



APPENDIX B-6

Portions of Homer City Plan Approvals 32-00055H and 32-00055I

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
AIR QUALITY PROGRAM

PLAN APPROVAL

Issue Date: April 2, 2012

Effective Date: February 28, 2017

Revision Date: February 23, 2017

Expiration Date: August 28, 2017

Revision Type: Extension

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

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

Plan Approval No. 32-00055H

Federal Tax Id - Plant Code: 80-0833693-1

Owner Information

Name: HOMER CITY GENERATION LP

Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Plant Information

Plant HOMER CITY GEN LP/ CENTER TWP

Location: 32 Indiana County 32912 Center Township

SIC Code: 4911 Trans. & Utilities - Electric Services

Operator

Name: NRG HOMER CITY SERVICES LLC [If different from owner]

Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Responsible Official

Name: ANTHONY GARAVENTA

Title: STATION GEN MGR

Phone: (724) 479 - 6233

Plan Approval Contact Person

Name: GARY CLINE

Title: ENVIRONMENTAL MANAGER

Phone: (724) 479 - 6255

[Signature] _____

MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION

SECTION C. Site Level Plan Approval Requirements

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Combined SO₂ emissions from Unit 1, Unit 2, and Unit 3 shall not exceed 6,360 lb/hr at anytime, including during periods of startup or shutdown.

Operation Hours Restriction(s).

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

No more than one unit (Unit 1, Unit 2, or Unit 3) shall operate in startup mode simultaneously.

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.~~

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

~~All logs and required records shall be maintained on-site for a minimum of five years and shall be made available to the Department upon request.~~

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

~~The Owner/Operator shall maintain on-site the following comprehensive and accurate records for the air contamination sources and air cleaning devices authorized under this Plan Approval:~~

- ~~* Amount of lime delivered to the Facility per month by rail, by truck, and in total.~~
- ~~* Amount of lime used in Unit 1 & 2 each month.~~
- ~~* Amount of byproduct disposal per month.~~
- ~~* Results of visible stack, fugitive, and malodor emission inspections.~~
- ~~* The developed maintenance schedule for, and all maintenance activities performed on, the NID systems.~~
- ~~* The developed maintenance schedule for, and all maintenance activities performed on, each bin vent collector.~~

V. ~~REPORTING REQUIREMENTS.~~

005 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

~~The Owner/Operator of each stationary source emitting greenhouse gases (GHG) in the form of CO₂ equivalent (CO₂e), and GHG on a mass basis shall add actual emissions of GHG in the form of CO₂e and GHG on a mass basis to the calendar year source report currently required under TV 32-00055. A description of the method used to calculate the emissions and the time period over which the calculation is based shall be included. The statement shall also contain a certification by a company officer or the plant manager that the information contained in the statement is accurate.~~

006 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

~~Malfunction reporting shall be conducted as follows:~~

- ~~a. The Owner/Operator shall report each malfunction that occurs at this facility that poses an imminent and substantial danger to the public health and safety or the environment or which it should reasonably believe may result in citizen complaints to the Department. For purposes of this condition a malfunction is defined as any sudden, infrequent, and not~~

SECTION E. Source Group Plan Approval Restrictions.

Group Name: G01

Group Description:

Sources included in this group

ID	Name
031	BOILER NO.1 (UNIT 1)
032	BOILER NO.2 (UNIT 2)

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Emissions of SO₂ from Unit 1 & 2 shall not exceed the following:

- * 0.20 lb/MMBtu from each Unit on a 30-day rolling average (excluding periods of startup or shutdown); and
- * 5,950 tons from each Unit in a consecutive 12-month period beginning after 1 year of operation of each NID system.

Startup for Unit 1 & 2 is defined as beginning upon firing fuel in a boiler after a shutdown event for any purpose and ending when the flue gas temperature entering the NID system is above the minimum effective operating temperature. Startup duration may not exceed the time necessary to reach the minimum effective operating temperature of the NID system.

Shutdown for Unit 1 & 2 is defined as beginning when none of the steam from the boiler is used to generate electricity for sale over the grid or for any other purpose (including on-site use), or when no fuel is being fired in the boiler, and when the flue gas temperature entering the NID system drops below the minimum effective operating temperature. Shutdown ends when all three conditions are met.

002 ~~[25 Pa. Code §127.12b]~~

Plan approval terms and conditions.

