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DEPARTMENT OF ENVIRONMENTAL QUALITY
STATE A.Q. PROGRAM

FORTISTAR Methane Group

Hidden Hollow Energy 2, LLC.
10300 Seamans Gulch Road ♦ Boise, Idaho 83702
Tel. (716) 439-1004 ♦ Fax (716) 439-1000

November 6, 2010

Mr. William Rogers
Air Quality Program Office – Application Processing
Dept of Environmental Quality
1410 N. Hilton
Boise, ID 83706-1255

Subject: Hidden Hollow Energy, LLC. & Hidden Hollow Energy 2, LLC.
Request for Permit Split
Landfill Gas to Energy Facility – Hidden Hollow Landfill

Dear Mr. Rogers:

On July 15, 2010 Hidden Hollow Energy, LLC. submitted an application for a Permit to Construct and a Title V Permit as a result of a proposed facility expansion which consisted of the addition of two identical landfill gas fired engines to the existing Hidden Hollow Energy facility. Subsequent to agency review, the IDEQ issued a Draft Permit which included conditions pertaining to rules which were applicable to the proposed engines. This Draft Permit is attached for your reference.

As the planning of the proposed expansion project progressed it was determined that in order to effectively secure financing to proceed with the project, it would be necessary to create a new and independent company, rather than simply expand the existing company. Therefore, we are requesting that the IDEQ issue an independent Permit to Hidden Hollow Energy 2, LLC. which will consist of only the two (2) new Caterpillar 3520 engines. This essentially will result in the Hidden Hollow Energy, LLC. facility permit remaining unchanged from its original form prior to the submittal of the expansion application. The original Hidden Hollow Energy, LLC. permit is attached.

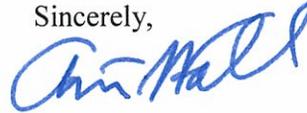
As you have requested, we have included the following documents processing this request:

1. Form GI (for Hidden Hollow Energy, LLC.)
2. Form GI (for Hidden Hollow Energy 2, LLC.)
3. Certificate of Formation for Hidden Hollow Energy 2, LLC.
4. Addressed Comments Document
5. Draft Permit issued by IDEQ for Expansion
6. Original Hidden Hollow Energy, LLC. Permit

Idaho DEQ
November 6, 2010
Page 2

Please direct all questions regarding this submittal to Suparna Chakladar at (951)
833-4153.

Sincerely,



Anthony J. Falbo
Vice President and General Manager
FORTISTAR Methane Group
Hidden Hollow Energy 2, LLC.

Attachments

cc: Suparna Chakladar, FMG

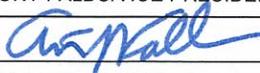


DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

General Information **Form GI**
 Revision 6
 09/09/08

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION	
1. Company Name	HIDDEN HOLLOW ENERGY LLC
2. Facility Name (if different than #1)	
3. Facility ID No.	001-00214
4. Brief Project Description:	LANDFILL GAS TO ENERGY FACILITY W/ TWO LFG FIRED ENGINES
FACILITY INFORMATION	
5. Owned/operated by: (√ if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	SUPARNA CHAKLADAR
7. Telephone Number and Email Address	(951) 833-4153 schakladar@fortistar.com
8. Alternate Facility Contact Person/Title	ANTHONY FALBO
9. Telephone Number and Email Address	(716) 439-1004 afalbo@fortistar.com
10. Address to which permit should be sent	5087 JUNCTION ROAD
11. City/State/Zip	LOCKPORT, NY 14075
12. Equipment Location Address (if different than #10)	10300 SEAMANS GULCH ROAD
13. City/State/Zip	BOISE, ID 83702
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAICS Code	Primary SIC: 4911 Secondary SIC (if any): NAICS: 22111
16. Brief Business Description and Principal Product	LANDFILL GAS TO ENERGY FACILITY. ELECTRICITY
17. Identify any adjacent or contiguous facility that this company owns and/or operates	N/A
PERMIT APPLICATION TYPE	
18. Specify Reason for Application	<input checked="" type="checkbox"/> Permit to Construct <input checked="" type="checkbox"/> Tier I Permit <input type="checkbox"/> Tier II Permit <input type="checkbox"/> Tier II/Permit to Construct
CERTIFICATION	
IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.	
19. Responsible Official's Name/Title	ANTHONY FALBO/VICE PRESIDENT AND GENERAL MANAGER
20. RESPONSIBLE OFFICIAL SIGNATURE	 Date: 11-5-10
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.	



DEQ AIR QUALITY PROGRAM
 1410 N. Hilton, Boise, ID 83706
 For assistance, call the
Air Permit Hotline – 1-877-5PERMIT

General Information **Form GI**
 Revision 6
 09/09/08

Please see instructions on page 2 before filling out the form.

All information is required. If information is missing, the application will not be processed.

IDENTIFICATION	
1. Company Name	HIDDEN HOLLOW ENERGY 2, LLC.
2. Facility Name (if different than #1)	
3. Facility ID No.	New Facility
4. Brief Project Description:	LANDFILL GAS TO ENERGY FACILITY W/ TWO LFG FIRED ENGINES
FACILITY INFORMATION	
5. Owned/operated by: (√ if applicable)	<input type="checkbox"/> Federal government <input type="checkbox"/> County government <input type="checkbox"/> State government <input type="checkbox"/> City government
6. Primary Facility Permit Contact Person/Title	SUPARNA CHAKLADAR
7. Telephone Number and Email Address	(951) 833-4153 schakladar@fortistar.com
8. Alternate Facility Contact Person/Title	ANTHONY FALBO
9. Telephone Number and Email Address	(716) 439-1004 afalbo@fortistar.com
10. Address to which permit should be sent	5087 JUNCTION ROAD
11. City/State/Zip	LOCKPORT, NY 14075
12. Equipment Location Address (if different than #10)	10300 SEAMANS GULCH ROAD
13. City/State/Zip	BOISE, ID 83702
14. Is the Equipment Portable?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
15. SIC Code(s) and NAICS Code	Primary SIC: 4911 Secondary SIC (if any): NAICS: 22111
16. Brief Business Description and Principal Product	LANDFILL GAS TO ENERGY FACILITY. ELECTRICITY
17. Identify any adjacent or contiguous facility that this company owns and/or operates	N/A
PERMIT APPLICATION TYPE	
18. Specify Reason for Application	<input checked="" type="checkbox"/> Permit to Construct <input checked="" type="checkbox"/> Tier I Permit <input type="checkbox"/> Tier II Permit <input type="checkbox"/> Tier II/Permit to Construct
CERTIFICATION	
IN ACCORDANCE WITH IDAPA 58.01.01.123 (RULES FOR THE CONTROL OF AIR POLLUTION IN IDAHO), I CERTIFY BASED ON INFORMATION AND BELIEF FORMED AFTER REASONABLE INQUIRY, THE STATEMENTS AND INFORMATION IN THE DOCUMENT ARE TRUE, ACCURATE, AND COMPLETE.	
19. Responsible Official's Name/Title	ANTHONY FALBO VICE PRESIDENT AND GENERAL MANAGER
20. RESPONSIBLE OFFICIAL SIGNATURE	 Date: 11-8-10
21. <input checked="" type="checkbox"/> Check here to indicate you would like to review a draft permit prior to final issuance.	

