



State of Utah

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Governor

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Department of
Environmental Quality

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Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

14138

Title V Operating Permit

PERMIT NUMBER: 1700022001

DATE OF PERMIT: December 30, 2010

Date of Last Revision: December 30, 2010

This Operating Permit is issued to, and applies to the following:

Name of Permittee:

Ticaboo Electric Improvement District
PO Box 2111
Lake Powell UT 84533

Permitted Location:

Ticaboo Generation Facility
Ticaboo Electric Improvement District
12 miles north of Bull Frog, near Highway 276
Ticaboo UT 84533

UTM coordinates: 527,029 m Easting, 4,170,746 m Northing
SIC code: 4911 (Electric Services)

UTAH AIR QUALITY BOARD

By:

Prepared By:

M. Cheryl Heying, Executive Secretary

Mr. William Andes

ENFORCEABLE DATES AND TIMELINES

The following dates or timeframes are referenced in
Section I: General Provisions of this permit.

Annual Certification Due:	August 1 and on that date of every calendar year that this permit is in force.
Renewal application due:	June 30, 2015
Permit expiration date:	December 30, 2015
Definition of "prompt":	written notification within 14 days.

ABSTRACT

Ticaboo Generation Facility consists of three electrical generation compression ignition internal combustion engines which fire using number 2 fuel oil. 40 CFR 60, Subpart IIII and 40 CFR 63, Subpart ZZZZ applies to the engines. Ticaboo Generation Facility is an area source for HAPs and a major source of NO_x.

OPERATING PERMIT HISTORY

Permit/Activity	Date Issued	Recorded Changes
Title V initial application (Project #OPP0141380001)	12/30/2010	Additions: Initial Title V

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Issued under authority of Utah Code Ann. Section 19-2-104 and 19-2-109.1, and in accordance with Utah Administrative Code R307-415 Operating Permit Requirements.

All definitions, terms and abbreviations used in this permit conform to those used in Utah Administrative Code R307-101 and R307-415 (Rules), and 40 Code of Federal Regulations (CFR), except as otherwise defined in this permit. Unless noted otherwise, references cited in the permit conditions refer to the Rules.

Where a permit condition in Section I, General Provisions, partially recites or summarizes an applicable rule, the full text of the applicable portion of the rule shall govern interpretations of the requirements of the rule. In the case of a conflict between the Rules and the permit terms and conditions of Section II, Special Provisions, the permit terms and conditions of Section II shall govern except as noted in Provision I.M, Permit Shield.

SECTION I: GENERAL PROVISIONS

I.A Federal Enforcement.

All terms and conditions in this permit, including those provisions designed to limit the potential to emit, are enforceable by the EPA and citizens under the Clean Air Act of 1990 (CAA) except those terms and conditions that are specifically designated as "State Requirements". (R307-415-6b)

I.B Permitted Activity(ies).

Except as provided in R307-415-7b(1), the permittee may not operate except in compliance with this permit. (See also Provision I.E, Application Shield)

I.C Duty to Comply.

I.C.1 The permittee must comply with all conditions of the operating permit. Any permit noncompliance constitutes a violation of the Air Conservation Act and is grounds for any of the following: enforcement action; permit termination; revocation and reissuance; modification; or denial of a permit renewal application. (R307-415-6a(6)(a))

I.C.2 It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. (R307-415-6a(6)(b))

I.C.3 The permittee shall furnish to the Executive Secretary, within a reasonable time, any information that the Executive Secretary may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. Upon request, the permittee shall also furnish to the Executive Secretary copies of records required to be kept by this permit or, for information claimed to be confidential, the permittee may furnish such records directly to the EPA along with a claim of confidentiality. (R307-415-6a(6)(e))

I.C.4 This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance shall not stay any permit condition, except as provided under R307-415-7f(1) for minor permit modifications. (R307-415-6a(6)(c))

I.D Permit Expiration and Renewal.

