



State of Utah

SPENCER J. COX
Governor

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Lieutenant Governor

Department of
Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

10209

Title V Operating Permit

PERMIT NUMBER: 1300039005 -DRAFT

DATE OF PERMIT: TBD

Date of Last Revision: TBD

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

Name of Permittee:

Kinder Morgan Altamont LLC
1667 Cole Blvd Suite 300 Suite 300
Lakewood, CO 80401

Permitted Location:

Altamont East Compressor Station
P O Box 587
Altamont, UT 84001

UTM coordinates: 564,020 m Easting, 4,467,280 m Northing
SIC code: 1311 (Crude Petroleum & Natural Gas)

By:

Bryce C. Bird, Director

Prepared By:

Jared Crosby
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Jared Crosby

ENFORCEABLE DATES AND TIMELINES

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

Annual Certification Due: March 1, and on that date of every calendar year that this permit is in force.

Renewal application due: TBD

Permit expiration date: TBD

Definition of “prompt”: written notification within 14 days.

ABSTRACT

The East compressor station, located approximately two miles east of Altamont, receives and compresses natural gas from the Altamont field. The equipment at this source consists of five compressor units, dehydration equipment, flare, and various tanks. This source is subject to 40 CFR 63 Subparts A (General Provisions), HH (National Emissions Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities), ZZZZ (National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines), 40 CFR Part 60 Subparts A (General Provisions), Subpart JJJJ (Standards of Performance for Stationary Spark Ignition Internal Combustion Engines), Subpart OOOO (Standards of Performance for Crude Oil and Natural Gas Production, Transmission and Distribution), R307-501 (Oil and Gas Industry: General Provisions), and R307-503 (Oil and Gas Industry: Flares). The East compressor station is a major source of NO_x and an area source of Hazardous Air Pollutants (HAPs).

OPERATING PERMIT HISTORY

Permit/Activity	Date Issued	Recorded Changes
Title V renewal application (Project #OPP0102090014)	TBD	Changes: The renewal permit makes updates to the subpart HH conditions, changes to the monitoring and recordkeeping for the emergency flare, corrections to the subpart ZZZZ conditions, and typographical and formatting corrections.
Title V renewal application (Project #OPP0102090013)	11/21/2016	Changes: Renewal
Title V significant modification (Project #OPP0102090012)	03/10/2016	<p>Changes: Update permit per issuance of AO DAQE-AN102090008-15.</p> <p>-Modify Dehydrator and Reboiler description (TEG-1).</p> <p>-Add leak detection requirements for newly added and modified fugitive emissions sources.</p> <p>-Add Combustor (C-1) to TEG-1.</p> <p>-Add submerged loading requirements for condensate loading.</p> <p>-Add 4SRB Engine (CE-5) approximately 1,680 hp, a/f controller, catalyst, and compressor. -Add 40 CFR Part 60 Subpart JJJJ requirements for remote stationary RICE for Compressor engine CE-5.</p> <p>-Add 40 CFR Part 60 Subpart OOOO requirements for the CE-5 compressor.</p> <p>- Add requirements from R307-501 (Oil and Gas Industry: General Provisions). -Add requirements from R307-503 (Oil and Gas Industry: Flares).</p>
Title V reopening for cause by DAQ (Project #OPP0102090007)	11/07/2013	Changes: Incorporate the requirements of 40 CFR 63 Subpart ZZZZ National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines. Removed the flare from the "Natural Gas Burning Equipment" description in Section II.A.2 and flare opacity changed to 20% based on AO site-wide opacity. Minor administrative changes.
Title V administrative amendment - enhanced AO (Project #OPP0102090006)	04/16/2012	Additions: Increased condensate production limits to 2,000,000 gals per 12-month rolling period as stated in the most recent approval order (AO) (DAQE-AN0102090005-10). Opacity for natural gas burning equipment was reduced to 10% as per AO. Emergency generator was removed from the equipment list because it was removed

		<p>from the station.</p> <p>Changes: VOC was removed from abstract because it is no longer a major source of VOCs based on recent potential to emit numbers.</p>
Title V renewal application (Project #OPP0102090005)	01/19/2012	<p>Additions: Increased condensate production limits to 2,000,000 gals per 12-month rolling period as stated in the most recent approval order (AO) (DAQE-AN0102090005-10). Opacity for natural gas burning equipment was reduced to 10% as per AO. Emergency generator was removed from the equipment list because it was removed from the station.</p> <p>Changes: VOC was removed from abstract because it is no longer a major source of VOCs based on recent potential to emit numbers.</p>
Title V renewal application (Project #OPP0102090002)	10/01/2003	
Title V initial application (Project #OPP0102090001)	08/26/1998	

