

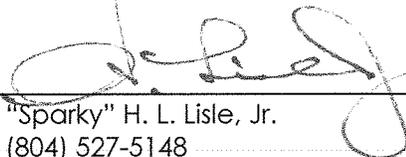
COMMONWEALTH OF VIRGINIA  
Department of Environmental Quality  
Piedmont Regional Office

STATEMENT OF LEGAL AND FACTUAL BASIS

Industrial Power Generating Company, LLC – Chester Plant  
Chesterfield County, Virginia  
Permit No. PRO-52037

Title V of the 1990 Clean Air Act Amendments required each state to develop a permit program to ensure that certain facilities have federal Air Pollution Operating Permits, called Title V Operating Permits. As required by 40 CFR Part 70 and 9 VAC 5 Chapter 80, Industrial Power Generating Company, LLC (INGENCO) Chester Plant has applied for a Title V Operating Permit for its Chesterfield County facility. The Department of Environmental Quality, Air Quality Division (DEQ) has reviewed the application and has prepared a draft Title V Operating Permit.

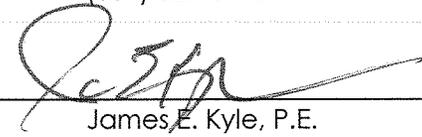
Engineer/Permit Contact:

  
"Sparky" H. L. Lisle, Jr.  
(804) 527-5148

Date:

9-26-2013

Air Permit Manager:

  
James E. Kyle, P.E.

Date:

9-26-2013

Deputy Regional Director:

  
Kyle Ivar Winter, P.E.

Date:

27 SEPT 2013

## **FACILITY INFORMATION**

### Permittee

Industrial Power Generating Company, LLC  
2250 Dabney Road  
Richmond, VA 23230

### Facility

Industrial Power Generating Company, LLC  
Chester Plant  
11800 Lewis Road  
Chesterfield County, VA

### Responsible Official

Mr. Charles J. Packard

### Contact Person

Mr. Robert L. Greene, PhD  
Environmental Compliance Manager  
Phone: (804) 521-3557  
Fax: (804) 521-3583  
Email: [rgreene@ingenco.com](mailto:rgreene@ingenco.com)

County-Plant Identification Number: 51-041-00487

## **SOURCE DESCRIPTION**

NAICS ID# 221119 – Other Electrical Power Generation, (SIC Code: 4931)

The INGENCO Chester Plant is a 16.8 MW power generation facility using 48 Detroit Diesel Series 60 diesel-electric generators arranged into 8 groups of 6 engines each. The INGENCO Chester Plant is located adjacent to the Shoosmith Brothers Landfill (Registration No. 50752), which supplies landfill gas to the INGENCO Chester Plant as one of the fuels for the 48 Detroit Diesel Series 60 diesel-electric generators. All landfill gas consumed by the engines must be processed through the landfill gas treatment system on the INGENCO Chester Plant site before usage. The landfill gas treatment system is composed of de-watering, filtration, and compression processes. The INGENCO Chester Plant is a Title V major source of Nitrogen Oxides (NO<sub>x</sub>) and Carbon Monoxide (CO) and is currently permitted to 240 Tons per Year (TPY) or less for each pollutant. The source is located in an attainment area for all pollutants, and is a PSD minor source. A Title V Operating Permit was initially issued on September 24, 2004 and the facility is currently permitted under a minor New Source Review (NSR) Permit amendment issued on July 30, 2012, which supersedes the previous minor NSR permit amendment issued April 28, 2011. The facility submitted a request dated July 1, 2013 (received on July 2, 2013) to modify the current Title V permit (September 29, 2011). This Title V modification involves incorporating the allowance of a maximum LFG usage up to an annual average of ≤ 98% as listed in the minor NSR permit amendment dated July 30, 2012. The Department deemed the Title V permit modification request administratively complete on July 2, 2013.