Delaware

PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "HIDDEN HOLLOW ENERGY 2 LLC", FILED IN THIS OFFICE ON THE SIXTH DAY OF OCTOBER, A.D. 2010, AT 10:10 O'CLOCK A.M.



4880882 8100

100971769

You may verify this certificate online
at corp.delaware.gov/authver.shtml


Jeffrey W. Bullock, Secretary of State
AUTHENTICATION: 8274321

DATE: 10-07-10

State of Delaware
Secretary of State
Division of Corporations
Delivered 10:13 AM 10/06/2010
FILED 10:10 AM 10/06/2010
SRV 100971769 - 4880882 FILE

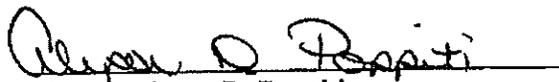
CERTIFICATE OF FORMATION
OF
HIDDEN HOLLOW ENERGY 2 LLC

This Certificate of Formation is being executed as of October 6, 2010 for the purpose of forming a limited liability company pursuant to the Delaware Limited Liability Company Act, 6 Del. C. §§ 18-101 et seq.

The undersigned, being duly authorized to execute and file this Certificate of Formation, does hereby certify as follows:

1. Name. The name of the limited liability company is Hidden Hollow Energy 2 LLC (the "Company").
2. Registered Office and Registered Agent. The Company's registered office in the State of Delaware is located at 200 Becker Avenue, Woodcrest, Wilmington, New Castle County, Delaware 19804. The registered agent of the Company for service of process at such address is Robert F. Dunbar.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Formation as of the day and year first above written.


Name: Alyson D. Poppiti
Authorized Person

Main document changes and comments

Page 1: Comment [A1] **Author** **1/19/2010 10:34:00 AM**
Kathy; I would like to submit this within 60 days of start of construction for the modified plant. We are still a while away from beginning construction. *Permit condition 12: DEQ replaced "within 60 days of permit issuance" with "within 60 days of engine startup"*

Page 1: Comment [A2] **Author** **1/19/2010 10:36:00 AM**
We would like to change as "...conduct the performance test upon startup of engine and achieving typical operating conditions." *Permit condition 22(b): DEQ deleted "However, you must conduct the performance test immediately upon startup of the engine." Details of the performance test procedures will be addressed in the protocol.*

Page 1: Comment [A3] **Author** **1/19/2010 10:38:00 AM**
The SSM plan needs to include the treatment system only. Please clarify. Since the engines handle treated gas, no SSM compliance is required for them. *DEQ added the term "landfill gas treatment system" in all permit conditions in this section for Landfill Gas Treatment.*

Page 1: Comment [A4] **Author** **1/19/2010 10:38:00 AM**
Also applies to the Treatment System only. *See above.*

Page 1: Change **Author**
Formatted Bullets and Numbering

Page 1: Change **Author**

Air Quality PERMIT TO CONSTRUCT State of Idaho Department of Environmental Quality	PERMIT NUMBER	CLASS	SIC
	P-2009.0098	SM80	4911
	FACILITY ID	AQCR	NAICS
	001-00214	64	22111
	ZONE	UTM COORDINATES (km)	
	11	557.5	4838.6
PERMITTEE			
Hidden Hollow Energy LLC			
PROJECT			
Permit to Construct Revision			
MAILING ADDRESS	CITY	STATE	ZIP
3005 Douglas Blvd, Suite 105	Roseville	CA	95661
FACILITY CONTACT	TITLE	TELEPHONE	
Suparna Chakladar	Technical Director -- Environmental Services	(951) 833-4153	
RESPONSIBLE OFFICIAL	TITLE	TELEPHONE	
Anthony Falbo	Vice President and General Manager	(716) 439-1004	
EXACT PLANT LOCATION		COUNTY	
10300 Seamans Gulch Road		Ada	
GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS			
Landfill gas to energy facility, electricity			
PERMIT AUTHORITY			
<p>This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.</p> <p>This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.</p> <p>This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.</p> <p>This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.</p>			
	DATE ISSUED	DRAFT	
KATHLEEN HIEB, PERMIT WRITER			
MIKE SIMON, STATIONARY SOURCE MANAGER			

Purpose

1. This is a revised permit to construct to install and operate two additional landfill gas burning generators at the existing site at the Ada County Landfill and to remove limits which allowed the facility to operate below Title V threshold for CO.
2. Those permit conditions that have been modified or revised by this permitting action are identified by a date citation located directly under the permit condition and on the right hand margin.
3. This PTC replaces Permit to Construct No. P-2008.0190, issued on December 29, 2008.
4. The emission sources regulated by this permit are listed in the following table.

Table 1 REGULATED SOURCES

Source Descriptions	Emission Controls
Generator No. 1	None.
Generator No. 2	None.
Generator No. 3	None.
Generator No. 4	None.

GENERATORS

Process Description

- 5. Process Description

Hidden Hollow Energy LLC operates a landfill gas-to-energy facility utilizing landfill gas from the Ada County Landfill as fuel for four 1.6-megawatt (MW) generators. At 100% load, the associated engines operate at 2233 brake horsepower (bhp).

[DRAFT]

- 6. Emission Controls Description

Table 2 GENERATOR DESCRIPTION

Emissions Units / Processes	Emission Control Devices	Emission Points
Generator No. 1	None.	Stack
Generator No. 2	None.	Stack
Generator No. 3	None.	Stack
Generator No. 4	None.	Stack

[DRAFT]

Emission Limits

- 7. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only

In accordance with 40 CFR 60.4233, the permittee must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE.

Table 1 to Subpart JJJJ of Part 60—NO_x, CO, and VOC Emission Standards for Stationary Non-Emergency SI Engines ≥100 hp

Engine type and fuel	Maximum engine power	Manufacture date	Emission standards ^a					
			g/hp-hr			ppmvd at 15% O ₂		
			NO _x	CO	VOC ^d	NO _x	CO	VOC ^d
Landfill/Digester Gas	hp≥500	7/1/2010	2.0	5.0	1.0	150	610	80

a) Owners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either g/hp-hr or ppmvd at 15 percent O₂.
 b) For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

[DRAFT]

- 8. Opacity Limit

Emissions from the generator stacks, or any other stack, vent, or functionally equivalent opening associated with generators, shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

- 9. In accordance with IDAPA 58.01.01.313.01.b, you shall submit a complete application to DEQ for an initial Tier I operating permit within 12 months of becoming a Tier I source or commencing operation.