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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 Director, within a reasonable time, any information that the Director 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 Director 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 Director 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 Director 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 Director 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 Director 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 Director 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 Director 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 Director: (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)(a)(xiii) and Section 19-2-110 prior to or at the time of issuance of this permit. (R307-415-6f(3)(b)). [R307-415-6f]

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 Director 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 Director 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 Director 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 Director 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 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 Director are to be sent to the following address or to such other address as may be required by the Director:
- 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 Director:
- 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
Air Permitting and Monitoring Branch (mail code 8ARD-PM)
1595 Wynkoop Street
Denver, CO 80202-1129
Phone: 303-312-6927

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 Director 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 Director 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 Natural Gas Burning Equipment**
Includes line heater, Reboiler Heater Exhaust Vent (TEG-2), and RICE natural gas compressor engines (CE1-CE5).
- II.A.3 Flare**
Emergency flare with knock out and natural gas pilot.
- II.A.4 Line Heater (LH)**
Approximately 2,000,000 BTU/hr, natural gas fired. No unit-specific applicable requirements.
- II.A.5 Dehydrator and Reboiler (TEG-1)**
Designed to treat up to 25 MMscf/day of wet gas. Includes contactor, glycol pump, flash separator, TEG regenerator (reboiler), BTEX condenser unit (BCU), and Combustor (C-1). Off gas from the flash tank is recycled or recompressed. The source is not located in a UA plus offset boundary or a UC boundary. Potential to emit ≤ 0.90 megagram per year [1.0 ton/year] benzene (due to the combustor (C-1) installation). Includes still for the triethylene glycol dehydration process.
- II.A.6 Reboiler Burner Exhaust Vent (TEG-2)**
Natural gas fired heater that provides heat for the triethylene glycol regeneration process. Combustion gases are exhausted through the burner exhaust vent. The design capacity is 1.0 MM BTU/hr. No unit-specific applicable requirements.
- II.A.7 RICE Natural Gas Compressor Engine (CE-1)**
Natural-gas fired reciprocating internal combustion engine, two-stroke lean-burn (2SLB), approximately 1,350 hp. Constructed during a period of exemption for natural gas burning equipment (Code of Air Conservation Regulations, 1972, 1.3.7). Subject to 40 CFR 63 Subpart ZZZZ.
- II.A.8 RICE Natural Gas Compressor Engine (CE-2)**
Natural-gas fired reciprocating internal combustion engine, four-stroke rich-burn (4SRB), approximately 1,030 hp. Constructed during a period of exemption for natural gas burning equipment (Code of Air Conservation Regulations, 1972, 1.3.7). Subject to 40 CFR 63 Subpart ZZZZ.
- II.A.9 RICE Natural Gas Compressor Engine (CE-3)**
Natural-gas fired reciprocating internal combustion engine, four-stroke rich-burn (4SRB), approximately 1,030 hp. Constructed during a period of exemption for natural gas burning equipment (Code of Air Conservation Regulations, 1972, 1.3.7). Subject to 40 CFR 63 Subpart ZZZZ.
- II.A.10 RICE Natural Gas Compressor Engine (CE-4)**
Natural-gas fired reciprocating internal combustion engine, two-stroke lean-burn (2SLB), approximately 1,800 hp. Constructed during a period of exemption for natural gas burning equipment (Code of Air Conservation Regulations, 1972, 1.3.7). Subject to 40 CFR 63 Subpart ZZZZ.
- II.A.11 RICE Natural Gas Engine & Compressor (CE-5)**
Natural-gas fired reciprocating internal combustion engine, 4SRB, approximately 1,680 hp. The engine stack height must be at least 30 feet from the ground. Subject to 40 CFR 60 Subparts A and JJJJ and 40

CFR 63 Subparts A and ZZZZ. Has an air-fuel ratio controller and non-selective catalytic reduction unit. Compressor is subject to 40 CFR 60 Subparts A and OOOO.

II.A.12 **Tanks (Group)**

Includes the below described Pit Tank, Condensate Tanks (T-2, T-3), and Methanol Storage Tank (T-4).