I.D.1 This permit is issued for a fixed term of five years and expires on the date shown under "Enforceable Dates and Timelines" at the front of this permit. (R307-415-6a(2))

I.D.2 Application for renewal of this permit is due on or before the date shown under "Enforceable Dates and Timelines" at the front of this permit. An application may be submitted early for any reason. (R307-415-5a(1)(c))

I.D.3 An application for renewal submitted after the due date listed in I.D.2 above shall be accepted for processing, but shall not be considered a timely application and shall not relieve the permittee of any enforcement actions resulting from submitting a late application. (R307-415-5a(5))

I.D.4 Permit expiration terminates the permittee's right to operate unless a timely and complete renewal application is submitted consistent with R307-415-7b (see also Provision I.E, Application Shield) and R307-415-5a(1)(c) (see also Provision I.D.2). (R307-415-7c(2))

I.E **Application Shield.**

If the permittee submits a timely and complete application for renewal, the permittee's failure to have an operating permit will not be a violation of R307-415, until the Executive Secretary takes final action on the permit renewal application. In such case, the terms and conditions of this permit shall remain in force until permit renewal or denial. This protection shall cease to apply if, subsequent to the completeness determination required pursuant to R307-415-7a(3), and as required by R307-415-5a(2), the applicant fails to submit by the deadline specified in writing by the Executive Secretary any additional information identified as being needed to process the application. (R307-415-7b(2))

I.F **Severability.**

In the event of a challenge to any portion of this permit, or if any portion of this permit is held invalid, the remaining permit conditions remain valid and in force. (R307-415-6a(5))

I.G **Permit Fee.**

I.G.1 The permittee shall pay an annual emission fee to the Executive Secretary consistent with R307-415-9. (R307-415-6a(7))

I.G.2 The emission fee shall be due on October 1 of each calendar year or 45 days after the source receives notice of the amount of the fee, whichever is later. (R307-415-9(4)(a))

I.H **No Property Rights.**

This permit does not convey any property rights of any sort, or any exclusive privilege. (R307-415-6a(6)(d))

I.I **Revision Exception.**

No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit. (R307-415-6a(8))

I.J **Inspection and Entry.**

I.J.1 Upon presentation of credentials and other documents as may be required by law, the permittee shall allow the Executive Secretary or an authorized representative to perform any of the following:

- I.J.1.a Enter upon the permittee's premises where the source is located or emissions related activity is conducted, or where records are kept under the conditions of this permit. (R307-415-6c(2)(a))
- I.J.1.b Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit. (R307-415-6c(2)(b))
- I.J.1.c Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practice, or operation regulated or required under this permit. (R307-415-6c(2)(c))
- I.J.1.d Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with this permit or applicable requirements. (R307-415-6c(2)(d))
- I.J.2 Any claims of confidentiality made on the information obtained during an inspection shall be made pursuant to Utah Code Ann. Section 19-1-306. (R307-415-6c(2)(e))

I.K Certification.

Any application form, report, or compliance certification submitted pursuant to this permit shall contain certification as to its truth, accuracy, and completeness, by a responsible official as defined in R307-415-3. This certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. (R307-415-5d)

I.L Compliance Certification.

- I.L.1 Permittee shall submit to the Executive Secretary an annual compliance certification, certifying compliance with the terms and conditions contained in this permit, including emission limitations, standards, or work practices. This certification shall be submitted no later than the date shown under "Enforceable Dates and Timelines" at the front of this permit, and that date each year following until this permit expires. The certification shall include all the following (permittee may cross-reference this permit or previous reports): (R307-415-6c(5))
 - I.L.1.a The identification of each term or condition of this permit that is the basis of the certification;
 - I.L.1.b The identification of the methods or other means used by the permittee for determining the compliance status with each term and condition during the certification period. Such methods and other means shall include, at a minimum, the monitoring and related recordkeeping and reporting requirements in this permit. If necessary, the permittee also shall identify any other material information that must be included in the certification to comply with section 113(c)(2) of the Act, which prohibits knowingly making a false certification or omitting material information;
 - I.L.1.c The status of compliance with the terms and conditions of the permit for the period covered by the certification, including whether compliance during the period was continuous or intermittent. The certification shall be based on the method or means designated in Provision I.L.1.b. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred; and
 - I.L.1.d Such other facts as the Executive Secretary may require to determine the compliance status.

I.L.2 The permittee shall also submit all compliance certifications to the EPA, Region VIII, at the following address or to such other address as may be required by the Executive Secretary: (R307-415-6c(5)(d))

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
1595 Wynkoop Street
Denver, CO 80202-1129

I.M Permit Shield.