[DRAFT]

10. The permittee shall operate and maintain the generators in a manner consistent with the manufacturer's recommendations. [DRAFT]
11. NSPS 40 CFR 60. Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – Maintenance plan
 In accordance with 40 CFR 60.4243(b)(2)(ii), the owner or operator must keep a maintenance plan and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [DRAFT]
12. Within 60 days of permit issuance, the permittee shall submit the maintenance plan required by subpart JJJJ for Generators 3 and 4 to EPA and DEQ addresses presented in the Reporting Requirements section. [DRAFT]
13. NSPS 40 CFR 60. Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – Lifetime Operation and Maintenance
 In accordance with 40 CFR 60.4234, the owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in 40 CFR 60.4233 over the entire life of the engine. [DRAFT]
14. NSPS 40 CFR 60. Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – AFR Controller Maintenance and Operation
 In accordance with 40 CFR 60.4243 (g), the permittee shall maintain and operate the AFR controller in order to ensure proper operation of the engine and control device to minimize emissions at all times. [DRAFT]
15. Allowable Fuel
 The generators shall burn landfill gas only.

Comment [A1]: Kathy: I would like to submit this within 60 days of start of construction for the modified plant. We are still a while away from beginning construction.

Monitoring and Recordkeeping Requirements

16. Generators 1 and 2 only
 The permittee shall document all maintenance and repair work conducted on the generators. This documentation shall remain on-site and shall be made available to DEQ representatives upon request. [DRAFT]
17. Generators 3 and 4 only – Maintenance Plan
 The permittee shall update the maintenance plan as needed and shall maintain the plan on-site and be made available to DEQ representatives upon request for a period of at least five years. A copy of the manufacturer's recommendations shall be included with the maintenance plan shall remain on-site and shall be made available to DEQ representatives upon request. The operation and monitoring requirements specified in the O&M manual are incorporated by reference to this permit and are enforceable permit conditions. [DRAFT]

18. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only - Records

In accordance with 40 CFR 60.4245 (a)(1), (2) and (4) of this section, the owner or operator shall keep records of the following information:

- (1) All notifications submitted to comply with this subpart and all documentation supporting any notification.
- (2) Maintenance conducted on the engine.
- (4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to §60.4243(a)(2), documentation that the engine meets the emission standards.

[DRAFT]

Performance Testing Requirements

19. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only - Performance Test Schedule

In accordance with 40 CFR 60.4243 (b) (2)(ii), the owner or operator shall conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

- In accordance with 40 CFR 60.8, the permittee shall conduct the initial performance test within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup.

20. In accordance with PTC General Provision 25, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ.

[DRAFT]

21. In accordance with PTC General Provision 26, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval at the address(es) provided in the Reporting Requirements section. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

[DRAFT]

22. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – Performance Test Procedures

In accordance with 40 CFR 60.4244, owners or operators who conduct performance tests shall follow the procedures in paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in §60.8(c). If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this section, as specified in §60.8(f). Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

Comment [A2]: We would like to change as ... conduct the performance test upon startup of engine and achieving typical operating conditions."

(d) To determine compliance with the NO_x mass per unit output emission limitation, convert the concentration of NO_x in the engine exhaust using Equation 1 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 1})$$

Where:

ER = Emission rate of NO_x in g/HP-hr.

C_d = Measured NO_x concentration in parts per million by volume (ppmv).

1.912 × 10⁻³ = Conversion constant for ppm NO_x to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section:

$$ER = \frac{C_d \times 1.164 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 2})$$

Where:

ER = Emission rate of CO in g/HP-hr.

C_d = Measured CO concentration in ppmv.

1.164 × 10⁻³ = Conversion constant for ppm CO to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(f) For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \quad (\text{Eq. 3})$$

Where:

ER = Emission rate of VOC in g/HP-hr.

C_d = VOC concentration measured as propane in ppmv.

1.833 × 10⁻³ = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

[DRAFT]

23. As stated in 40 CFR 60.4244 (a), the permittee must comply with the following requirements for performance tests within 10 percent of 100 percent peak (or the highest achievable) load:

Table 2 to Subpart JJJJ of Part 60—Requirements for Performance Tests

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary SI internal combustion engine demonstrating compliance according to §60.4244.	a. limit the concentration of NO _x in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A or ASTM Method D6522-00(2005) ^a .	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B ^b of 40 CFR part 60, appendix A or ASTM Method D6522-00(2005) ^a .	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for NO _x concentration.
		iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.	
		iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see §60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for NO _x concentration.
		v. Measure NO _x at the exhaust of the stationary internal combustion engine.	(5) Method 7E of 40 CFR part 60, appendix A, Method D6522-00(2005) ^a , Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.
	b. limit the concentration of CO in the stationary SI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B ^b of 40 CFR part 60, appendix A or ASTM Method D6522-00(2005) ^a .	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for CO concentration.
		iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.	

For each	Complying with the requirement to	You must	Using	According to the following requirements
	iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see §60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.	
	v. Measure CO at the exhaust of the stationary internal combustion engine.	(5) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00(2005) ^a , Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348-03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.	
	e. limit the concentration of VOC in the stationary SI internal combustion engine exhaust.	Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.
	ii. Determine the O ₂ concentration of the stationary internal combustion engine exhaust at the sampling port location;	(2) Method 3, 3A, or 3B ^b of 40 CFR part 60, appendix A or ASTM Method D6522-00(2005) ^a .	(b) Measurements to determine O ₂ concentration must be made at the same time as the measurements for VOC concentration.	
	iii. Determine the exhaust flowrate of the stationary internal combustion engine exhaust;	(3) Method 2 or 19 of 40 CFR part 60.		
	iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see §60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.	
	v. Measure VOC at the exhaust of the stationary internal combustion engine.	(5) Methods 25A and 18 of 40 CFR part 60, appendix A, Method 25A with the use of a methane cutter as described in 40 CFR 1065.265, Method 18 or 40 CFR part 60, appendix A, ^c Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see §60.17).	(d) Results of this test consist of the average of the three 1-hour or longer runs.	

^aASTM D6522-00 is incorporated by reference; see 40 CFR 60.17. Also, you may petition the Administrator for approval to use alternative methods for portable analyzer.

^bYou may use ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses, for measuring the O₂ content of the exhaust gas as an alternative to EPA Method 3B.

^cYou may use EPA Method 18 of 40 CFR part 60, appendix A, provided that you conduct an adequate presurvey test prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (<http://www.epa.gov/ttn/emo/prelim/otm11.pdf>).

^dYou may use ASTM D6420-99 (2004), Test Method for Determination of Gaseous Organic Compounds by Direct Interface Gas Chromatography/Mass Spectrometry as an alternative to EPA Method 18 for measuring total nonmethane organic.

[DRAFT]

Reporting Requirements

24. Any notifications or reporting required by 40 CFR 60 Subpart JJJJ shall be submitted to both of the following addresses:

EPA Region 10
Director, Office of Air Quality
1200 Sixth Avenue
(OAQ-107)
Seattle, WA 98101

And,

All information:
Air Quality Permit Compliance
Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, ID 83706
(208) 373-0550

Performance test related information only:
Air Quality Source Test Review
Department of Environmental Quality
State Office
1410 N. Hilton St.
Boise, ID 83706
(208) 373-0502

[DRAFT]

25. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines – Generators 3 and 4 only – Initial Notification

In accordance with 40 CFR 60.4245, owners and operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements:

(c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in §60.4231 must submit an initial notification as required in §60.7(a)(1). The notification must include the information in paragraphs (c)(1) through (5) of this section.