II.A.13 **Pit Tank**

Approximately 16,800 gallon capacity. Non-NSPS applicability (constructed before applicability date).

II.A.14 **Condensate Tanks (T-2, T-3)**

Two (2) condensate tanks with approximately 16,800 gallon capacity. Non-NSPS applicability (constructed before applicability date).

II.A.15 **Methanol Storage Tank (T-4)**

Approximately 4,200 gallons capacity. Non-NSPS applicability (constructed before applicability date).

II.A.16 **Truck Loading (Condensate)**

Truck loading rack designed for submerged loading of condensate.

II.A.17 **RICE Natural Gas Compressor Engines (CE-1-CE-4)**

Includes the Natural-Gas Fired Internal Combustion engines CE-1, CE-2, CE-3, and CE-4. Not subject to 40 CFR 60 Subpart OOOO or 40 CFR 60 Subpart JJJJ (constructed before applicability date).

II.B **Requirements and Limitations**

The following emission limitations, standards, and operational limitations apply to the permitted facility as indicated: [R307-415-6a]

II.B.1 **Conditions on Permitted Source.**

II.B.1.a **Condition:**

At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any permitted 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 Director which may include, but is not limited to, monitoring results, infrared camera images*, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on permitted equipment shall be recorded.

*The "infrared camera images" provision occurs in R307-501-4(1)(c) only, but not in R307-401-8(2).

[Origin: DAQE-AN0102090008-15; R307-501-4(1)(c); and 40 CFR Part 60.11(d)]. [R307-401-4(1); R307-401-8(2); R307-501-4(1)(c); and 40 CFR Part 60, Subpart A]

All air pollution control equipment shall be operated and maintained pursuant to the manufacturing specifications or equivalent to the extent practicable and consistent with technological limitations and good engineering and maintenance practices.

[Origin: R307-501-4(2)(a)]. [R307-501-4(2)(a)]

In addition, all such air pollution control equipment shall be adequately designed and sized to achieve the control efficiency rates established in rules or in approval orders issued under R307-401 and to handle

reasonably foreseeable fluctuations in emissions of VOCs during normal operations. Fluctuations in emissions that occur when the separator dumps into the tank are reasonably foreseeable.

[Origin: R307-501-4(2)(c)]. [R307-501-4(2)(c)]

All crude oil, condensate, and intermediate hydrocarbon liquids collection, storage, processing and handling operations, regardless of size, shall be designed, operated and maintained so as to minimize emission of volatile organic compounds to the atmosphere to the extent reasonably practicable.

[Origin: R307-501-4(a)]. [R307-501-4(a)]

II.B.1.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.1.a.2

Recordkeeping:

The permittee shall keep manufacturer specifications or equivalent on file, and 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:

Condensate production shall not exceed 4,250,000 gallons per rolling 12-month total [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.1.b.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.1.b.2

Recordkeeping:

The owner/operator shall calculate a 12-month total by the twentieth day of each month using data from the previous 12 months. Records of production shall be kept for all periods when the plant is in operation. Production shall be determined by records of tank throughput and hours of operation. The records of processing and production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.1.b.3

Reporting:

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

II.B.1.c

Condition:

The permittee shall conduct leak detection and repair for each fugitive emission component installed or modified after September 22, 2015*. Each individual inspection image must encompass associated valve(s), flange(s) or other connection, pump(s), compressor(s), pressure relief device(s) or other vent(s), process drain(s), open-ended valve(s), pump seal(s), compressor seal(s), and access door seal(s) or other seal containing or contacting a process stream with hydrocarbons.

If a leak as defined in the monitoring section below is detected, the owner/operator shall attempt to repair the leak no later than 5 calendar days after detection. Repair of the leak shall be completed no later than 15 calendar days after detection, unless parts are unavailable or unless repair is technically infeasible without a shutdown. The owner/operator shall inspect the repaired leak no later than 15 calendar days after the leak was repaired to verify that it is no longer leaking.

If replacement parts or specialty tools needed for repairs are unavailable, the replacement parts must be ordered no later than 5 calendar days after detection, and the leak must be repaired no later than 15 calendar days after receipt of the replacement parts.

If repair is technically infeasible without a shutdown, the leak must be repaired by the end of the next planned shutdown. If a shutdown is required to repair a leak, the shutdown must occur no later than 6 months after the detection of the leak unless the owner/operator demonstrates that emissions generated from the shutdown are greater than the fugitive emissions likely to result from delay of repair.