~~Emissions of PM (filterable + condensable) from Unit 1 & 2 shall not exceed 0.10 lb/MMBtu from each Unit. Compliance with this condition shall be determined by stack testing for filterable PM in accordance with EPA Method 5 or 5B; and for condensable PM by stack testing in accordance with EPA Method 202 or other Department approved methods.~~

003 ~~[25 Pa. Code §127.12b]~~

Plan approval terms and conditions.

~~Emissions of filterable particulate matter from Unit 1 & 2 shall not exceed 0.050 lb/MMBtu from each Unit. Compliance with this condition shall be determined by stack testing for filterable particulate matter in accordance with EPA Method 5, 5B, or other Department approved methods.~~

II. TESTING REQUIREMENTS.

004 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

~~Performance testing shall be conducted as follows:~~

- ~~The Owner/Operator shall submit three copies of a pre-test protocol to the Department for review at least 60 days prior to the performance of any EPA reference method stack test. All proposed performance test methods shall be identified in the pre-test protocol and approved by the Department prior to testing.~~
- ~~The Owner/Operator shall notify the Regional Air Quality Manager at least 15 days prior to any performance test so that an observer may be present at the time of the test. Notification shall also be sent to the Division of Source Testing and Monitoring. Notification shall not be made without prior receipt of a protocol acceptance letter from the Department.~~
- ~~All relevant operating parameters as identified in the Department approved pre-test protocol (e.g. boiler steam flow, air flow, gross megawatts, and O₂; CEMS heat input and stack flue gas volumetric flow rate; and NID hydrated lime feed flow rate, pressure differential, and temperature) shall be recorded during the duration of the stack tests. Operating data recorded shall be sufficient to establish that the units and the air cleaning devices are operating at maximum routine operating conditions. A discussion of the recorded operating parameters and values shall be included in the test report.~~



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Plan Approval No. 32-000551

Federal Tax Id - Plant Code: 80-0833693-1

Owner Information

Name: HOMER CITY GENERATION LP
Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Plant Information

Plant: HOMER CITY GEN LP/ CENTER TWP
Location: 32 Indiana County 32912 Center Township
SIC Code: 4911 Trans. & Utilities - Electric Services

Operator

Name: NRG HOMER CITY SERVICES LLC [If different from owner]
Mailing Address: 1750 POWER PLANT RD
HOMER CITY, PA 15748-8009

Responsible Official

Name: ANTHONY GARAVENTA
Title: STATION GEN MGR
Phone: (724) 479 - 8233

Plan Approval Contact Person

Name: GARY CLINE
Title: ENVIRONMENTAL MANAGER
Phone: (724) 479 - 8255

[Signature] _____
MARK R. GOROG, P.E., ENVIRONMENTAL PROGRAM MANAGER, SOUTHWEST REGION

SECTION E. Source Group Plan Approval Restrictions.

Group Name: G02

Group Description: Main Boilers Unit 1, 2, & 3

Sources included in this group

ID	Name
031	BOILER NO.1 (UNIT 1)
032	BOILER NO.2 (UNIT 2)
033	BOILER NO.3 (UNIT 3)

I. RESTRICTIONS.

Emission Restriction(s).

001 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

When a NID system module is operating in transition, combined emissions of SO₂ from Units 1, 2 & 3 shall not exceed the alternative limit of 7,300 lbs/hr.

[This condition supersedes the combined 6,360 lbs/hr SO₂ limit of Section C Condition #001 of PA-32-00055H as revised December 16, 2013, and expiring April 16, 2016, as an alternative limit for up to 500 hours per 12-month rolling period combined with the Unit 1 & 2 startup alternative emission limits.]

002 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

When Unit 1 or Unit 2 is operating in startup, emissions of SO₂ shall not exceed the following alternative limits:

- 9,000 lbs/hr from the Unit (1 or 2) in startup;
- 1,913 lbs/hr from the Unit (1 or 2) not in startup; and
- 2,720 lbs/hr from Unit 3.

[This condition supersedes the combined 6,360 lbs/hr SO₂ limit of Section C Condition #001 of PA-32-00055H as revised December 16, 2013, and expiring April 16, 2016, as an alternative limit for up to 500 hours per 12-month rolling period combined with the NID system module transition alternative emission limit.]

Operation Hours Restriction(s).

003 [25 Pa. Code §127.12b]

Plan approval terms and conditions.

Startup and NID system module transitions with combined emission rates exceeding 6,360 lbs/hr may not exceed 500 hours in any 12-month rolling period.

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).~~

SECTION E. Source Group Plan Approval 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).~~

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

Startup and NID system module transition alternative SO₂ emission limits may only be applied to individual block hours occurring during a Unit 1 or Unit 2 startup or NID system module transition.