminals/plants, and small gasoline storage tanks](#)

Products may not be spilled or discarded in sewers or stored in open containers or handled in a manner that would result in uncontrolled evaporation to the atmosphere.

# 033 [25 Pa. Code §129.62]

[General standards for bulk gasoline terminals/plants, and small gasoline storage tanks](#)

(A) An owner or operator may not permit the transfer of product between the tank truck or trailer and a stationary storage tank unless the following conditions are met:

(1) The vapor balance system is in good working order and is designed and operated in a manner that prevents:

(i) Gauge pressure from exceeding 18 inches of H<sub>2</sub>O (4500 pascals) and vacuum from exceeding 6 inches of water (1500 pascals) in the tank truck.

(ii) A reading equal to or greater than 100% of the lower explosive limit--LEL, measured as propane--at 1 inch from points on the perimeter of a potential leak source when measured by the method referenced in 139.14 (relating to emissions of volatile organic compounds) during loading or unloading operations.

(iii) Avoidable liquid leaks during loading or unloading operations at bulk terminals.

(2) A truck, vapor balance system or vapor disposal system, if applicable, that exceeds the limits in paragraph (1) is repaired and retested within 15 days.

(3) There are no visually- or audibly-detectable leaks in the tank truck's or trailer's pressure/vacuum relief valves and hatch covers, the truck tanks or storage tanks, or associated vapor and liquid lines during loading or unloading.

(4) The pressure and vacuum relief valves on storage vessels and tank trucks or trailers are set to release at no less than .7 psig (4.8 kilopascals) of pressure or .3 psig (2.1 kilopascals) of vacuum or the highest allowable pressure and vacuum as specified in State or local fire codes, the National Fire Prevention Association guidelines or other National consensus standards acceptable to the Department. Upon demonstration by the owner or operator of an underground small gasoline storage tank that the vapor balance system specified in paragraph (1) will achieve a 90% vapor recovery efficiency without a pressure and vacuum relief valve and that an interlock system, sufficient to ensure connection of the vapor recovery line prior to delivery of the product, will be used--no pressure and vacuum relief valve is required. The vacuum setting on the pressure and vacuum relief valve on an underground storage tank may be set at the lowest vacuum setting which is sufficient to keep the vent closed at zero pressure and vacuum.

(B) A person may not allow a tank truck unless the tank truck:

(1) Has been tested by the owner or operator within the immediately preceding 12 months in accordance with 139.14.

(2) Sustains a pressure change of no more than 750 pascals (3 inches of H<sub>2</sub>O) in 5 minutes when pressurized to a gauge



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pressure of 18 inches of H<sub>2</sub>O (4,500 pascals) or evacuated to a gauge pressure of 6 inches of H<sub>2</sub>O (1,500 pascals) during the testing required in paragraph (1).

(3) Is repaired by the owner or operator and retested within 15 days of testing if it does not meet the criteria in paragraph (2).

(4) Displays a clear marking near the Department of Transportation Certification plate required by 49 CFR 178.340-10b (relating to certification), which shows the most recent date upon which the tank truck passed the test required in this subsection.

# 034 [40 CFR Part 60 Standards of Performance for New Stationary Sources §40 CFR 60.112b]

Subpart Kb - Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984  
Standard for volatile organic compounds (VOC).

The permittee shall maintain on these storage vessels a fixed roof in combination with an internal floating roof meeting the following specifications:

(a) The internal floating roof shall rest or float on the liquid surface (but not necessarily in complete contact with it) inside a storage vessel that has a fixed roof. The internal floating roof shall be floating on the liquid surface at all times, except during initial fill and during those intervals when the storage vessel is completely emptied or subsequently emptied and refilled. When the roof is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as rapidly as possible.

(b) The internal floating roof shall be equipped with the following closure device between the wall of the storage vessel and the edge of the internal floating roof:

(1) A foam or liquid filled seal mounted in contact with the liquid (liquid-mounted seal). A liquid mounted seal means a foam or liquid filled seal mounted in contact with the liquid between the wall of the storage vessel and the floating roof continuously around the circumference of the tank.

(2) Two seals mounted one above the other so that each forms a continuous closure that completely covers the space between the wall of the storage vessel and the edge of the internal floating roof. The lower seal may be vapor-mounted, but both must be continuous.