*Does not include new or modified fugitive emission components associated with CE-5.[Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.1.c.1

Monitoring:

(1) Inspections shall be conducted according to the following schedule:

- (a) First inspection no later than March 20, 2016
- (b) At least once every 12 months thereafter.

(2) Inspections shall be conducted using the following methods:

- (a) By using an analyzer that meets U.S. EPA Method 21, 40 CFR Part 60, Appendix A, or by using an optical gas imaging instrument as defined in 40 CFR 60.18(g)(4).
- (b) An analyzer reading of 500 ppmv or greater shall be considered a leak in need of repair except for pumps in light liquid service for which analyzer reading of 2000 ppmv shall be considered a leak in need of repair.
- (c) The optical gas imaging instrument must meet requirements specified in 40 CFR 60.18(i)(3). Any emissions detected with an optical gas imaging instrument shall be considered a leak in need of repair unless the owner/operator evaluates the leak with an analyzer meeting U.S. EPA Method 21, 40 CFR Part 60.
- (d) Emissions detected from tank gauging, load-out operations, venting of pneumatics, operation of pressure relief valves, or other maintenance activities shall not be considered leaks.

(3) The permittee is exempt from inspecting a valve, flange or other connection, pump or compressor, pressure relief device, process drain, open-ended valve, pump or compressor seal system degassing vent, accumulator vessel vent, agitator seal, or access door seal under any of the following circumstances:

- (a) the contacting process stream only contains glycol, amine, methanol, or produced water, or
- (b) monitoring could not occur without elevating the monitoring personnel more than six feet above a supported surface or without the assistance of a wheeled scissor- lift or hydraulic type scaffold, or
- (c) monitoring could not occur without exposing monitoring personnel to an immediate danger as a consequence of completing monitoring, or
- (d) the item to be inspected is buried, insulated in a manner that prevents access to the components by a monitor probe, or obstructed by equipment or piping that prevents access to the components by a monitor probe.

II.B.1.c.2

Recordkeeping:

A log identifying each fugitive emission component installed or modified after September 22, 2015 shall be maintained (not including new or modified fugitive emission components associated with CE-5).

Records of inspections and leak detection and repair shall include the following:

- A. The date of the inspection,
- B. The name of the person conducting the inspection,
- C. Any component that is not exempt under monitoring above that is not inspected and the reason it was not inspected,
- D. The identification of any component that was determined to be leaking,
- E. All records for optical gas imaging instruments shall be maintained as per 40 CFR 60.18(i)(4)(vi)
- F. The date of first attempt to repair the leaking component,
- G. Any component with a delayed repair,
- H. The reason for a delayed repair,
 - 1. For unavailable parts or specialty tools:
 - i. The date of ordering a replacement component or specialty tool,
 - ii. The date the replacement component or specialty tool was received,
 - 2. For leaks that cannot be repaired without a shutdown:
 - i. The reason the repair is technically infeasible,
 - ii. The date of the shutdown,
 - iii. Emission estimates from the shutdown and the repair if the delay is longer than 6 months,

- I. Corrective action taken,
- J. The date corrective action was completed, and
- K. The date the component was verified to no longer be leaking.

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

II.B.1.c.3 **Reporting:**

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

II.B.2 **Conditions on Natural Gas Burning Equipment**

II.B.2.a **Condition:**

Visible emissions shall not exceed 10% opacity. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.2.a.1 **Monitoring:**

In lieu of monitoring for opacity, fuel usage shall be monitored to demonstrate that only pipeline-quality natural gas is being used as fuel.

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

A log shall be maintained which identifies any time fuel other than pipeline-quality natural gas is used and the fuel type used for each affected equipment. Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.2.a.3 **Reporting:**

In addition to the reporting requirements specified in Section I of this permit, a report shall be submitted each time any fuel other than pipeline-quality natural gas is used.

II.B.2.b **Condition:**

The permittee shall use only pipeline quality natural gas. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.2.b.1 **Monitoring:**

Fuel usage shall be monitored to demonstrate that only pipeline-quality natural gas is being used as fuel.

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

A log shall be maintained which identifies any time fuel other than pipeline-quality natural gas is used and the fuel type used for each affected equipment. Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.2.b.3

Reporting:

In addition to the reporting requirements specified in Section I of this permit, a report shall be submitted each time any fuel other than pipeline-quality natural gas is used.