**COMPLIANCE STATUS**

A full compliance evaluation of this facility, including a site visit, has been conducted on October 3, 2011. In addition, all reports and other data required by permit conditions or regulations, which are submitted to DEQ, are evaluated for compliance. Based on these compliance evaluations, the Chester Plant has not been found to be in violation of any state or federal applicable requirements at this time.

**EMISSION UNIT AND CONTROL DEVICE IDENTIFICATION**

The emissions units at this facility consist of the following:

| Emission Unit ID | Stack ID        | Emission Unit Description   | Size/Rated Capacity*  | Pollution Control Device (PCD) Description   | PCD ID | Pollutant Controlled                                    | Applicable Permit Date |
|------------------|-----------------|---|---|--|--------|---|------------------------|
| A1-H6            | S-1 through S-8 | Forty-eight (48) Detroit Diesel Model 6063-TK35 dual-fuel diesel engines constructed in 2004, each driving a 350 kW generator; arranged in eight groups of six engines each. Each group has a separate exhaust stack, e.g. S1 serving group A1-A6, S2 serving group B1-B6, etc. | 550 HP and 3.57 MMBtu/hr heat input each, total for 48 engines, 171.36 MMBtu/hr heat input. | N/A<br>Passive controls: air-to-fuel ratio control, turbo-charging, custom built after coolers and charge-air cooling systems, engine control modules. | -      | NO <sub>x</sub> , CO, SO <sub>x</sub> , VOC, PM, PM-10. | July 30, 2012          |
| -                | -               | Landfill gas treatment and transport system components.   | 3,000 – 4,500 cfm   | N/A  | -      | -   | July 30, 2012          |
| B-1              | B-1             | Burnham Boiler for space heating  | 0.195 mmBTU/hr  | N/A  | -      | NO <sub>x</sub> , SO <sub>2</sub> , CO, VOC, PM/PM-10   | (Exempt)<br>10/09/2007 |

\*The Size/Rated capacity and PCD efficiency are provided for informational purposes only, and are not applicable requirements.

**EMISSIONS INVENTORY**

A copy of the 2012 annual emission update is attached. Emissions are summarized in the following table:

| <i>2012 PLANTWIDE EMISSIONS SUMMARY [TONS PER YEAR]</i> |                              |
|---|------------------------------|
| <b>CRITERIA POLLUTANTS</b>                              | <b>2012 ACTUAL EMISSIONS</b> |
| Particulate Matter (PM <sub>10</sub> )                  | 9.985                        |
| Particulate Matter (PM <sub>2.5</sub> )                 | 9.985                        |
| Nitrogen Oxides (NO <sub>x</sub> )                      | 80.164                       |
| Sulfur Dioxide (SO <sub>2</sub> )                       | 34.945                       |
| Carbon Monoxide (CO)                                    | 91.319                       |
| VOC   | 14.264                       |

**EMISSION UNIT APPLICABLE REQUIREMENTS - [A1-H6]**

The permit conditions are taken from the following: a minor NSR permit amendment dated July 30, 2012, superseding the April 11, 2011 modified minor NSR permit; 40 CFR Part 63 MACT Subpart ZZZZ, Standards of Performance for Reciprocating Internal Combustion Engines; 40 CFR 63 MACT JJJJJ National Emission Standards for Area Sources; 40 CFR 60 NSPS Subpart WWW, Standards of Performance for Municipal Solid Waste Landfills and 9 VAC 5-80-50 et seq., Part II-Article 1 Federal Operating Permits for Stationary Sources. The facility is subject to 9 VAC 5 Chapter 50-Part II-Article 1 New and Modified Stationary Sources Standards of Performance for Visible Emissions and Fugitive Dust/Emissions (Rule 5-1). Virginia has not currently accepted delegation to enforce the RICE MACT. This Title V significant amendment modification involves incorporating the allowance of a maximum LFG usage up to an annual average of ≤ 98% as listed in the minor NSR permit amendment dated July 30, 2012 to Title V Conditions III.A.3, III.A.11, III.C.4, III.D.2, III.D.3, III.D.6 and III.E.5.