I.M.1 Compliance with the provisions of this permit shall be deemed compliance with any applicable requirements as of the date of this permit, provided that:

I.M.1.a Such applicable requirements are included and are specifically identified in this permit, or (R307-415-6f(1)(a))

I.M.1.b Those requirements not applicable to the source are specifically identified and listed in this permit. (R307-415-6f(1)(b))

I.M.2 Nothing in this permit shall alter or affect any of the following:

I.M.2.a The emergency provisions of Utah Code Ann. Section 19-1-202 and Section 19-2-112, and the provisions of the CAA Section 303. (R307-415-6f(3)(a))

I.M.2.b The liability of the owner or operator of the source for any violation of applicable requirements under Utah Code Ann. Section 19-2-107(2)(g) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b))

I.M.2.c The applicable requirements of the Acid Rain Program, consistent with the CAA Section 408(a). (R307-415-6f(3)(c))

I.M.2.d The ability of the Executive Secretary to obtain information from the source under Utah Code Ann. Section 19-2-120, and the ability of the EPA to obtain information from the source under the CAA Section 114. (R307-415-6f(3)(d))

I.N Emergency Provision.

I.N.1 An "emergency" is any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error. (R307-415-6g(1))

I.N.2 An emergency constitutes an affirmative defense to an action brought for noncompliance with such technology-based emission limitations if the affirmative defense is demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

I.N.2.a An emergency occurred and the permittee can identify the causes of the emergency. (R307-415-6g(3)(a))

I.N.2.b The permitted facility was at the time being properly operated. (R307-415-6g(3)(b))

- I.N.2.c During the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in this permit. (R307-415-6g(3)(c))
- I.N.2.d The permittee submitted notice of the emergency to the Executive Secretary within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken. This notice fulfills the requirement of Provision I.S.2.c below. (R307-415-6g(3)(d))
- I.N.3 In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency has the burden of proof. (R307-415-6g(4))
- I.N.4 This emergency provision is in addition to any emergency or upset provision contained in any other section of this permit. (R307-415-6g(5))

I.O **Operational Flexibility.**

Operational flexibility is governed by R307-415-7d(1).

I.P **Off-permit Changes.**

Off-permit changes are governed by R307-415-7d(2).

I.Q **Administrative Permit Amendments.**

Administrative permit amendments are governed by R307-415-7e.

I.R **Permit Modifications.**

Permit modifications are governed by R307-415-7f.

I.S **Records and Reporting.**

I.S.1 Records.

I.S.1.a The records of all required monitoring data and support information shall be retained by the permittee for a period of at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-charts or appropriate recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. (R307-415-6a(3)(b)(ii))

I.S.1.b For all monitoring requirements described in Section II, Special Provisions, the source shall record the following information, where applicable: (R307-415-6a(3)(b)(i))

I.S.1.b.1 The date, place as defined in this permit, and time of sampling or measurement.

I.S.1.b.2 The date analyses were performed.

I.S.1.b.3 The company or entity that performed the analyses.

I.S.1.b.4 The analytical techniques or methods used.

I.S.1.b.5 The results of such analyses.

- I.S.1.b.6 The operating conditions as existing at the time of sampling or measurement.
- I.S.1.c Additional record keeping requirements, if any, are described in Section II, Special Provisions.
- I.S.2 Reports.
 - I.S.2.a Monitoring reports shall be submitted to the Executive Secretary every six months, or more frequently if specified in Section II. All instances of deviation from permit requirements shall be clearly identified in the reports. (R307-415-6a(3)(c)(i))
 - I.S.2.b All reports submitted pursuant to Provision I.S.2.a shall be certified by a responsible official in accordance with Provision I.K of this permit. (R307-415-6a(3)(c)(i))
 - I.S.2.c The Executive Secretary shall be notified promptly of any deviations from permit requirements including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventative measures taken. Prompt, as used in this condition, shall be defined as written notification within the number of days shown under "Enforceable Dates and Timelines" at the front of this permit. Deviations from permit requirements due to unavoidable breakdowns shall be reported in accordance with the provisions of R307-107. (R307-415-6a(3)(c)(ii))
- I.S.3 Notification Addresses.
 - I.S.3.a All reports, notifications, or other submissions required by this permit to be submitted to the Executive Secretary are to be sent to the following address or to such other address as may be required by the Executive Secretary:

Utah Division of Air Quality
P.O. Box 144820
Salt Lake City, UT 84114-4820
Phone: 801-536-4000
 - I.S.3.b All reports, notifications or other submissions required by this permit to be submitted to the EPA should be sent to one of the following addresses or to such other address as may be required by the Executive Secretary:

For annual compliance certifications:

Environmental Protection Agency, Region VIII
Office of Enforcement, Compliance and Environmental Justice
(mail code 8ENF)
1595 Wynkoop Street
Denver, CO 80202-1129

For reports, notifications, or other correspondence related to permit modifications, applications, etc.:

Environmental Protection Agency, Region VIII
Office of Partnerships & Regulatory Assistance Air & Radiation Program (mail code 8P-AR)
1595 Wynkoop Street
Denver, CO 80202-1129
Phone: 303-312-6440

I.T Reopening for Cause.

I.T.1 A permit shall be reopened and revised under any of the following circumstances:

I.T.1.a New applicable requirements become applicable to the permittee and there is a remaining permit term of three or more years. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the terms and conditions of this permit have been extended pursuant to R307-415-7c(3), application shield. (R307-415-7g(1)(a))

I.T.1.b The Executive Secretary or EPA determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit. (R307-415-7g(1)(c))

I.T.1.c EPA or the Executive Secretary determines that this permit must be revised or revoked to assure compliance with applicable requirements. (R307-415-7g(1)(d))

I.T.1.d Additional applicable requirements are to become effective before the renewal date of this permit and are in conflict with existing permit conditions. (R307-415-7g(1)(e))

I.T.2 Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the Acid Rain Program. Upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into this permit. (R307-415-7g(1)(b))

I.T.3 Proceedings to reopen and issue a permit shall follow the same procedures as apply to initial permit issuance and shall affect only those parts of this permit for which cause to reopen exists. (R307-415-7g(2))

I.U Inventory Requirements.

An emission inventory shall be submitted in accordance with the procedures of R307-150, Emission Inventories. (R307-150)

I.V Title IV and Other, More Stringent Requirements

Where an applicable requirement is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, Acid Deposition Control, both provisions shall be incorporated into this permit. (R307-415-6a(1)(b))

SECTION II: SPECIAL PROVISIONS

- II.A **Emission Unit(s) Permitted to Discharge Air Contaminants.**
(R307-415-4(3)(a) and R307-415-4(4))
- II.A.1 **Permitted Source**
 Source-wide
- II.A.2 **Engine 1**
 Non-emergency diesel fired engine rated at approximately 749 bhp constructed prior to July 11, 2005 and installed in 2009. All emissions shall be vented vertically unrestricted. Stack height shall be no less than 27 feet as measured from the base of the stack.
- II.A.3 **Engine 2**
 Non-emergency diesel fired engine rated at approximately 1,322 bhp constructed after July 11, 2005; and manufactured after April 1, 2006 and after June 12, 2006. Engine displacement is less than 10 L/cylinder. All emissions shall be vented vertically unrestricted. Stack height shall be no less than 27 feet as measured from the base of the stack.
- II.A.4 **Engine 3**
 Non-emergency diesel fired engine rated at approximately 2,282 bhp constructed after July 11, 2005; and manufactured after April 1, 2006 and after June 12, 2006. Engine displacement is less than 10L/cylinder. All emissions shall be vented vertically unrestricted. Stack height shall be no less than 27 feet as measured from the base of the stack.
- II.A.5 **Diesel Tanks**
 Two diesel fuel storage tanks (each 15,000 gallons and built in 1979) and two diesel fuel day tanks. No unit specific applicable requirements.
- II.B **Requirements and Limitations**
- The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated:
- II.B.1 **Conditions on Permitted Source.**
- II.B.1.a **Condition:**
- Unless otherwise specified, at all times, including periods of startup, shutdown, and malfunction, the permittee shall, to the extent practicable, maintain and operate any permitted plant equipment, including associated air pollution control equipment, in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. [Origin: DAQE-AN0141380003-09]. [R307-401-8(1)(a)(BACT), R307-401-8(2)]
- II.B.1.a.1 **Monitoring:**
- Records required for this permit condition will serve as monitoring.