II.B.3

Conditions on Flare

II.B.3.a

Condition:

The flare shall be used only for emergencies and planned station and pipeline blow downs for repair and maintenance activities. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.3.a.1

Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.3.a.2

Recordkeeping:

Records of flare usage shall be maintained as described in Provision I.S.1 of this permit. Flare events shall also be identified as being in one of the following three categories: emergency, planned blow downs during repair, or planned blow downs during maintenance activities.

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:

Visible emissions from the flare shall not exceed 20% opacity. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.3.b.1

Monitoring:

During any period that the flare is operated for longer than 24 hours consecutively, a visual opacity determination shall be performed by a certified observer, while the unit is operating, in accordance with 40 CFR 60, Appendix A, Method 9, EPA alternative test method ALT-082, or other EPA-approved test method, as acceptable to the Director.

II.B.3.b.2

Recordkeeping:

The permittee shall keep the following records if the flare is operated for more than 24 hours consecutively: Date and time of the opacity survey, and, if visible emissions are observed, the percent opacity. Records and all data required by 40 CFR 60, Appendix A, Method 9, EPA alternative test method ALT-082, or other EPA-approved testing method, as acceptable to the Director, shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.3.b.3

Reporting:

Any deviations from this condition shall be submitted with semiannual reports. There are no reporting requirements for this provision except those specified in Section I of this permit.

II.B.4 **Conditions on Dehydrator and Reboiler (TEG-1)**

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

In accordance with the requirements of 40 CFR part 63, Subpart HH, for area sources, the permittee shall:

(1) Determine the optimum glycol circulation rate using the following equation:

$$LOPT = 1.15 * 3.0 \text{ gal TEG/lb H}_2\text{O} * (F * (I - O)) / 24 \text{ hr/day}$$

Where:

LOPT = Optimal circulation rate, gal/hr.

F = Gas flowrate (MMSCF/D).

I = Inlet water content (lb/MMSCF)

O = Outlet water content (lb/MMSCF).

3.0 = The industry accepted rule of thumb for a TEG-to water ratio (gal TEG/lb H₂O).

1.15 = Adjustment factor included for a margin of safety. [40 CFR 63.764(d)(2)(i)]

(2) The permittee shall operate the TEG dehydration unit such that the actual glycol circulation rate does not exceed the optimum glycol circulation rate determined in accordance with (1) of this condition. If the TEG dehydration unit is unable to meet the sales gas specification for moisture content using the glycol circulation rate determined in accordance with paragraph (1), the permittee must calculate an alternate circulation rate using GRI-GLYCalc TM, Version 3.0 or higher. The permittee must document why the TEG dehydration unit must be operated using the alternate circulation rate and submit this documentation with the initial notification in accordance with 40 CFR 63.775(c)(7). [40 CFR 63.764(d)(2)(ii)]

(3) The permittee is exempt from the requirements of (1) and (2) of this section (II.B.4.a) if the criteria listed in (i) or (ii) of this section are met, except that the records of the determination of these criteria must be maintained as required in 40 CFR 63.774(d)(1).

- (i) The actual annual average flowrate of natural gas to the glycol dehydration unit is less than 85 thousand standard cubic meters per day, as determined by the procedures specified in 63.772(b)(1); or
- (ii) The actual average emissions of benzene from the glycol dehydration unit process vent to the atmosphere are less than 0.90 megagram per year, as determined by the procedures specified in 40 CFR 63.772(b)(2) of 40 CFR 63 Subpart HH. [40 CFR 63.764(e)(ii)]

(4) If the permittee determines it is not a major source but has actual emissions of 5 tons per year or more of a single HAP, or 12.5 tons per year or more of a combination of HAP (i.e., 50 percent of the major source thresholds), it shall update its major source determination within 1 year of the prior determination or October 15, 2012, whichever is later, and each year thereafter, using gas composition data measured during the preceding 12 months. [40 CFR 63.760(c)]

[Origin: 40 CFR 63 Subpart H]. [40 CFR 63.760(c), 40 CFR 63.764(d)(2)]

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

Records required for this permit condition will serve as monitoring.