Note on EPA MACT JJJJJ Final Rule actions: "On March 13, 2012, the EPA issued a No Action Assurance (NAA) to all owners and/or operators of existing industrial boilers and commercial and institutional boilers at area sources of HAP emissions stating that we would not enforce the requirement to conduct an initial tune-up by March 21, 2012. The NAA was primarily based upon the EPA's concern that sources were reporting a shortage of qualified individuals to prepare boilers for tuneups and then conduct those tune-ups by the regulatory deadline, as well as upon the uncertainty in the regulated community resulting from the pending reconsideration of the Area Source Boiler Rule. The March 13, 2012, NAA states that it remains in effect until either (1) 11:59 p.m. EDT, October 1, 2012, or (2) the effective date of a final rule addressing the proposed reconsideration of the Area Source Boiler Rule, whichever occurs earlier.

(Note on EPA MACT JJJJJJ Final Rule actions Continued:) As the July 19, 2012, Notification of Compliance Status deadline approached, a final rule addressing the proposed reconsideration of the Area Source Boiler Rule had not been issued, and thus the NAA continued to remain in effect. Nothing that the EPA learned since the issuance of the original NAA letter led us to question our original concerns about the feasibility of all sources timely completing an initial tune-up. Further, sources that did not complete a tune-up could not certify that they conducted one. Thus, on July 18, 2012, the EPA extended the NAA for sources required to complete an initial tune-up by March 21, 2012, to also include the deadline for submitting the Notification of Compliance Status regarding the initial tune-up. In addition, given that no final rule addressing the proposed reconsideration of the Area Source Boiler Rule had been issued as of July 18, 2012, the pending reconsideration continued to create uncertainty in the regulated community. Thus, the NAA letter also amended the expiration date of the March 13, 2012, NAA, such that the NAA would remain in effect until either (1) 11:59 p.m. EST, December 31, 2012, or (2) the effective date of a final rule addressing the proposed reconsideration of the Area Source Boiler Rule, whichever occurs earlier. This final rule revises the compliance date for existing affected boilers subject to a tune-up from March 21, 2012, to March 21, 2014. The July 19, 2012, deadline for submitting the Notification of Compliance Status regarding the initial tune-up is reset to July 19, 2014, as a result of revising the compliance date for existing affected boilers subject to a tune-up to March 21, 2014. Owners or operators that had not yet conducted their boiler tune-up, but submitted a Notification of Compliance Status by July 19, 2012, simply to notify the EPA that the tune-up had not been completed, will need to submit a revised Notification of Compliance Status after their boiler tune-up is conducted."

### Limitations

1. Emissions of NO<sub>x</sub> from the engines are limited in Conditions III.A.1, III.A.2, and III.A.3 by using passive controls inherent to the design of the engines and standard operating practices, rather than add-on pollution control devices; from Conditions 2, 3, and 4 of the minor NSR permit dated July 30, 2012.
2. Carbon Monoxide emissions from the engines are limited in Condition III.A.4 by using standard operating practices regulated by devices inherent to the design of the engines; from Condition 5 of the minor NSR permit dated July 30, 2012.
3. Uncontrolled releases of treated landfill gas from either, the 48 dual-fuel diesel engines, the landfill gas treatment system, or the treated landfill gas transport system are prohibited in Condition III.A.5; from Condition 6 of the minor NSR permit dated July 30, 2012.
4. Particulate Matter and Volatile Organic Compounds emissions from the 48 dual-fuel diesel engines are limited in Condition III.A.6 by using good operation and maintenance practices; from Condition 7 of the minor NSR permit dated July 30, 2012.