(3) A mechanical shoe seal. A mechanical shoe seal is a metal sheet held vertically against the wall of the storage vessel by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

(c) Each opening in a noncontact internal floating roof except for automatic bleeder vents (vacuum breaker vents) and the rim space vents is to provide a projection below the liquid surface.

(d) Each opening in the internal floating roof except for leg sleeves, automatic bleeder vents, rim space vents, column wells, ladder wells, sample wells, and stub drains is to be equipped with a cover or lid which is to be maintained in a closed position at all times (i.e., no visible gap) except when the device is in actual use. The cover or lid shall be equipped with a gasket. Covers on each access hatch and automatic gauge float well shall be bolted except when they are in use.

(e) Automatic bleeder vents shall be equipped with a gasket and are to be closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.

(f) Rim space vents shall be equipped with a gasket and are to be set to open only when the internal floating roof is not floating or at the manufacturer's recommended setting.

(g) Each penetration of the internal floating roof for the purpose of sampling shall be a sample well. The sample well shall have a slit fabric cover that covers at least 90 percent of the opening.

(h) Each penetration of the internal floating roof that allows for passage of a column supporting the fixed roof shall have a flexible fabric sleeve seal or a gasketed sliding cover.

(i) Each penetration of the internal floating roof that allows for passage of a ladder shall have a gasketed sliding cover.

**SECTION E. Source Group Plan Approval Restrictions.****VII. ADDITIONAL REQUIREMENTS.**

# 035 [25 Pa. Code §129.58]

**Petroleum refineries--fugitive sources**

1. The owner or operator of a petroleum refinery may submit an alternative plan for the control of leaks from petroleum refinery equipment to the Department. If the Department finds that the alternative plan will achieve an emission reduction which is equivalent to or greater than the reduction which can be achieved under this section and that the alternative plan is as enforceable as this section, then the Department will allow the implementation of this alternative plan.
2. The owner or operator of a petroleum refinery may submit to the Department a list of refinery components the inspection of which would involve a significant element of danger. The Department may exempt the refinery components on this list from the requirements of this section if the owner or operator can demonstrate to the satisfaction of the Department that a significant element of danger exists which cannot be reasonably eliminated and that these exemptions will not result in a significant reduction in the effectiveness in the control of VOC emissions.

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Group Name: GROUP 4

Group Description: COMBINED CYCLE PLANT

Sources included in this group:

ID	Name
106	COMBINED CYCLE COMBUSTION GAS TURBINE
112	COOLING TOWER
C106	SELECTIVE CATALYST REDUCTION UNIT (SCR)
C106-AOXIDATION CATALYST	

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12 (a) (5), the Owner or Operator shall limit the emission of ammonia for each selective catalytic reduction (SCR) system exhaust to 10 ppmvd, measured dry volume corrected to 15% oxygen.

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12 (a) (5), the Owner or Operator shall limit the NOx and CO emissions (corrected to 15% O2) from gas combustion turbine to the following:

1. NOX- 2.5 PPMVD, 1 hour NOx averages calculated from a 3-hour rolling block average
2. CO- 3.0 PPMVD, 1 hour CO averages calculated from a 3-hour rolling block average.

# 003 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.12 (a) (5), the Owner or Operator shall limit the PM, VOC and SOX emissions from gas combustion turbine to the following:

1. PM- 0.0066 lbs/MMBtu (HHV) heat input on an hourly basis.
2. VOC- 0.0021 lbs/MMBtu (HHV) heat input on an hourly basis.
3. SOX- 0.015 % by volume at 15% oxygen and on a dry basis

# 004 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Whenever the turbine is in the cold startup period the allowable PPMVD emission limit listed in condition # 002 does not apply. The Owner or Operator shall limit the NOx and CO emissions (corrected to 15% O2) from gas combustion turbine to the following during cold start up period.

1. NOX- 240 PPMVD, 1 hour NOx averages.
2. CO- 47 PPMVD, 1 hour CO averages.

The cold start up period of the turbine shall not exceed for three hours. Above three hours period from cold startup time will be consider as a normal operation and the PPMVD limit as listed in condition # 002 shall apply. However, the Department reserves the right to change the cold startup definition of the unit based on information available at the time of issuance of the operating permit for the facility.