- II.B.1.a.2 **Recordkeeping:**
- Permittee shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.1.a.3 **Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.1.b **Condition:**
- The permittee shall comply with the applicable requirements for servicing of motor vehicle air conditioners pursuant to 40 CFR 82, Subpart B: Servicing of Motor Vehicle Air Conditions. [Origin: 40 CFR 82, Subpart B]. [40 CFR 82.30(b)]
- II.B.1.b.1 **Monitoring:**
- The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart B.
- II.B.1.b.2 **Recordkeeping:**
- All records required in 40 CFR 82, Subpart B shall be maintained consistent with the requirements of Provision I.S.1 of this permit.
- II.B.1.b.3 **Reporting:**
- All reports required in 40 CFR 82, Subpart B shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.
- II.B.1.c **Condition:**
- The permittee shall comply with the applicable requirements for recycling and emission reduction for class I and class II refrigerants pursuant to 40 CFR 82, Subpart F: Recycling and Emissions Reduction. [Origin: 40 CFR 82, Subpart F]. [40 CFR 82.150(b)]
- II.B.1.c.1 **Monitoring:**
- The permittee shall certify, in the annual compliance statement required in Section I of this permit, its compliance status with the requirements of 40 CFR 82, Subpart F.
- II.B.1.c.2 **Recordkeeping:**
- All records required in 40 CFR 82, Subpart F shall be maintained consistent with the requirements of Provision I.S.1 of this permit.
- II.B.1.c.3 **Reporting:**
- All reports required in 40 CFR 82, Subpart F shall be submitted as required. There are no additional reporting requirements except as outlined in Section I of this permit.

II.B.1.d Condition:

Sulfur content of the diesel fuel combusted shall be no greater than 0.05% by weight, except where otherwise noted in this permit. [Origin: DAQE-AN0141380003-09]. [R307-401-8(1)(a)(BACT)]

II.B.1.d.1 Monitoring:

For each delivery of oil, the permittee shall either:

- (1) Determine the fuel sulfur content expressed as wt% in accordance with the methods of the American Society for Testing Materials (ASTM);
- (2) Inspect the fuel sulfur content expressed as wt% determined by the vendor using methods of the ASTM; or
- (3) Inspect documentation provided by the vendor that indirectly demonstrates compliance with this provision.

II.B.1.d.2 Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.d.3 Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.e Condition:

Total emissions of NO_x shall not exceed 188.2 tons/rolling 12-month period. [Origin: DAQE-AN0141380003-09]. [R307-401-8(1)(a)(BACT)]

II.B.1.e.1 Monitoring:

Emissions shall be calculated by multiplying the lb/gal NO_x emission factor for each engine by the amount of fuel combusted in each engine each month. By the 20th day of each month, a new rolling 12-month emission total shall be calculated using the data from the previous 12 months.

II.B.1.e.2 Recordkeeping:

Records of monthly fuel use and NO_x calculations shall be kept. Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.e.3 Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.1.f Condition:

Emissions from the diesel engines shall be no greater than 20% opacity, except for operation not exceeding 3 minutes in any hour. [Origin: R307-201-3(5)]. [R307-201-3(5)]

II.B.1.f.1

Monitoring:

A visual observation of each affected emission unit shall be performed on a monthly basis, while the unit is operating, by an individual trained on the observation procedures of 40 CFR 60, Appendix A, Method 9. If visible emissions other than condensed water vapor are observed from the emission unit, an opacity determination of that emission unit shall be performed by a certified observer within 24 hours of the initial visual emission observation. The opacity determination shall be performed in accordance with 40 CFR 60, Appendix A, Method 9.

II.B.1.f.2

Recordkeeping:

The permittee shall keep a log which includes the location and description of each affected emission unit. For each affected emission unit, the log shall include either: a) the date of the opacity observation and if visual emission other than condensed water vapor was observed or b) a note that the emission unit was not operated. For each observed visual emission, other than condensed water vapor, the permittee shall record: date and time of visual emission observation, emission unit location and description, time and date of opacity determination, and percent opacity. The records required by this provision and all data required by 40 CFR 60, Appendix A, Method 9 shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.f.3

Reporting:

There are no reporting requirements except for those in Section I of this permit.