5. Condition III.A.7 requires proper operation of the 48 dual-fuel diesel engines, treated landfill gas transport system, and the landfill gas treatment system (as specified in Permit Condition III.A.13) whenever the facility is operating the engines in a dual fuel mode; from Condition 8 of the minor NSR permit dated July 30, 2012.
6. The heat value of the treated LFG fuel is required to be calculated on a weekly basis by Condition III.A.8. Condition III.A.8 requires logs of the calculated LFG fuel heat values to be kept the device to measure methane concentration in the treated LFG fuel to be kept at a minimum; properly maintained, calibrated and operated in accordance with the manufacturer's requirements; from Condition 15 of the minor NSR permit dated July 30, 2012.
7. Proper operation of the landfill gas treatment system is required whenever LFG fuel is being transferred to any of the engines by Permit Condition III.A.9; from Condition 16 of the minor NSR permit dated July 30, 2012.
8. Condition III.A.10 lists the approved fuels for the engines; from Condition 17 of the minor NSR permit dated July 30, 2012.
9. The formula and associated variables for calculating the NO<sub>x</sub> and CO emissions based on the type of, ratio of liquid fuel to LFG fuel, and quantity of fuels used, to prevent either criteria pollutant from exceeding the permit limits of 240 tpy or PSD thresholds is defined in Condition III.A.11; from Condition 18 of the minor NSR permit dated July 30, 2012.
10. The fuel specifications to be used in the engines are defined in Condition III.A.12; from Condition 19 of the minor NSR permit dated July 30, 2012.
11. The source of LFG fuel for the facility and the minimum treatment specifications for the LFG fuel are defined in Condition III.A.13; from Condition 20 of the minor NSR permit dated July 30, 2012.
12. Emissions of criteria pollutants from each engine on a pound of pollutant per million BTU basis are limited by Condition III.A.14. Compliance with the established limits will be determined by stack testing of the engines; from Condition 22 of the minor NSR permit dated July 30, 2012.
13. Hourly and annual emissions from the Chester Plant, whether operated in single or dual fuel mode, are limited by Condition IV.A; from Condition 23 of the minor NSR permit dated July 30, 2012. Compliance with these limits may be determined as stated in Condition numbers III.A.1 through III.A.7, III.A.10, III.A.11, III.A.12 and III.A.13.
14. Operating and maintenance procedures for each engine as stated in 40 CFR 63 Subpart ZZZZ Table 2d(11) are required by Condition III.A.15 and 10 % or more LFG use by Condition III.A.17 (added).

15. Visible emissions from the engines' stacks are limited to 10% opacity when operated in single fuel mode and 20% opacity when operated in dual fuel mode by Condition III.A.16; from Condition 24 of the minor NSR permit dated July 30, 2012.
16. Area Source Existing Boiler operating procedures as stated in 40 CFR 63, Subpart JJJJJJ are required by Condition III.A.18 for emissions unit ID #: B-1. Maximum Achievable Control Technology (MACT); MACT JJJJJJ – National Emission Standard for Hazardous Air Pollutants for Area Sources; Industrial, Commercial, and Institutional Boilers and Process Heaters: The boiler (B-1) meets the applicability which includes being located at an area source of HAPs. The boiler (B-1) meets the applicability and applicable requirements includes § 63.11214 (b) which requires that "If you own or operate an existing or new biomass-fired boiler or an existing or new oil-fired boiler, you must conduct a performance tune-up according to § 63.11223(b) and you must submit a signed statement in the Notification of Compliance Status report that indicates that you conducted a tune-up of the boiler by **Condition III.A.18**. The [revised] compliance date for existing sources is March 21, 2014."

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#### **Compliance Assurance Monitoring (CAM)**

Generally, the requirements of 40 CFR 64, CAM, apply to each emissions unit meeting all three of the following criteria on a pollutant-by-pollutant basis:

- The unit emits or has the potential to emit (in the absence of add-on control devices) quantities of one or more regulated air pollutants that exceed major source thresholds,
- The unit is subject to one or more emission limitations for the regulated air pollutants for which it is major before control, and
- The unit uses a control device to achieve compliance with one or more of these emission limitations.

The INGENCO Chester Plant does not meet the third of these requirements as the 48 dual-fuel diesel engines do not have add-on control devices and rely instead on passive controls inherent to the design of the generators.