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

The permittee shall maintain a record of the determination specified in paragraph (2) in accordance with the requirements in (1) and (2) and submit the Initial Notification in accordance

with the requirements in 40 CFR 63.775(c)(7). If operating conditions change and a modification to the optimum glycol circulation rate is required, the owner or operator shall prepare a new determination in accordance with 63.764(d)(2)(i) or (ii) of this section and submit the following information: [Origin: 40 CFR 63.764(d)(2)]. [40 CFR 63 Subpart HH]

- (i) Calculation of the optimum glycol circulation rate determined in accordance with (1).
- (ii) If applicable, documentation of the alternate glycol circulation rate calculated using GRI-GLYCalc TM, Version 3.0 or higher and documentation stating why the TEG dehydration unit must operate using the alternate glycol circulation rate.
- (iii) The name of the manufacturer and the model number of the glycol circulation pump(s) in operation.
- (iv) Statement by a responsible official, with that official's name, title, and signature, certifying that the facility will always operate the glycol dehydration unit using the optimum circulation rate determined in accordance with (1) or (2), as applicable. [40 CFR 63 Subpart HH]

Records 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:

The combustor (C-1) shall operate at all times when the Dehydrator/Reboiler (TEG-1) is operating, except for downtime not to exceed 175 hours on a calendar year basis. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.4.b.1 Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.4.b.2 Recordkeeping:

Records of combustor downtime shall be kept on a daily basis as described in Provision I.S.1 of this permit.

II.B.4.b.3 Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

II.B.4.c Condition:

The combustor (C-1) shall be equipped with an operational auto-igniter upon installation.

[Origin: R307-503-4]. [R307-503-4]

II.B.4.c.1 Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.4.c.2

Recordkeeping:

The owner or operator shall maintain records demonstrating the date of installation and manufacturer specifications for the auto-igniter. Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.4.c.3

Reporting:

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

II.B.5

Conditions on RICE Natural Gas Compressor Engine (CE-1)

II.B.5.a

Condition:

This condition becomes effective October 19, 2013.

(1) The following maintenance is required:

- (i) Change oil and filter every 4,320 hours of operation or annually, whichever comes first. The permittee may utilize an oil analysis program as described in 40 CFR 63.6625(j) in order to extend the specified oil change requirement in Table 2d 40 CFR 63 Subpart ZZZZ.
- (ii) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and
- (iii) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ Table 2d(6)]

(2) The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)(5)]

(3) 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 Director 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. [40 CFR 63.6605(b)]

(4) 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.

(5) During periods of startup the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes. [40 CFR 63.6625(h)]

[Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6605(b), 40 CFR 63.6625(e), 40 CFR 63.6625(h), 40 CFR 63.6665, 40 CFR 63 Subpart ZZZZ Table 2d(6)]

II.B.5.a.1

Monitoring:

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]

Records required for this permit condition will serve as monitoring.

II.B.5.a.2

Recordkeeping:

Operation and maintenance records shall be maintained in accordance with Provision I.S.1 of this permit. Records shall also comply with 40 CFR 63.6655(a).

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].

II.B.5.a.3

Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

Additionally, notifications meeting the requirements of 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)]

Reports shall contain information as outlined in 40 CFR 63.6650.

The permittee shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in 40 CFR 63 Subpart ZZZZ Table 8. [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 permittee shall report each instance in which it did not meet each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ, Table 2d. [40 CFR 63.6640(b)].

II.B.6

Conditions on RICE Natural Gas Compressor Engine (CE-2)

II.B.6.a

Condition:

This condition becomes effective October 19, 2013 for 4SRB stationary RICE with a site rating greater than 500 hp located at an area source of HAPs that meets the definition of remote stationary RICE in 40 CFR 63.6675.

(1) Except during startup, the permittee shall:

- (i) Change oil and filter every 2,160 hours of operation or annually, whichever comes first. The permittee may utilize an oil analysis program as described in 40 CFR 63.6625(j) in order to extend the specified oil change requirement in Table 2d 40 CFR 63 Subpart ZZZZ;
- (ii) Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and
- (iii) Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a) and 40 CFR 63 Subpart ZZZZ Table 2d(11)]

(2) The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own

maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e), 40 CFR 63.6640(a), and 40 CFR Subpart ZZZZ Table 6(9)]

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

(4) During periods of startup the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 2d to 40 CFR 63 subpart ZZZZ. [40 CFR 63.6625(h)]

(5) 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 Director 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. [40 CFR 63.6605(b)]

[Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6605(b), 40 CFR 63.6625(e), 40 CFR 63.6625(h), 40 CFR 63.6665, 40 CFR 63 Subpart ZZZZ Table 2d(6)]

II.B.6.a.1

Monitoring:

(1) Records required for this permit condition will serve as monitoring.

