This Title V facility contains stationary internal combustion engines that are stated by the applicant not to be subject to the following federal rules:

- 40 CFR 60, Subpart IIII – Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
- 40 CFR 60, Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

However, the Title V facility included the federal rules in the list of Applicable Regulations, Title V Core List

Pursuant to Rule 62-213.460, F.A.C. – Permit Shield, the stationary internal combustion engines are stated below:

EU No.	Emission Unit Description
004-009	Six Caterpillar Model G3520C (CAT 3520) lean burn internal combustion engines

Description of the (6) Engines at the Trail Ridge Energy Plant

Engine Number	1	2	3	4	5	6
Serial Number	GZJ00276	GZJ00272	GZJ00264	GZJ00263	GZJ00261	GZJ00258
Sales Model	3520	3520	3520	3520	3520	3520
Built Date	2006-09-20	2006-09-15	2006-08-08	2006-08-08	2006-08-02	2006-08-01

- Each engine is a Caterpillar (CAT®) Model G3520C Internal Combustion Engine
- Each engine has a mechanical output rating of 2,233 brake horsepower
- Each engine is fuel by landfill gas only
- Each engine has a spark ignition

The Title V facility has stated the manufacture date of each of the specified G3520C Internal Combustion Engines is prior to the applicable effective date of 40 CFR 60, Subpart JJJJ. As such the engines are not subject to the provisions of this subpart. The provisions of 40 CFR 60 Subpart IIII applies to stationary compression-ignited engines, therefore these engines are not subject to the provisions of this subpart.

This section indentifies the federal New Source Performance Standards (NSPS) in 40 CFR 60 that may be applicable to emissions units regulated by this project.

NSPS SUBPART A - GENERAL PROVISIONS

The following emission units are subject to applicable NSPS in 40 CFR 60, which are adopted by reference in Rule 62-204.800(8), F.A.C.

EU No.	Emission Unit Description
012-015	Four Caterpillar Model G3520C (CAT 3520) lean burn internal combustion engines

The affected emission units are subject to the applicable General Provisions in Subpart A of the New Source Performance Standards including: §60.1 (Applicability); §60.2 (Definitions(; §60.3 (Units and Abbreviations); §60.4 (Address); §60.5 (Determination of Construction or Modification); §60.6 (Review of Plans); §60.7 (Notification and Record Keeping); §60.8 (Performance Tests); §60.9 (Availability of Information); §60.10 (State Authority); §60.11 (Compliance with Standards and Maintenance Requirements); §60.12 (Circumvention); §60.13 (Monitoring Requirements); §60.14 (Modification); §60.15 (Reconstruction); §60.16 (Priority List); §60.17 (Incorporations by Reference); §60.18 (General Control Device Requirements); §60.19 (General Notification and Reporting Requirements). The General Provisions are not included in this permit, but can be obtained from the Department upon request.

40 CFR PART 60, SUBPART JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

Source: 73 FR 3591, Jan. 18, 2008, unless otherwise noted.

Emission limitations in 40 CFR 60 Subpart JJJJ					
NOx (g/HP-hr)	CO (g/HP-hr)	VOC (g/HP-hr)	NOx (ppmvd at 15% O2)	CO (ppmvd at 15% O2)	VOC (ppmvd at 15% O2)
2	5	1	150	610	80

Emission limitations or	Compliance	Testing
**May certify to the emission standards for new nonroad SI engines in 40 CFR part 1048 if you have a lean burn engine that uses LPG. **May certify to the emission standards for new nonroad SI engines in 40 CFR part 1048 applicable to engines that are not severe duty engines if you have an engine: a. 75 ≤ x < 373 KW (100 < x < 500 HP) manufactured prior to January 1, 2011; or b. x > 373 KW (500 HP) manufactured prior to July 1, 2010.	(1) Comply by purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified above in (1-3) (a-b) (i-iii). (2) Purchase a non-certified engine and demonstrate compliance with the emission standards according to testing requirement in this subpart and according to: a. Engines 25 HP < x < 500 HP, must keep a maintenance plan and records of conducted maintenance and must maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test. b. Engines greater than 500 HP, same as above in item a. In addition, you must conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first. or Engines that are less than or equal to 500 HP and you purchase a non-certified engine or do not operate and maintain your certified engine: Perform initial performance testing as indicated in this section, but are not required to conduct subsequent performance testing unless the engine is rebuilt (defined in 40 CFR 94.11(a)) or undergoes major repair or maintenance.	(1) Must be conducted within 10% of 100% 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. (2) Cannot conduct performance tests during periods of startup, shutdown, or malfunction as specified in §60.8. If the 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. (3) Conduct 3 separate test runs for each performance test required, as specified in §60.8(f). Each test run must be conducted within 10% of 100% peak (or the highest achievable) load and last at least 1 hour. (4) Follow 40 CFR 60.4244 (d-g) to determine compliance with specific pollutants.

40 CFR PART 63, SUBPART ZZZZ - National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

In accordance with Rule 62-204.800, F.A.C., the following federal regulations in Part 63 of Title 40 of the Code of Federal Regulations were adopted by reference. The original federal rule numbering has been retained.

{Permitting Note: The engines covered by this permit, EU012– EU-015, are regulated as shown in the following table. Only the Section §63.6590 of Subpart ZZZZ is included because of the limited applicability and requirements.}

EU No.	Engine	Rule Applicability
012-015	Four lean burn internal combustion engine/generator sets (Caterpillar Model No. G3520C) that combust landfill or digester gas equivalent to 10% or more of the gross heat input on an annual basis	As defined in 40 CFR 63 NESHAP Subpart ZZZZ, the proposed engines are defined as "new units located at an area source". To comply with the 40 CFR 63 NESHAP Subpart ZZZZ requirements, the installed engines must meet the 40 CFR 60 NSPS Subpart JJJJ requirements for spark ignition engines. No further requirements apply for such engines under 40 CFR 63 NESHAP Subpart ZZZZ.