- (1) Name and address of the owner or operator;
- (2) The address of the affected source;
- (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;
- (4) Emission control equipment; and
- (5) Fuel used.

[DRAFT]

26. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – Performance Test Submittal

In accordance with 60.4245 (d), owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in 40 CFR 60.4244 within 60 days after the test has been completed.

[DRAFT]

27. NSPS 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines - Generators 3 and 4 only – General Provisions of 40 CFR 60

In accordance with 40 CFR 60.4246, the permittee shall comply with the following applicable General Provisions of 40 CFR 60:

Table 3 to Subpart JJJJ of Part 60—Applicability of General Provisions to Subpart JJJJ

General provisions citation	Subject of citation	Applies to subpart	Explanation
§60.1	General applicability of the General Provisions	Yes	
§60.2	Definitions	Yes	Additional terms defined in §60.4248.
§60.3	Units and abbreviations	Yes	
§60.4	Address	Yes	
§60.5	Determination of construction or modification	Yes	
§60.6	Review of plans	Yes	
§60.7	Notification and Recordkeeping	Yes	Except that §60.7 only applies as specified in §60.4245.
§60.8	Performance tests	Yes	Except that §60.8 only applies to owners and operators who are subject to performance testing in subpart JJJJ.
§60.9	Availability of information	Yes	
§60.10	State Authority	Yes	
§60.11	Compliance with standards and maintenance requirements	Yes	Requirements are specified in subpart JJJJ.
§60.12	Circumvention	Yes	
§60.13	Monitoring requirements	No	
§60.14	Modification	Yes	
§60.15	Reconstruction	Yes	
§60.16	Priority list	Yes	
§60.17	Incorporations by reference	Yes	
§60.18	General control device requirements	No	
§60.19	General notification and reporting requirements	Yes	

[DRAFT]

LANDFILL GAS TREATMENT

Process Description

28. Process Description

The landfill gas collected by the Ada County Landfill undergoes treatment prior to combustion in the generator engines. This treatment process includes: dewatering; compression; cooling, and filtration.

[DRAFT]

Operating Requirements

29. NSPS 40 CFR 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – Develop a Startup, Shutdown and Malfunction Plan (SSM)

In accordance with 40 CFR 63.1960, the permittee shall develop a written SSM plan according to the provisions in 40 CFR 63.6(e)(3).

- (i) The owner or operator of an affected source must develop a written startup, shutdown, and malfunction plan that describes, in detail, procedures for operating and maintaining the source during periods of startup, shutdown, and malfunction; and a program of corrective action for malfunctioning process, air pollution control, and monitoring equipment used to comply with the relevant standard. The startup, shutdown, and malfunction plan does not need to address any scenario that would not cause the source to exceed an applicable emission limitation in the relevant standard. This plan must be developed by the owner or operator by the source's compliance date for that relevant standard. The purpose of the startup, shutdown, and malfunction plan is to—
 - (A) Ensure that, at all times, the owner or operator operates and maintains each affected source, including associated air pollution control and monitoring equipment, in a manner which satisfies the general duty to minimize emissions established by paragraph (e)(1)(i) of this section;
 - (B) Ensure that owners or operators are prepared to correct malfunctions as soon as practicable after their occurrence in order to minimize excess emissions of hazardous air pollutants; and
 - (C) Reduce the reporting burden associated with periods of startup, shutdown, and malfunction (including corrective action taken to restore malfunctioning process and air pollution control equipment to its normal or usual manner of operation).
- (vi) To satisfy the requirements of this section to develop a startup, shutdown, and malfunction plan, the owner or operator may use the affected source's standard operating procedures (SOP) manual, or an Occupational Safety and Health Administration (OSHA) or other plan, provided the alternative plans meet all the requirements of this section and are made available for inspection or submitted when requested by the Administrator.

Comment [A3]: The SSM plan needs to include the treatment system only. Please clarify. Since the engines handle treated gas, no SSM compliance is required for them.

[DRAFT]

30. NSPS 40 CFR 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – Operation and Maintenance Requirements

Comment [A4]: Also applies to the Treatment System only

In accordance with 40 CFR 63.6 (e)(1), the permittee must meet the following operation and maintenance requirements:

- (i) *At all times, including periods of startup, shutdown, and malfunction, the owner or operator must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. During a period of startup, shutdown, or malfunction, this general duty to minimize emissions requires that the owner or operator reduce emissions from the affected source to the greatest extent which is consistent with safety and good air pollution control practices. The general duty to minimize emissions during a period of startup, shutdown, or malfunction does not require the owner or operator to achieve emission levels that would be required by the applicable standard at other times if this is not consistent with safety and good air pollution control practices, nor does it require the owner or operator to make any further efforts to reduce emissions if levels required by the applicable standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures (including the startup, shutdown, and malfunction plan required in paragraph (e)(3) of this section), review of operation and maintenance records, and inspection of the source.*
- (ii) *Malfunctions must be corrected as soon as practicable after their occurrence. To the extent that an unexpected event arises during a startup, shutdown, or malfunction, an owner or operator must comply by minimizing emissions during such a startup, shutdown, and malfunction event consistent with safety and good air pollution control practices.*
- (iii) *Operation and maintenance requirements established pursuant to section 112 of the Act are enforceable independent of emissions limitations or other requirements in relevant standards.*

[DRAFT]

Monitoring and Recordkeeping Requirements

31. NSPS 40 CFR 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – Recordkeeping of SSM event

In accordance with 40 CFR 63.6 (e)(3), the permittee shall comply with the following recordkeeping requirements:

- (iii) *When actions taken by the owner or operator during a startup or shutdown (and the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction (including actions taken to correct a malfunction) are consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, the owner or operator must keep records for that event which demonstrate that the procedures specified in the plan were followed.*
 - *These records may take the form of a "checklist," or other effective form of recordkeeping that confirms conformance with the startup, shutdown, and malfunction plan and describes the actions taken for that event.*
 - *In addition, the owner or operator must keep records of these events as specified in paragraph 63.10(b), including records of the occurrence and duration of each startup or shutdown (if the startup or shutdown causes the source to exceed any applicable emission limitation in the relevant emission standards), or malfunction of operation and each malfunction of the air pollution control and monitoring equipment.*

- Furthermore, the owner or operator shall confirm that actions taken during the relevant reporting period during periods of startup, shutdown, and malfunction were consistent with the affected source's startup, shutdown and malfunction plan in the semiannual (or more frequent) startup, shutdown, and malfunction report required in 40 CFR 63.10(d)(5).
- (iv) If an action taken by the owner or operator during a startup, shutdown, or malfunction (including an action taken to correct a malfunction) is not consistent with the procedures specified in the affected source's startup, shutdown, and malfunction plan, and the source exceeds any applicable emission limitation in the relevant emission standard, then the owner or operator must record the actions taken for that event and must report such actions within 2 working days after commencing actions inconsistent with the plan, followed by a letter within 7 working days after the end of the event, in accordance with 40 CFR 63.10(d)(5) (unless the owner or operator makes alternative reporting arrangements, in advance, with the Administrator).