II.B.2

Conditions on Engine 1

II.B.2.a

Condition:

This condition becomes effective May 3, 2013.

- 1) The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63, Subpart ZZZZ. [Origin: 40 CFR 63.6665]
- 2) Except during startup, CO emissions shall not exceed 23 ppmvd at 15% O₂. [Origin: 40 CFR 63.6603(a) & Table 2d(3)]
- 3) During periods of startup the source must minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the non-startup emission limitation applies. [Origin: 40 CFR 63.6603(a)]
- 4) The permittee shall comply with any operating limits approved by the Administrator. [Origin: 40 CFR 3.6603(a) & Table 2b(2)]. [40 CFR 63 Subpart ZZZZ]

II.B.2.a.1

Monitoring:

1) The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63, Subpart ZZZZ. [40 CFR 63.6665]

2) Within 180 days of May 3, 2013, and in accord with 40 CFR 63.7(a)(2), the initial CO compliance test shall be conducted. [40 CFR 63.6612]

- a) Frequency - After the initial test, emissions shall be tested every 8760 hours of operation or once every three years, whichever comes first. [40 CFR 63.6615]
- b) Notification - At least 60 days before the test, the source shall notify the Executive Secretary of the date, time, and place of testing and provide a copy of the test protocol. The source shall attend a pretest conference if determined necessary by the Executive Secretary. Test protocol shall be approved by the Executive Secretary. [40 CFR 63.6645(g)]
- c) Methods:

- i) Sample port location and number of traverse points - Method 1 or 1A, 40 CFR 60, Appendix A or other method approved by the Executive Secretary. [Table 4(3)(a)(i)]
 - ii) CO Concentration - Method 10, 40 CFR 60, Appendix A or other method approved by the Executive Secretary. Concentration to be reported at 15% O₂, dry basis. Results of this test consist of the average of the three 1-hour long runs. [Table 4(3)(a)(v)]
 - d) Engine percent load during test must be determined and documented in accord with 40 CFR 63.6620(i).
 - e) Permittee shall demonstrate continuous compliance by:
 - i) Collecting the approved operating parameter (if any) data according to 40 CFR 63.6625(b); and
 - ii) Reducing these data to 4-hour rolling averages; and
 - iii) Maintaining the 4-hour rolling averages within the operating limitations for the operating parameters established during the performance test. [40 CFR 63.6640(a) and Table 6 (11)]
- 3) The source shall petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitation. Initial performance tests shall not be conducted until the petition is approved. The petition shall contain information required in 40 CFR 63.6620(g) or 40 CFR 63.6620(h). [40 CFR 63.6620(f)]
- 4) During the initial performance test, each operating limitation approved by the Administrator shall be established. [40 CFR 63.6630(b)].

II.B.2.a.2

Recordkeeping:

- 1) The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 8 of 40 CFR 63, Subpart ZZZZ. [40 CFR 63.6665]
- 2) Results of testing shall be maintained in accordance with Provision I.S.1 of this permit. Records shall also comply with the applicable sections of 40 CFR 63.6660 and 63.6655 (a) and (d).

II.B.2.a.3

Reporting:

The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in 40 CFR 63, Subpart ZZZZ [40 CFR 63.6665]. The permittee shall also report each instance in which it did not meet the applicable requirements in Table 8 [40 CFR 63.6640(e)]

The results of testing shall be submitted to the Executive Secretary within 60 days of completion of the testing. The submittal shall clearly identify results and indicate compliance status. The annual compliance certification required by Provision L in Section I of this permit shall use the most recent test results as a basis for stating compliances status for this limitation.

The permittee shall submit the Notification of Compliance Status containing the results of the initial compliance demonstration according to the requirements in 40 CFR 63.6645. [40 CFR 63.6630(c)]

The permittee shall report each instance in which the emission limitation or operating limitation is not met. The permittee shall report each instance in which the applicable requirements of Table 8 are not met. [40 CFR 63.6640 (b) & (e)]

Notifications meeting the requirements of 40 CFR 63.6645(h); 40 CFR 63.7(b) and (c); 63.9(b)(2); 63.9(c), (d), (e), and (h) shall be submitted as specified and applicable. [40 CFR 63.6645 (a) & (h)]

Compliance reports meeting the requirements of 40 CFR 63.6650 shall be submitted as applicable.