#### **Periodic Monitoring and Recordkeeping**

The EPA periodic monitoring guidance, dated September 18, 1998, states periodic monitoring is required for each emission point at a source, subject to Title V of the Act, which is subject to an applicable requirement. The INGENCO Chester Plant emission units are applicable to MACT Subpart ZZZZ, for the 48 dual-fuel diesel generators, NSPS Subpart WWW, for the landfill gas treatment and transport system, MACT Subpart JJJJJJ for boiler (B-1) and the associated monitoring and recordkeeping requirements from these standards.

Periodic monitoring for the INGENCO Chester Plant emission units has been determined to consist of obtaining fuel supplier certifications, records to demonstrate compliance with good operating practices, and adhering to a maintenance schedule, all of which are described in State Regulations. Performance testing required under MACT Subpart ZZZZ is also part of the periodic monitoring for the INGENCO Chester Plant. Details of the specific permit conditions are listed in the Testing section.

1. Condition III.B.1 requires the continuous measurement and recording of the quantity of each type of allowable fuel consumed by each engine and the proper installation, maintenance, calibration and operation of each monitoring device; from Condition 9 of the minor NSR permit dated July 30, 2012.
2. Condition III.B.2 requires the continuous measurement of the inlet charge-air temperature for each engine and the proper installation, maintenance, calibration and operation of each monitoring device; from Condition 10 of the minor NSR permit dated July 30, 2012.
3. Condition III.B.3 requires continuous measurement of the pressure within the LFG transport system and the proper installation, maintenance, calibration and operation of each monitoring device; from Condition 11 of the minor NSR permit dated July 30, 2012.
4. Continuous monitoring and recording of the LFG fraction and inlet charge-air temperature each engine as well as hourly written logs of each value in the event of a computer malfunction/ failure are required by Condition III.B.4; from Condition 12 of the minor NSR permit dated July 30, 2012.
5. Hourly observation of devices used to measure the inlet charge-air temperature for each engine while in operation and a daily log of these observations are required by Condition III.B.5; from Condition 13 of the minor NSR permit dated July 30, 2012.
6. Daily observation of the devices used to measure the pressure of the treated landfill gas transport system whenever LFG fuel is used in the dual-fuel diesel engines and a daily log of these observations are required by Condition III.B.6; from Condition 14 of the minor NSR permit dated July 30, 2012.
7. Daily determination and recording of the water remaining after draining each treated LFG polishing tank is required by Condition III.B.7, at least once each day LFG fuel is combusted in the dual-fuel diesel engines; from Condition 31 of the minor NSR permit dated July 30, 2012.
8. Condition III.B.8 describes how the opacity limits for the engines will be monitored by having a monthly opacity observation schedule providing a reasonable assurance of compliance with the applicable opacity limits; from Condition 34 of the minor NSR permit dated July 30, 2012.

9. Condition III.C.1 requires fuel certifications from suppliers of distillate and number 4 fuel oils; from Condition 21 of the minor NSR permit dated July 30, 2012.
10. Condition III.C.2 includes the requirements for maintaining records of all emissions monitoring and operating parameters and testing required by the permit; from Condition 26 of the minor NSR permit dated July 30, 2012.
11. Condition III.C.3 incorporates by reference the recordkeeping requirements in MACT ZZZZ.
12. Condition III.C.4 incorporates by reference the recordkeeping requirements in MACT JJJJJ.