[DRAFT]

32. NSPS 40 CFR 63, Subpart AAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – SSM Plan Maintenance

In accordance with 40 CFR 63.6 (e)(3)(v), the permittee shall comply with the following recordkeeping requirements:

- The owner or operator must maintain at the affected source a current startup, shutdown, and malfunction plan and must make the plan available upon request for inspection and copying by the Administrator.
- In addition, if the startup, shutdown, and malfunction plan is subsequently revised as provided in paragraph (e)(3)(viii) of this section, the owner or operator must maintain at the affected source each previous (i.e., superseded) version of the startup, shutdown, and malfunction plan, and must make each such previous version available for inspection and copying by the Administrator for a period of 5 years after revision of the plan.
- If at any time after adoption of a startup, shutdown, and malfunction plan the affected source ceases operation or is otherwise no longer subject to the provisions of this part, the owner or operator must retain a copy of the most recent plan for 5 years from the date the source ceases operation or is no longer subject to this part and must make the plan available upon request for inspection and copying by the Administrator.
- The Administrator may at any time request in writing that the owner or operator submit a copy of any startup, shutdown, and malfunction plan (or a portion thereof) which is maintained at the affected source or in the possession of the owner or operator.
 - Upon receipt of such a request, the owner or operator must promptly submit a copy of the requested plan (or a portion thereof) to the Administrator.
 - The owner or operator may elect to submit the required copy of any startup, shutdown, and malfunction plan to the Administrator in an electronic format. If the owner or operator claims that any portion of such a startup, shutdown, and malfunction plan is confidential business information entitled to protection from disclosure under section 114(c) of the Act or 40 CFR 2.301, the material which is claimed as confidential must be clearly designated in the submission.

[DRAFT]

33. NSPS 40 CFR 63, Subpart AAAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – SSM Plan Revisions by Administrator

In accordance with 40 CFR 63.6 (e)(3)(vii), the permittee shall comply with the following recordkeeping requirements:

- *Based on the results of a determination made under paragraph (e)(1)(i) of this section, the Administrator may require that an owner or operator of an affected source make changes to the startup, shutdown, and malfunction plan for that source. The Administrator must require appropriate revisions to a startup, shutdown, and malfunction plan, if the Administrator finds that the plan:*
 - *(A) Does not address a startup, shutdown, or malfunction event that has occurred;*
 - *(B) Fails to provide for the operation of the source (including associated air pollution control and monitoring equipment) during a startup, shutdown, or malfunction event in a manner consistent with the general duty to minimize emissions established by paragraph (e)(1)(i) of this section;*
 - *(C) Does not provide adequate procedures for correcting malfunctioning process and/or air pollution control and monitoring equipment as quickly as practicable; or*
 - *(D) Includes an event that does not meet the definition of startup, shutdown, or malfunction listed in 40 CFR 63.2.*

[DRAFT]

34. NSPS 40 CFR 63, Subpart AAAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – SSM Plan Revisions by Permittee

In accordance with 40 CFR 63.6 (e)(3)(viii), the permittee shall comply with the following recordkeeping requirements:

- *The owner or operator may periodically revise the startup, shutdown, and malfunction plan for the affected source as necessary to satisfy the requirements of this part or to reflect changes in equipment or procedures at the affected source.*
- *Unless the permitting authority provides otherwise, the owner or operator may make such revisions to the startup, shutdown, and malfunction plan without prior approval by the Administrator or the permitting authority.*
- *However, each such revision to a startup, shutdown, and malfunction plan must be reported in the semiannual report required by 40 CFR 63.10(d)(5).*
- *If the startup, shutdown, and malfunction plan fails to address or inadequately addresses an event that meets the characteristics of a malfunction but was not included in the startup, shutdown, and malfunction plan at the time the owner or operator developed the plan, the owner or operator must revise the startup, shutdown, and malfunction plan within 45 days after the event to include detailed procedures for operating and maintaining the source during similar malfunction events and a program of corrective action for similar malfunctions of process or air pollution control and monitoring equipment.*
- *In the event that the owner or operator makes any revision to the startup, shutdown, and malfunction plan which alters the scope of the activities at the source which are deemed to be a startup, shutdown, or malfunction, or otherwise modifies the applicability of any emission limit, work practice requirement, or other requirement in a standard established under this part, the revised plan shall not take effect until after the owner or operator has provided a written notice describing the revision to the permitting authority.*

[DRAFT]

35. NSPS 40 CFR 63, Subpart AAAAA – National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills – Records and Reports

In accordance with 40 CFR 63.1980, the permittee shall comply with the general provisions of 40 CFR 60 and 63 that are related to the SSM plan and plan reports.

Part 63 Citation	Description
63.2	Definitions
63.6(e)	Operation and maintenance requirements, startup, shutdown and malfunction plan provisions
63.10(b)(2)(i)-(b)(2)(v)	General recordkeeping requirements
63.10(d)(5)	If actions taken during a startup, shutdown and malfunction plan are consistent with the procedures in the startup, shutdown and malfunction plan, this information shall be included in a semi-annual startup, shutdown and malfunction plan report. Any time an action taken during a startup, shutdown and malfunction plan is not consistent with the startup, shutdown and malfunction plan, the source shall report actions taken within 2 working days after commencing such actions, followed by a letter 7 days after the event

General provisions citation	Subject of citation	Applies to subpart
§60.1	General applicability of the General Provisions	Yes
§60.2	Definitions	Yes
§60.3	Units and abbreviations	Yes
§60.4	Address	Yes
§60.7	Notification and Recordkeeping	Yes
§60.11	Compliance with standards and maintenance requirements	Yes
§60.19	General notification and reporting requirements	Yes

[DRAFT]

PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

33-36. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq. [Idaho Code §39-101, et seq.]

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34-37. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution. [IDAPA 58.01.01.211, 5/1/94]

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35-38. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations. [IDAPA 58.01.01.212.01, 5/1/94]

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Inspection and Entry

36-39. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:

- Enter upon the permittee’s premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
- Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
- Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
- As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108]

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Construction and Operation Notification

37-40. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:

- A notification of the date of initiation of construction, within five working days after occurrence;
- A notification of the date of any suspension of construction, if such suspension lasts for one year or more;
- A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
- A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and

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- A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211, 5/1/94]

Performance Testing

~~38.41.~~ If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ, at its option, may have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

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~~39.42.~~ All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

~~40.43.~~ Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

~~41.44.~~ The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

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[IDAPA 58.01.01.211, 5/1/94]

Excess Emissions

~~42.45.~~ The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

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Certification

~~43.46.~~ All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

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[IDAPA 58.01.01.123, 5/1/94]

False Statements

~~44-47~~ No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.125, 3/23/98]

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Tampering

~~45-48~~ No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.
[IDAPA 58.01.01.126, 3/23/98]

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Transferability

~~46-49~~ This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.
[IDAPA 58.01.01.209.06, 4/11/06]

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Severability

~~47-50~~ The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
[IDAPA 58.01.01.211, 5/1/94]

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STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

1410 North Hilton • Boise, Idaho 83706 • (208) 373-0502

C.L. "Butch" Otter, Governor
Toni Hardesty, Director

December 29, 2008

Certified Mail No. 7190 0596 0014 0000 4943

Anthony J. Falbo
Vice President and General Manager
Hidden Hollow Energy LLC
10300 Seamens Gulch Rd.
Boise, ID 83702

RECEIVED
JAN 16 2009
FORTISTAR METHANE GROUP

RE: Facility ID No. 001-00214, Hidden Hollow Energy LLC, Boise
Final Permit Letter

Dear Mr. Falbo:

The Department of Environmental Quality (DEQ) is issuing Permit to Construct (PTC) No. P-2008.0190 to Hidden Hollow Energy LLC for a facility name change and update of the Facility Contact and Responsible Official, at 10300 Seamens Gulch Road, Boise, ID, in accordance with IDAPA 58.01.01.200 through 228 (Rules for the Control of Air Pollution in Idaho).