II.B.2.b Condition:

This condition becomes effective May 3, 2013. Diesel fuel shall meet the requirements of 40 CFR 80.510(b) for nonroad diesel fuel. [Origin: 40 CFR 63.6604]. [40 CFR 63 Subpart ZZZZ]

II.B.2.b.1 Monitoring:

For each delivery of diesel fuel, the permittee shall inspect documentation provided by the vendor that demonstrates compliance with this provision.

II.B.2.b.2 Recordkeeping:

The permittee shall maintain documentation demonstrating compliance with the condition. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.2.b.3 Reporting:

Reporting requirements shall be in accordance with Section I of this permit. The permittee shall report each instance a delivery did not meet this condition.

II.B.2.c Condition:

This condition becomes effective May 3, 2013. At all times the permittee shall operate and maintain the engine, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Executive Secretary which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source. [Origin: 40 CFR 63.6605(b)]. [40 CFR 63 Subpart ZZZZ]

II.B.2.c.1 Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.2.c.2 Recordkeeping:

The permittee shall document activities performed to assure proper operation and maintenance. Recordkeeping shall be in accordance with 40 CFR 63.6655, 40 CFR 63.6660, and Provision I.S.1 of this permit.

II.B.2.c.3 Reporting:

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.2.d Condition:

This condition becomes effective May 3, 2013. If the engine is not equipped with a closed crankcase ventilation system, the permittee shall comply with either paragraph (g)(1) or paragraph (g)(2) of 40 CFR 63.6625(g). The permittee shall follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. [Origin: 40 CFR 63.6625(g)]. [40 CFR 63 Subpart ZZZZ]

- II.B.2.d.1 Monitoring:**
- Records required for this permit condition will serve as monitoring.
- II.B.2.d.2 Recordkeeping:**
- Operating and maintenance records shall be maintained to demonstrate compliance and in accordance with Section I.S.1 of this permit.
- II.B.2.d.3 Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.3 Condition on Engine 2**
- II.B.3.a Condition:**
- Beginning October 1, 2010, the sulfur content of any diesel fuel burned shall meet the requirements of 40 CFR 80.150(b) for non-road engines. [Origin: 40 CFR 60, Subpart IIII]. [40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ]
- II.B.3.a.1 Monitoring:**
- For each delivery of oil, the permittee shall inspect documentation provided by the vendor that demonstrates compliance with this provision.
- II.B.3.a.2 Recordkeeping:**
- Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.
- II.B.3.a.3 Reporting:**
- There are no reporting requirements for this provision except those specified in Section I of this permit.
- II.B.3.b Condition:**
- Permittee purchased an engine certified by the manufacturer to the emission standards in 40 CFR 60.4201. The engine must be installed and configured according to the manufacturer's specifications. The permittee must operate and maintain the CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. If the CI ICE is equipped with a diesel particulate filter, the filter must be installed with a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached. Records must be kept of corrective action taken after the backpressure monitor has notified the permittee. [Origin: 40 CFR 60, Subpart IIII]. [40 CFR 60.4211(c), 40 CFR 60.4206, 40 CFR 60.4209(b), 40 CFR 60.4214(c)]
- II.B.3.b.1 Monitoring:**
- Required recordkeeping will serve as monitoring.
- II.B.3.b.2 Recordkeeping:**
- Recordkeeping shall be maintained in accordance with the Provision of I.S.1 of this permit.

II.B.3.c **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4 **Condition on Engine 3**

II.B.4.a **Condition:**

Beginning October 1, 2010, the sulfur content of any diesel fuel burned shall meet the requirements of 40 CFR 80.150(b) for non-road engines. [40 CFR 60, Subpart III]. [40 CFR 60.4207(b), 40 CFR 63 Subpart ZZZZ]

II.B.4.a.1 **Monitoring:**

For each delivery of oil, the permittee shall inspect documentation provided by the vendor that demonstrates compliance with this provision.