### Testing

1. Condition III.D.1 requires performance tests to demonstrate compliance with NO<sub>x</sub> and CO emission limits after commencement of using distillate oil in the engines; from Condition 26 of the minor NSR permit dated July 30, 2012.
2. Condition III.D.2 requires performance tests to demonstrate compliance with NO<sub>x</sub>, CO, SO<sub>x</sub>, VOC and PM-10 emissions limits after commencement of the engines operating in dual fuel mode (revised to ≤98 % LFG); from Condition 27 of the minor NSR permit dated July 30, 2012.
3. Condition III.D.3 requires performance tests to demonstrate compliance with nitrogen oxides and carbon monoxide emissions limits after commencement of using number 4 fuel oil and/or bio-diesel in the engines while operating in single fuel mode using 100% number 4 fuel oil and/or bio-diesel and after commencement of the engines operating in dual fuel mode using various quantities of landfill gas (revised to ≤98 % LFG) and number 4 fuel oil and/or bio-diesel; from Condition 28 of the minor NSR permit dated July 30, 2012.
4. Condition III.D.4 requires the determination of the moisture content of the LFG to be performed concurrent with the performance tests being conducted in Conditions III.D.1 through III.D.3; from Condition 29 of the minor NSR.
5. Condition III.D.5 requires VEEs to be performed concurrent with the performance tests being conducted in Conditions III.D.1 through III.D.3; from Condition 30 of the minor NSR permit dated July 30, 2012.
6. Condition III.D.6 requires each set of six engines to be performance tested in continual rotation so that every set is tested every Title V Permit term (revised to ≤98 % LFG); from Condition 32 of the minor NSR Permit dated July 30, 2012.
7. Condition III.D.7 requires the operator to provide testing and monitoring ports and use appropriate test method(s) in accordance with procedures approved by the Department; from Condition 33 of the minor NSR Permit dated July 30, 2012.

## Reporting

1. Condition III.E.1 requires written notification of the anticipated and actual dates of any modification or change to any of the engine control modules and subsequent start up dates for the modified engines; from Condition 35 of the minor NSR permit dated July 30, 2012.
2. Notification for any removal of the engine's passive control equipment is required by Condition III.E.2; from Condition 36 of the minor NSR permit dated July 30, 2012.
3. Condition III.E.3 incorporates by reference submission of the notifications in 40 CFR §§63.7 (b) and (c), 63.8 (e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h).
4. Condition III.E.4 incorporates by reference the annual reporting requirements in 40 CFR 63 Subpart ZZZZ Table 7(2).
5. Condition III.E.5 incorporates by reference the reporting requirements in 40 CFR 63 Subpart JJJJJJ.

## FACILITY WIDE CONDITIONS

The facility has minor NSR facility wide emission limits to keep it from being PSD applicable for NOx and CO. The requirements listed in the Title V permit for the individual units are valid for facility wide emissions and do not need to be repeated in this section. Only the emissions limits need to be listed.

## Streamlined Requirements

Conditions 37-45 of the minor NSR permit, dated July 30, 2012, have been streamlined out as they duplicate the general conditions of the Title V permit for the facility.

## GENERAL CONDITIONS

The permit contains general conditions required by 40 CFR Part 70 and 9 VAC 5-80-110 that apply to all Federal-operating permitted sources. These include requirements for submitting semi-annual monitoring reports and an annual compliance certification report. The permit also requires notification of deviations from permit requirements or any excess emissions.

## Comments on General Conditions

### B. Permit Expiration

This condition refers to the Board taking action on a permit application. The Board is the State Air Pollution Control Board. The authority to take action on permit application(s) has been delegated to the Regions as allowed by §2.2-604 and §10.1-1185 of the *Code of Virginia*, and the "Department of Environmental Quality Agency Policy Statement No. 2-09".

This general condition cite(s) the Article(s) that follow(s):  
Article 1 (9 VAC 5-80-50 et seq.), Part II of 9 VAC 5 Chapter 80.  
Federal Operating Permits for Stationary Sources

This general condition cites the sections that follow:

9 VAC 5-80-80. Application

9 VAC 5-80-140. Permit Shield

9 VAC 5-80-150. Action on Permit Applications

**F. Failure/Malfunction Reporting**

Section 9 VAC 5-20-180 requires notification of malfunction and excess emissions within four hours of discovery. Section 9 VAC 5-80-250 of the Title V regulations also requires malfunction reporting; however, reporting is required within two days. Section 9 VAC 5-20-180 is from the general regulations. All affected facilities are subject to section 9 VAC 5-20-180 including Title V facilities. Section 9 VAC 5-80-250 is from the Title V regulations. Title V facilities are subject to both sections. A facility may make a single report that meets the requirements of 9 VAC 5-20-180 and 9 VAC 5-80-250. The report must be made within four daytime business hours of discovery of the malfunction.