This permit is based on your permit application received on October 24, 2008. This permit is effective immediately and replaces PTC No. P-050049, issued on March 23, 2006, the terms and conditions of which no longer apply. This permit does not release Hidden Hollow Energy LLC from compliance with all other applicable federal, state, or local laws, regulations, permits, or ordinances.

In order to fully understand the compliance requirements of this permit, DEQ highly recommends that you schedule a meeting with Tom Krinke, Air Quality Compliance Officer, at (208) 373-0419 to review and discuss the terms and conditions of this permit. Should you choose to schedule this meeting, DEQ recommends the following representatives attend the meeting: your facility's plant manager, responsible official, environmental contact, and any other staff responsible for day-to-day compliance with permit conditions.

Hidden Hollow Energy LLC, Boise
Page 2 of 2

Pursuant to IDAPA 58.01.23, you, as well as any other entity, may have the right to appeal this final agency action within 35 days of the date of this decision. However, prior to filing a petition for a contested case, I encourage you to contact Darrin Pampaian at (208) 373-0502 or darrin.pampaian@deq.idaho.gov to address any questions or concerns you may have with the enclosed permit.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Simon". The signature is fluid and cursive, written over a white background.

Mike Simon
Stationary Source Program Manager
Air Quality Division

MS\DRP\hp

Project No. P-2008.0190

Enclosure



**Air Quality
PERMIT TO CONSTRUCT
State of Idaho
Department of Environmental Quality**

PERMIT No.: P-2008.0190
FACILITY ID No.: 001-00214
AQCR: 64 **CLASS:** SM80 **ZONE:** 11
SIC: 4911 **NAICS:** 221119
UTM COORDINATE (km): 557.5, 4838.6

1. PERMITTEE

Hidden Hollow Energy LLC

2. PROJECT

Permit to Construct revision – facility name change

3. MAILING ADDRESS

3005 Douglas Blvd., Suite 105

CITY

Roseville

STATE

CA

ZIP

95661

4. FACILITY CONTACT

Bryan Lawrence

TITLE

Director of Operations

TELEPHONE

(916) 789-2250, ext. 118

5. RESPONSIBLE OFFICIAL

Anthony J. Falbo

TITLE

Vice President and General Manager

TELEPHONE

(716) 439-1004, ext. 116

6. EXACT PLANT LOCATION

10300 Seamens Gulch Road, Boise, ID

COUNTY

Ada

7. GENERAL NATURE OF BUSINESS & KINDS OF PRODUCTS

Electrical generation using landfill gas

8. PERMIT AUTHORITY

This permit is issued according to the Rules for the Control of Air Pollution in Idaho, IDAPA 58.01.01.200 through 228, and pertains only to emissions of air contaminants regulated by the state of Idaho and to the sources specifically allowed to be constructed or modified by this permit.

This permit (a) does not affect the title of the premises upon which the equipment is to be located; (b) does not release the permittee from any liability for any loss due to damage to person or property caused by, resulting from, or arising out of the design, installation, maintenance, or operation of the proposed equipment; (c) does not release the permittee from compliance with other applicable federal, state, tribal, or local laws, regulations, or ordinances; (d) in no manner implies or suggests that the Department of Environmental Quality (DEQ) or its officers, agents, or employees, assume any liability, directly or indirectly, for any loss due to damage to person or property caused by, resulting from, or arising out of design, installation, maintenance, or operation of the proposed equipment.

This permit will expire if construction has not begun within two years of its issue date or if construction is suspended for one year.

This permit has been granted on the basis of design information presented with its application. Changes in design, equipment or operations may be considered a modification. Modifications are subject to DEQ review in accordance with IDAPA 58.01.01.200 through 228 of the Rules for the Control of Air Pollution in Idaho.

DARRIN PAMPAIAN, PERMIT WRITER
DEPARTMENT OF ENVIRONMENTAL QUALITY

MIKE SIMON, STATIONARY SOURCE PROGRAM MANAGER
DEPARTMENT OF ENVIRONMENTAL QUALITY

DATE MODIFIED/REVISED:	December 29, 2008
DATE ISSUED:	March 23, 2006

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Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AFS	AIRS Facility Subsystem
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
gpm	gallons per minute
gr	grain (1 lb = 7,000 grains)
HAPs	hazardous air pollutants
hp	horsepower
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
km	kilometer
lb/hr	pounds per hour
m	meter(s)
MACT	Maximum Achievable Control Technology
MMBtu	million British thermal units
NESHAP	Nation Emission Standards for Hazardous Air Pollutants
NO ₂	nitrogen dioxide
NO _x	nitrogen oxides
NSPS	New Source Performance Standards
PM	particulate matter
PM ₁₀	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PSD	Prevention of Significant Deterioration
PTC	permit to construct
PTE	potential to emit
scf	standard cubic feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SM	synthetic minor
SO ₂	sulfur dioxide
SO _x	sulfur oxides
T/yr	tons per year
µg/m ³	micrograms per cubic meter
UTM	Universal Transverse Mercator
VOC	volatile organic compound

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0190

Permittee:	Hidden Hollow Energy LLC
Location:	Boise, Idaho

Facility ID No. 001-00214

1. PERMIT TO CONSTRUCT SCOPE

Purpose

- 1.1 The purpose of this PTC revision is to change the name of the facility from G2 Energy to Hidden Hollow Energy LLC.
- 1.2 This PTC replaces PTC No. P-050049, issued on March 23, 2006, the terms and conditions of which shall no longer apply.

Regulated Sources

- 1.3 Table 1.1 lists all sources of regulated emissions in this PTC.

Table 1.1 SUMMARY OF REGULATED SOURCES

Permit Section	Source Description	Emissions Control
2	(2) 1.6-megawatt electrical generators	None

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0190

Permittee:	Hidden Hollow Energy LLC
Location:	Boise, Idaho

Facility ID No. 001-00214

2. GENERATORS

2.1 Process Description

Two 1.6-megawatt electrical generators will use the methane gas produced by the Ada County Landfill Hidden Hollow Cell to produce electricity. Annual electrical power production for each generator is limited to 12,894,720 kilowatts to limit CO emissions to 99 T/yr.

2.2 Emissions Control Description

Emissions from the generators are uncontrolled.

Emissions Limits

2.3 Emissions Limits

The CO emissions from the two generator stacks in combination shall not exceed 99 tons per any consecutive 12-month period.