# 005 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa. Code Section 127.1, the Owner or Operator shall limit the particulate emissions from the cooling tower to 13.0 tons per year in a 12-month rolling period. The solids concentration in the blowdown for cooling tower shall not exceed 5000 mg/L (averaged over 12-month rolling period).

Cooling tower blowdown water shall be analyzed monthly for the solids content. The 12 month rolling average for the solids

**SECTION E. Source Group Plan Approval Restrictions.**

content must be in compliance with the acceptable levels as specified in condition above. The Owner or Operator shall keep a record of the results of the testing for the cooling tower blowdown water total solids content. All test records must be maintained for two years and be made available to the Department upon request.

# 006 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Technology (BAT) provisions of 25 Pa Code Section 127.1, the combustion turbine shall primarily fire process gas from the plant (syngas) and low sulfur distillate fuel oil (liquid fuel) with sulfur content no greater than 0.5% by weight.

**II. TESTING REQUIREMENTS.**

# 007 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. Within 180 days of initial start-up, a stack test shall be performed in accordance with the provision of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection to demonstrate the compliance with the emission limitations set by the condition #s. 001,002 & 003 for turbine. The stack tests shall be performed while the aforementioned sources are operating at the maximum rated capacity on each fuel as stated on the application. If testing is performed at a rate of less than full production, operation is restricted to the process-input rate of testing at such level until a subsequent compliance test is performed at a full production.
2. At least two-week prior to the test, the Regional Air Quality Program Manager shall be informed of the date and time of the test.
3. At least sixty (60) days prior to the test, a pre-test protocol shall be submitted to the Department for review.
4. Within sixty (60) days of the completion of the test, two copies of the complete test report, including all operating conditions, shall be submitted to the Regional Air Quality Program Manager.
5. If at any time the Department has cause to believe that air contaminant emissions from the aforementioned source(s) may be in excess of the limitations specified in, or established pursuant to, any applicable rule or regulation contained in Article III of the Rules and Regulations of the Department of Environmental Protection, the company shall be required to conduct whatever tests are deemed necessary by the Department to determine the actual emission rate(s). Such testing shall be conducted in accordance with the revisions of Chapter 139 of the Rules and Regulations Environmental Protection, where applicable, and in accordance with any restrictions or limitations established by the Department at such time as it notifies the company that testing is required

**III. MONITORING REQUIREMENTS.**

# 008 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. Continuous emission monitoring system for nitrogen oxides (as NO<sub>x</sub>), carbon monoxide (CO), diluent gas (O<sub>2</sub> or CO<sub>2</sub>), ammonia, opacity and exhaust gas flow rate at all points where gas contaminants are measured must be approved by the Department and installed, operated and maintained in accordance with the requirements of Chapter 139 of the Rules and Regulations of the Department of Environmental Protection. Proposals containing information as listed in the Phase I section of the Department's Continuous Source Monitoring Manual for CEMs must be submitted at least 3 months prior to the initial start-up of the combustion turbine.

As an alternative to operating a CEM for direct measurement of ammonia slip, the Owner or Operator may substitute an "alternative" monitoring system that will assure compliance with ammonia slip limitations, if approved by the Department. This alternative monitoring plan must be submitted for approval in conjunction with those for the CEM system.

2. Phase I Department approval must be obtained for the monitors described in Condition # 1 of continuous source monitoring requirements prior to initial start-up. Phase III Department approval must be obtained within 60 days of achieving the maximum production rate at which the source will be operated, but not later than 180 days after initial start-up. Department review time for the Phase III report (time between postmark of the Owner or Operator's Phase III report and the postmark of the Department's response letter) will not be charged against the source in determining compliance with this condition. Information on obtaining Department approval is included in the Department's Continuous Source Monitoring

**SECTION E. Source Group Plan Approval Restrictions.**

Manual.

# 009 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

1. A continuous monitoring system shall be installed and operated to monitor and record the fuel consumption. This system shall be accurate to within plus or minus 5 percent.
2. The company shall monitor sulfur content in #2 fuel oil by certification from the fuel supplier for each shipment prior to any amount of fuel oil being combusted. The certification required by this condition may be based on sampling by the fuel supplier of the oil placed in storage in the tank or tanks from which the fuel supplier draws oil for shipment to the permittee.
3. Oxygen, carbon monoxide and nitrogen oxide emission rate shall be monitored and recorded continuously to monitor compliance with the emission limits specified in condition # 2. Record keeping and reporting procedures must be in accordance with the requirements of the continuous source monitoring manual.