**J. Permit Modification**

This general condition cites the sections that follow:

9 VAC 5-80-50. Applicability, Federal Operating Permit For Stationary Sources

9 VAC 5-80-190. Changes to Permits.

9 VAC 5-80-260. Enforcement.

9 VAC 5-80-1100. Applicability, Permits for New and Modified Stationary Sources

9 VAC 5-80-1790. Applicability, Permits for Major Stationary Sources and Modifications Located in Prevention of Significant Deterioration Areas

9 VAC 5-80-2000. Applicability, Permits for Major Stationary Sources and Major Modifications Locating in Nonattainment Areas

#### **U. Malfunction as an Affirmative Defense**

The regulations contain two reporting requirements for malfunctions that coincide. The reporting requirements are listed in sections 9 VAC 5-80-250 and 9 VAC 5-20-180. The malfunction requirements are listed in General Condition U and General Condition F. For further explanation see the comments on general condition F.

This general condition cites the sections that follow:

9 VAC 5-20-180. Facility and Control Equipment Maintenance or Malfunction

9 VAC 5-80-110. Permit Content

#### **Y. Asbestos Requirements**

The Virginia Department of Labor and Industry under Section 40.1-51.20 of the Code of Virginia also holds authority to enforce 40 CFR 61 Subpart M, National Emission Standards for Asbestos.

This general condition contains a citation from the Code of Federal Regulations that follow: 40 CFR 61.145, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to demolition and renovation.

40 CFR 61.148, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to insulating materials.

40 CFR 61.150, NESHAP Subpart M. National Emissions Standards for Asbestos as it applies to waste disposal.

This general condition cites the regulatory sections that follow:

9 VAC 5-60-70. Designated Emissions Standards

9 VAC 5-80-110. Permit Content

#### **STATE ONLY APPLICABLE REQUIREMENTS**

The following Virginia Administrative Codes have specific requirements only enforceable by the State and have been identified as applicable by the applicant:

9 VAC 5-50-310, Odorous Emissions

#### **INAPPLICABLE REQUIREMENTS**

The Existing Source Rule 4-8, NSPS Subpart IIII, Compliance Assurance Monitoring, Title V Greenhouse Gas Tailoring Rule, Phase 1 and NSPS Subpart Kb do not apply to the facility. In addition, certain portions of NSPS Subpart WWW, MACT Subpart AAAA, and MACT Subpart A do not apply. An explanation for the determination is provided in the following:

Existing Source Rule 4-8 does not apply (9 VAC 5-40-880)

*"E. The provisions of this article do not apply to stationary internal combustion engines."*

NSPS Subpart IIII does not apply until the diesel engines are modified in accordance with 40 CFR 60, NSPS Subpart IIII. The engine configuration and controls were last set by the minor NSR permit dated July 30, 2012.

*"Subpart IIII—Standards of Performance for Stationary Compression Ignition Internal Combustion Engines*

*What This Subpart Covers § 60.4200 Am I subject to this subpart?*

*(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary compression ignition (CI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (3) of this section.*

*For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.*

*(1) Manufacturers of stationary CI ICE with a displacement of less than 30 liters per cylinder where the model year is:*

*(i) 2007 or later, for engines that are not fire pump engines,*

*(ii) The model year listed in table 3 to this subpart or later model year, for fire pump engines.*

*(2) Owners and operators of stationary CI ICE that commence construction after July 11, 2005 where the stationary CI ICE are:*

*(i) Manufactured after April 1, 2006 and are not fire pump engines, or*

*(ii) Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006. "*

*"(3) Owners and operators of stationary CI ICE that modify or reconstruct their stationary CI ICE after July 11, 2005."*

Compliance Assurance Monitoring, 40 CFR Part 64, does not apply to the facility as the CI RICE do not have add-on pollution control devices.