2.4 Opacity Limit

Visible emissions from the generator stacks or any other stack, vent, or functionally equivalent opening associated with the generators shall not exceed 20% opacity for a period or periods aggregating more than three minutes in any 60-minute period as required by IDAPA 58.01.01.625. Opacity shall be determined by the procedures contained in IDAPA 58.01.01.625.

Operating Requirements

2.5 Annual Electrical Power Production Limit

Annual electrical power production for each generator shall be limited to 12,894,720 kilowatts per any 12-month consecutive period.

2.6 Allowable Fuel

The generators shall burn landfill gas only.

2.7 Power Meter

The permittee shall install, calibrate, maintain, and operate on each 1.6-megawatt generator a power meter to track the kilowatts of energy produced on an hourly basis.

Monitoring and Recordkeeping Requirements

2.8 Energy Production Monitoring

The permittee shall monitor and record on an hourly basis the kilowatts of energy produced. Annual kilowatts produced shall be determined by summing hourly kilowatts produced over the previous consecutive 12-month period to demonstrate compliance with Permit Conditions 2.3 and 2.5.

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Location:	Boise, Idaho

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3. PERMIT TO CONSTRUCT GENERAL PROVISIONS

General Compliance

1. The permittee has a continuing duty to comply with all terms and conditions of this permit. All emissions authorized herein shall be consistent with the terms and conditions of this permit and the Rules for the Control of Air Pollution in Idaho. The emissions of any pollutant in excess of the limitations specified herein, or noncompliance with any other condition or limitation contained in this permit, shall constitute a violation of this permit and the Rules for the Control of Air Pollution in Idaho, and the Environmental Protection and Health Act, Idaho Code §39-101, et seq.

[Idaho Code §39-101, et seq.]
2. The permittee shall at all times (except as provided in the Rules for the Control of Air Pollution in Idaho) maintain in good working order and operate as efficiently as practicable, all treatment or control facilities or systems installed or used to achieve compliance with the terms and conditions of this permit and other applicable Idaho laws for the control of air pollution.

[IDAPA 58.01.01.211, 5/1/94]
3. Nothing in this permit is intended to relieve or exempt the permittee from the responsibility to comply with all applicable local, state, or federal statutes, rules and regulations.

[IDAPA 58.01.01.212.01, 5/1/94]

Inspection and Entry

4. Upon presentation of credentials, the permittee shall allow DEQ or an authorized representative of DEQ to do the following:
 - a. Enter upon the permittee's premises where an emissions source is located or emissions related activity is conducted, or where records are kept under conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records that are kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d. As authorized by the Idaho Environmental Protection and Health Act, sample or monitor, at reasonable times, substances or parameters for the purpose of determining or ensuring compliance with this permit or applicable requirements.

[Idaho Code §39-108]

Construction and Operation Notification

5. The permittee shall furnish DEQ written notifications as follows in accordance with IDAPA 58.01.01.211:
 - a. A notification of the date of initiation of construction, within five working days after occurrence;
 - b. A notification of the date of any suspension of construction, if such suspension lasts for one year or more;

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0190

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Location: Boise, Idaho

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- c. A notification of the anticipated date of initial start-up of the stationary source or facility not more than sixty days or less than thirty days prior to such date;
- d. A notification of the actual date of initial start-up of the stationary source or facility within fifteen days after such date; and
- e. A notification of the initial date of achieving the maximum production rate, within five working days after occurrence - production rate and date.

[IDAPA 58.01.01.211, 5/1/94]

Performance Testing

6. If performance testing (air emissions source test) is required by this permit, the permittee shall provide notice of intent to test to DEQ at least 15 days prior to the scheduled test date or shorter time period as approved by DEQ. DEQ may, at its option, have an observer present at any emissions tests conducted on a source. DEQ requests that such testing not be performed on weekends or state holidays.

All performance testing shall be conducted in accordance with the procedures in IDAPA 58.01.01.157. Without prior DEQ approval, any alternative testing is conducted solely at the permittee's risk. If the permittee fails to obtain prior written approval by DEQ for any testing deviations, DEQ may determine that the testing does not satisfy the testing requirements. Therefore, at least 30 days prior to conducting any performance test, the permittee is encouraged to submit a performance test protocol to DEQ for approval. The written protocol shall include a description of the test method(s) to be used, an explanation of any or unusual circumstances regarding the proposed test, and the proposed test schedule for conducting and reporting the test.

Within 30 days following the date in which a performance test required by this permit is concluded, the permittee shall submit to DEQ a performance test report. The written report shall include a description of the process, identification of the test method(s) used, equipment used, all process operating data collected during the test period, and test results, as well as raw test data and associated documentation, including any approved test protocol.

[IDAPA 58.01.01.157, 4/5/00]

Monitoring and Recordkeeping

7. The permittee shall maintain sufficient records to ensure compliance with all of the terms and conditions of this permit. Records of monitoring information shall include, but not be limited to the following: (a) the date, place, and times of sampling or measurements; (b) the date analyses were performed; (c) the company or entity that performed the analyses; (d) the analytical techniques or methods used; (e) the results of such analyses; and (f) the operating conditions existing at the time of sampling or measurement. All monitoring records and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Supporting information includes, but is not limited to, all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation and copies of all reports required by this permit. All records required to be maintained by this permit shall be made available in either hard copy or electronic format to DEQ representatives upon request.

[IDAPA 58.01.01.211, 5/1/94]

AIR QUALITY PERMIT TO CONSTRUCT NUMBER: P-2008.0190

Permittee:	Hidden Hollow Energy LLC
Location:	Boise, Idaho

Facility ID No. 001-00214

Excess Emissions

8. The permittee shall comply with the procedures and requirements of IDAPA 58.01.01.130-136 for excess emissions due to startup, shutdown, scheduled maintenance, safety measures, upsets and breakdowns.

[IDAPA 58.01.01.130-136, 4/5/00]

Certification

9. All documents submitted to DEQ, including, but not limited to, records, monitoring data, supporting information, requests for confidential treatment, testing reports, or compliance certification shall contain a certification by a responsible official. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document(s) are true, accurate, and complete.

[IDAPA 58.01.01.123, 5/1/94]

False Statements

10. No person shall knowingly make any false statement, representation, or certification in any form, notice, or report required under this permit, or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.125, 3/23/98]

Tampering

11. No person shall knowingly render inaccurate any monitoring device or method required under this permit or any applicable rule or order in force pursuant thereto.

[IDAPA 58.01.01.126, 3/23/98]

Transferability

12. This permit is transferable in accordance with procedures listed in IDAPA 58.01.01.209.06.

[IDAPA 58.01.01.209.06, 4/11/06]

Severability

13. The provisions of this permit are severable, and if any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

[IDAPA 58.01.01.322.15.h, 5/1/94; 40 CFR 70.6(a)(5)]



State of Idaho
Department of Environmental Quality
Air Quality Division

**AIR QUALITY PERMIT
STATEMENT OF BASIS**

Permit to Construct No. P-2008.0190

Final

Hidden Hollow Energy LLC

Boise, Idaho

Facility ID No. 001-00214

December 24, 2008

Darrin Pampaian

A handwritten signature in black ink, appearing to be "D.P.", written over the printed name "Darrin Pampaian".