**IV. RECORDKEEPING REQUIREMENTS.**

# 010 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The Owner or Operator shall record each start-up and shutdown, including date and times of each event, for the combustion turbine.

# 011 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

The Owner or Operator shall, at a minimum, record the following:

- a. Hours of start-up and shutdown period for turbine.
- b. Monthly hours of operation for turbine.
- c. Monthly emissions of TSP/PM10, SO<sub>2</sub>, NO<sub>x</sub>, CO, H<sub>2</sub>SO<sub>4</sub> and VOC.
- d. 12-month rolling total of the emissions.

# 012 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

Records required under this Plan Approval, 40 CFR Part 60 Subpart GG and 40 CFR Parts 72 and 75 shall be kept for a period of 5 years and shall be made available to the Department upon request.

- a. The Owner or Operator shall maintain records on all air pollution control system performance evaluations and records of calibration checks, adjustments and maintenance performed on all equipment, which is subject to this plan approval.
- b. The Owner or Operator shall maintain a copy of the manufacturer's recommendation for the combustion turbine and air pollution control equipment on-site.
- c. The Owner or Operator shall maintain a copy of the manufacturer's recommendations for all CEMs that are required by this Plan Approval.
- d. The Owner or Operator shall keep a record of the date of malfunction, the time of the malfunction, the cause of the malfunction, and the action taken to correct the malfunction.

**V. REPORTING REQUIREMENTS.**

# 013 [25 Pa. Code §127.12b]

[Plan approval terms and conditions.](#)

This source is subject to Subpart GG of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR §60.4 requires submission of copies of all requests, reports, applications, submittals, and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director  
Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103

**SECTION E. Source Group Plan Approval Restrictions.****VI. WORK PRACTICE REQUIREMENTS.**

# 014 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

1. The aforementioned source(s) may only be operated as long as the associated air pollution control devices are operated and maintained in accordance with the specifications set forth in the respective plan approval(s), and the application(s) submitted for said plan approval(s) (as approved by the Department), and in accordance with any conditions set forth herein.
2. The company shall perform an annual adjustment and/or tune-up on the combustion process as per manufacturer specifications. The sources shall be operated and maintained in accordance with the manufacturers specification and with good air pollution control practices.
3. The company shall maintain and operates the air pollution control equipment and sources in accordance with good engineering practice.

**VII. ADDITIONAL REQUIREMENTS.**

# 015 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pusuant to the requirement of 40 CFR Part 68, the applicant shall prepare and submit a Risk Management Plan (RMP) to EPA prior to the storage and use of anhydrous ammonia at the facility.



**SECTION E. Source Group Plan Approval Restrictions.**

Group Name: GROUP 5

Group Description: WASTE WATER TREATMENT PLANT

Sources included in this group:

ID	Name
117	WASTE WATER TREATMENT PLT
C117	ADSORPTION EQUIPMENT

**I. RESTRICTIONS.****Emission Restriction(s).**

# 001 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

Pursuant to the Best Available Control Technology provision of 25 PA Code, Chapter 127, the carbon adsorption unit shall meet the following limitations:

(a) Removal efficiency--- 90 % removal efficiency for the VOC's (Volatile Organic Compound) from the wastewater.

**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.**

# 002 [25 Pa. Code §127.12b]

**Plan approval terms and conditions.**

The sources are subject to Subpart QQQ of the Standards of Performance for New Stationary Sources and shall comply with all applicable requirements of this Subpart. 40 CFR § 60.4 requires submission of copies of all requests, reports, applications, submittals and other communications to both EPA and the Department. The EPA copies shall be forwarded to:

Director  
Air Protection Division  
US EPA, Region III  
1650 Arch Street  
Philadelphia, PA 19103-2029

**VI. WORK PRACTICE REQUIREMENTS.**

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

**VII. ADDITIONAL REQUIREMENTS.**

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



**SECTION F. Alternative Operation Requirements.**

No Alternative Operations exist for this Plan Approval facility.



**SECTION G. Emission Restriction Summary.**

No emission restrictions listed in this section of the permit.



SECTION H. Miscellaneous.



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

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