II.B.4.a.2 **Recordkeeping:**

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.4.a.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4.b **Condition:**

Permittee must purchase an engine certified by the manufacturer to the emission standards in 40 CFR 60.4201. The engine must be installed and configured according to the manufacturer's specifications. The permittee must operate and maintain the CI ICE according to the manufacturer's written instructions or procedures developed by the owner or operator that are approved by the engine manufacturer, over the entire life of the engine. If the CI ICE is equipped with a diesel particulate filter, the filter must be installed with a backpressure monitor that notifies the permittee when the high backpressure limit of the engine is approached. Records must be kept of corrective action taken after the backpressure monitor has notified the permittee. [Origin: 40 CFR 60, Subpart III]. [40 CFR 60.4209(b), 40 CFR 60.4206, 40 CFR 60.4214(c), 40 CFR 60.4211(c)]

II.B.4.b.1 **Monitoring:**

Recordkeeping shall serve as monitoring.

II.B.4.b.2 **Recordkeeping:**

Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.4.b.3 **Reporting:**

There are no reporting requirements for this provision except those specified in Section I of this permit.

II.C **Emissions Trading**
(R307-415-6a(10))

Not applicable to this source.

II.D

Alternative Operating Scenarios.
(R307-415-6a(9))

Not applicable to this source.

SECTION III: PERMIT SHIELD

A permit shield was not granted for any specific requirements.

SECTION IV: ACID RAIN PROVISIONS

IV.A **This source is not subject to Title IV. This section is not applicable.**

REVIEWER COMMENTS

This operating permit incorporates all applicable requirements contained in the following documents:

Incorporates	DAQE-AN0141380003-09 dated September 17, 2009
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1. Comment on an item originating in 40 CFR 63, Subpart A regarding Permitted Source Area source of HAP: The PTE estimate for facility wide total organic HAPs is 0.195 TYP, as re-calculated from the permit application, based on AP-42 emission factors and no restrictions on engine operating hours, and includes engine 3, even though engine 3 is not yet installed. On this basis the facility is considered an area source of HAPs. [Last updated December 22, 2010]
2. Comment on an item originating in 40 CFR 64 regarding Permitted Source CAM compliance: CAM requirements were reviewed, there are no CAM requirements in this permit. [Last updated October 11, 2010]
3. Comment on an item originating in 40 CFR 60, Subpart IIII regarding Permitted Source Compliance with 40 CFR 60, Subpart IIII: Caterpillar 3412 DITA (Engine 1) was ordered prior to July 11, 2005 and therefore this subpart is not applicable. Cummins 1000 DQFAD (Engine 2) was ordered after July 11, 2005 and manufactured after April 1, 2006 and therefore this subpart is applicable. [Last updated October 11, 2010]
4. Comment on an item originating in 40 CFR 63, Subpart ZZZZ regarding Permitted Source Compliance with 40 CFR 63, Subpart ZZZZ: Caterpillar 3412C DITA (Engine 1) was manufactured in 2000 and therefore is existing for this subpart and is subject to certain requirements of 40 CFR 63, Subpart ZZZZ effective May 3, 2013 on the basis of recent revisions to ZZZZ at 40 CFR 63.6595(a)(1), published in the Federal Register on March 3, 2010. Cummins 1000 DQFAD (Engine 2) was manufactured after June 12, 2006, and therefore is new for this subpart. As provide for in 40 CFR 63.6590(c)(1), since the source is an area source of HAPs, engine 2 meets the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. [Last updated December 22, 2010]
5. Comment on an item originating in 40 CFR 63, Subpart ZZZZ regarding Engine 1 Compliance with Table 2d(3): Engine has no pollution control equipment therefore the option to reduce CO emissions 70% is not discussed. If the source can not meet the CO concentration and needs to install control equipment, an NOI and Approval Order will be necessary. The title V would subsequently be modified. [Last updated October 11, 2010]
6. Comment on an item originating in DAQE-AN0141380003-09 regarding Engine 3 Installation status: This engine is not purchased or installed at this time. However, the application indicates that when it is purchased that 40 CFR 60, Subpart IIII will apply and the engine will be new under 40 CFR 63, Subpart ZZZZ. As provided for in 40 CFR 63.6590(c)(1), since this source is an area source of HAPs, engine 3 will meet the requirements of 40 CFR 63, Subpart ZZZZ by meeting the requirements of 40 CFR 60, Subpart IIII. [Last updated December 22, 2010]