Permit Writer

The purpose of this Statement of Basis is to satisfy the requirements of IDAPA 58.01.01. et seq, Rules for the Control of Air Pollution in Idaho, for issuing air permits.

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Acronyms, Units, and Chemical Nomenclature

acfm	actual cubic feet per minute
AFS	AIRS Facility Subsystem
AIRS	Aerometric Information Retrieval System
AQCR	Air Quality Control Region
ASTM	American Society for Testing and Materials
BACT	Best Available Control Technology
Btu	British thermal unit
CAA	Clean Air Act
CFR	Code of Federal Regulations
CO	carbon monoxide
DEQ	Department of Environmental Quality
gr	grain (1 lb = 7,000 grains)
dscf	dry standard cubic feet
EPA	U.S. Environmental Protection Agency
FEC	Facility Emissions Cap
gpm	gallons per minute
HAP	Hazardous Air Pollutant
hp	horsepower
IDAPA	a numbering designation for all administrative rules in Idaho promulgated in accordance with the Idaho Administrative Procedures Act
lb/hr	pounds per hour
m	meter(s)
MACT	Maximum Achievable Control Technology
$\mu\text{g}/\text{m}^3$	micrograms per cubic meter
MMBtu	million British thermal units
NESHAP	National Emission Standards for Hazardous Air Pollutants
NO_2	nitrogen dioxide
NO_x	nitrogen oxides
NSPS	New Source Performance Standards
PC	permit condition
PM	particulate matter
PM_{10}	particulate matter with an aerodynamic diameter less than or equal to a nominal 10 micrometers
ppm	parts per million
PSD	Prevention of Significant Deterioration
PTC	permit to construct
PTE	potential to emit
Rules	Rules for the Control of Air Pollution in Idaho
scf	standard cubic feet
SIC	Standard Industrial Classification
SIP	State Implementation Plan
SM	Synthetic Minor
SO_2	sulfur dioxide
SO_x	sulfur oxides
TAP	Toxic Air Pollutant
T2	Tier II operating permit
T2/PTC	Tier II operating permit and permit to construct
T/yr	tons per year
UTM	Universal Transverse Mercator
VOC	volatile organic compound

STATEMENT OF BASIS

Permittee:	Hidden Hollow Energy LLC	Permit No.	P-2008.0190
Location:	Boise, Idaho	Facility ID No.	001-00214

1. FACILITY INFORMATION

1.1 Facility Description

Hidden Hollow Energy LLC operates a landfill gas to energy facility utilizing landfill gas from the Ada County Hidden Hollow Sanitary Landfill as fuel for two 1.6-megawatt (MW) generators.

1.2 Permitting Action and Facility Permitting History

This PTC is a revision of an existing PTC. Permit status is noted as active and in effect (A) or superseded (S).

March 23, 2006 P-050049, Initial PTC issued, Permit status (A, will be S as a result of this project)

2. APPLICATION SCOPE AND APPLICATION CHRONOLOGY

2.1 Application Scope

This project is a PTC revision for a facility name change. No other substantive changes were made to the permit.

2.2 Application Chronology

October 24, 2008 DEQ received a request for a facility name change from Hidden Hollow Energy, LLC.
December 15, 2008 DEQ sent a draft PTC to the facility for review.
December 29, 2008 The final permit and statement of basis were issued.

3. TECHNICAL ANALYSIS

This section lists the emissions units, describes the production or manufacturing processes, and provides the emissions inventory for this facility. For details regarding the emissions units, process descriptions, and the emissions inventory for this facility, refer to the Statement of Basis for PTC No. P-050049 issued on March 14, 2006. This information was not changed as a result of this project.

4. REGULATORY REVIEW

This section lists the regulatory requirements for the emissions units at this facility. For details regarding these regulatory requirements, refer to the Statement of Basis for PTC No. P-050049 issued on March 14, 2006. This information was not changed as a result of this project.

STATEMENT OF BASIS

Permittee:	Hidden Hollow Energy LLC	Permit No.	P-2008.0190
Location:	Boise, Idaho	Facility ID No.	001-00214

5. PERMIT FEES

In accordance with IDAPA 58.01.01.225 no fees are required for name and ownership changes that meet the requirements of IDAPA 58.01.01.224.03. This project meets these requirements. Therefore, no processing fee is required for this project.

6. PUBLIC COMMENT

An opportunity for public comment period on the PTC application is not required for name changes in accordance with IDAPA 58.01.01.209.04. Therefore, a public comment period was not provided for this project.

Appendix A – AIRS Information

AIRS/AFS Facility-wide Classification Form

Facility Name: Hidden Hollow Energy LLC
 Facility Location: 10300 Seamans Gulch Road, Boise, ID
 Facility ID: 001-00214 Date: December 29, 2008
 Project/Permit No.: P-2008.0190 Completed By: Darrin Pampaian

- Check if there are no changes to the facilitywide classification resulting from this action. (compare to form with last permit)
- Yes, this facility is an SM80 source.

Identify the facility's area classification as A (attainment), N (nonattainment), or U (unclassified) for the following pollutants:

	SO2	PM10	VOC
Area Classification:			

DO NOT LEAVE ANY BLANK

Check one of the following:

- SIP [0]** - Yes, this facility is subject to SIP requirements. (do not use if facility is Title V)
- OR
- Title V [V]** - Yes, this facility is subject to Title V requirements. (If yes, do not also use SIP listed above.)

For SIP or TV, identify the classification (A, SM, B, C, or ND) for the pollutants listed below. Leave box blank if pollutant is not applicable to facility.

	SO2	NOx	CO	PM10	PT (PM)	VOC	THAP
Classification:							

- PSD [6]** - Yes, this facility has a PSD permit.

If yes, identify the pollutant(s) listed below that apply to PSD. Leave box blank if pollutant does not apply to PSD.

	SO2	NOx	CO	PM10	PT (PM)	VOC	THAP
Classification:	<input type="checkbox"/>						

- NSR - NAA [7]** - Yes, this facility is subject to NSR nonattainment area (IDAPA 58.01.01.204) requirements.

Note: As of 9/12/08, Idaho has no facility in this category.

If yes, identify the pollutant(s) listed below that apply to NSR-NAA. Leave box blank if pollutant does not apply to NSR - NAA.

	SO2	NOx	CO	PM10	PT (PM)	VOC	THAP
Classification:	<input type="checkbox"/>						

- NESHAP [8]** - Yes, this facility is subject to NESHAP (Part 61) requirements. (THAP only)

If yes, what CFR Subpart(s) is applicable?

- NSPS [9]** - Yes, this facility is subject to NSPS (Part 60) requirements.

If yes, what CFR Subpart(s) is applicable?

If yes, identify the pollutant(s) regulated by the subpart(s) listed above. Leave box blank if pollutant does not apply to the NSPS.

	SO2	NOx	CO	PM10	PT (PM)	VOC	THAP
Classification:	<input type="checkbox"/>						

- MACT [M]** - Yes, this facility is subject to MACT (Part 63) requirements. (THAP only)

If yes, what CFR Subpart(s) is applicable?