Title V Greenhouse Gas Tailoring Rule, Phase 1, 40 CFR Parts 51,52,70 and 71, does not apply to the facility as it is an existing source not currently subject to PSD for any pollutant. There are no applicable GHG permitting requirements.

NSPS Subpart Kb does not apply based on the size of the tanks, largest being 32,000 gallons, and from recordkeeping requirements as revised on October 13, 2003.

NSPS Subpart WWW requirements pertaining to the collection and destruction of the landfill gas are inapplicable to the INGENCO Chester Plant as long as the INGENCO Chester Plant's treatment of the landfill gas meets the requirements listed in 40 CFR, Part 60.752(b)(2)(iii)(C).

NSPS Subpart AAAA requirements pertaining to the collection and destruction of the landfill gas are inapplicable to the INGENCO Chester Plant as long as the INGENCO Chester Plant's treatment of the landfill gas meets the requirements listed in 40 CFR, Part 60.752(b)(2)(iii)(C). Certain MACT Subpart A requirements do not apply to the Chester Plant. The inapplicable sections are 40 CFR Part 63.6(d), 63.6(e), 63.6(h), 63.7(e)(1), 63.8(a)(4), 63.8(c)(5), 63.9(d), 63.10(b)(2)(i)-(v), 63.10(d)(3), 63.1(e)(2)(ii), 63.10(e)(4), and 63.11.

The startup, shut down, and malfunction opacity exclusion listed in 9 VAC 5-40-20 A.4 cannot be included in any Title V permit. This portion of the regulation is not part of the federally approved state implementation plan. The opacity standard applies to existing sources at all times including startup, shutdown, and malfunction. Opacity exceedances during malfunction can be affirmatively defended provided all requirements of the affirmative defense section of this permit are met. Opacity exceedances during startup and shut down will be reviewed with enforcement discretion using the requirements of 9 VAC 5-40-20 E, which state that "At all times, including periods of startup, shutdown, soot blowing and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions."

**COMPLIANCE PLAN**

There is no compliance plan for the permit.

**INSIGNIFICANT EMISSION UNITS**

The insignificant emission units are presumed to be in compliance with all requirements of the Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

Insignificant emission units include the following:

| Emission Unit No. | Emission Unit Description | Citation    | Pollutant(s) Emitted (5-80-720 B) | Rated Capacity (5-80-720 C) |
|-------------------|---------------------------|-------------|-----------------------------------|-----------------------------|
| T1                | Fuel oil storage tank     | 5-80-720 B. | VOC                               | 32,000 Gallon               |
| T2                | Fuel oil storage tank     | 5-80-720 B. | VOC                               | 32,000 Gallon               |
| T3                | Fuel oil storage tank     | 5-80-720 B. | VOC                               | 32,000 Gallon               |
| T4                | Fuel oil storage tank     | 5-80-720 B. | VOC                               | 32,000 Gallon               |

|      |  |             |           |                |
|------|--|-------------|-----------|----------------|
| T5   | Lubricating oil storage tank                     | 5-80-720 B. | VOC       | 1,000 Gallon   |
| T6   | Lubricating oil storage tank                     | 5-80-720 B. | VOC       | 1,000 Gallon   |
| RV-1 | Rosemont methane measurement instrument LFG vent | 5-80-720 B. | NMOC, VOC | 0.5 liters/min |

The citation criteria for insignificant activities are as follows:

9 VAC 5-80-720 A - Listed Insignificant Activity, Not Included in Permit Application

9 VAC 5-80-720 B - Insignificant due to emission levels

9 VAC 5-80-720 C - Insignificant due to size or production rate

#### **CONFIDENTIAL INFORMATION**

The permittee did not submit a request for confidentiality. All portions of the Title V application are suitable for public review.

#### **PUBLIC PARTICIPATION**

The proposed permit was placed in public notice in the The Style Weekly from August 14, 2013 to September 14, 2013. A public comment period was held starting on August 14, 2013 with no comments received. The required comment period, provided by 9 VAC 5-80-270 D expired on September 14, 2013. US EPA did not comment during the concurrent comment period.