(2) Continuous compliance shall be demonstrated by:

(i) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(ii) Develop and follow a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(3) 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].

II.B.6.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit. Records shall also comply with the applicable sections of 40 CFR 63.6655.

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].

II.B.6.a.3

Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

Notifications meeting the requirements of 40 CFR 63.9(c) and (h), shall be submitted as specified and applicable. [40 CFR 63.6645(a)]

Reports shall contain information as outlined in 40 CFR 63.6650.

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]

The permittee shall report each instance in which it did not meet each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ, Table 2d. [40 CFR 63.6640(b)]

The permittee shall also report each instance in which it did not meet the applicable requirements in Table 8. [40 CFR 63.6640(e)].

II.B.6.b Condition:

For existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in 40 CFR 63.6675 of this subpart as of October 19, 2013 the permittee shall evaluate the status of their stationary RICE every 12 months. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in 40 CFR 63.6675 of this subpart, permittee shall comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation. [Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6603(f)]

II.B.6.b.1 Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.6.b.2 Recordkeeping:

The Permittee shall keep records of the initial and annual evaluation of the status of the engine.
Records shall be maintained in accordance with Provision I.S.1 of this permit.

II.B.6.b.3 Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

II.B.7 Conditions on RICE Natural Gas Compressor Engine (CE-3)

II.B.7.a Condition:

This condition applies to 4SRB stationary RICE with a site rating greater than 500 hp located at an area source of HAPs that meet the definition of remote stationary RICE in 40 CFR 63.6675.

(1) Except during startup, the permittee shall:

- (i) Change oil and filter every 2,160 hours of operation or annually, whichever comes first, the permittee may utilize an oil analysis program as described in 40 CFR 63.6625(j) in order to extend the specified oil change requirement in Table 2d 40 CFR 63 Subpart ZZZZ;
- (ii) Inspect spark plugs every 2,160 hours of operation or annually, whichever comes first, and replace as necessary; and
- (iii) Inspect all hoses and belts every 2,160 hours of operation or annually, whichever comes first, and replace as necessary.

[40 CFR 63.6603(a) and 40 CFR 63 Subpart ZZZZ Table 2d(11)]

(2) The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e), 40 CFR 63.6640(a), and 40 CFR Subpart ZZZZ Table 6 (9)]

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

(4) During periods of startup the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes. [40 CFR 63.6625(h)]

(5) 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 Director 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. [40 CFR 63.6605(b)]

[Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6603(a), 40 CFR 63.6605(b), 40 CFR 63.6625(h), 40 CFR 63.6665, 40 CFR 63 Subpart ZZZZ Table 2d(11)]

II.B.7.a.1

Monitoring:

(1) Records required for this permit condition will serve as monitoring.

(2) Continuous compliance shall be demonstrated by

(i) Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or

(ii) Develop and follow a maintenance plan which shall provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(3) 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].

II.B.7.a.2

Recordkeeping:

Results of monitoring shall be maintained in accordance with Provision I.S.1 of this permit. Records shall also comply with the applicable sections of 40 CFR 63.6655.

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].

II.B.7.a.3

Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

Notifications meeting the requirements of 40 CFR 63.9(c) and (h), shall be submitted as specified and applicable. [40 CFR 63.6645(a)]

Reports shall contain information as outlined in 40 CFR 63.6650.

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]

The permittee shall report each instance in which it did not meet each applicable emission limitation or operating limitation in 40 CFR 63 Subpart ZZZZ, Table 2d. [40 CFR 63.6640(b)]

The permittee shall also report each instance in which it did not meet the applicable requirements in Table 8. [40 CFR 63.6640(e)].

II.B.7.b Condition:

For existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that meet the definition of remote stationary RICE in 40 CFR 63.6675 of this subpart as of October 19, 2013 the permittee shall evaluate the status of their stationary RICE every 12 months. If the evaluation indicates that the stationary RICE no longer meets the definition of remote stationary RICE in 40 CFR 63.6675 of this subpart, the owner or operator must comply with all of the requirements for existing non-emergency SI 4SLB and 4SRB stationary RICE with a site rating of more than 500 HP located at area sources of HAP that are not remote stationary RICE within 1 year of the evaluation. [Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6603(f)]

II.B.7.b.1 Monitoring:

Records required for this permit condition will serve as monitoring.

II.B.7.b.2 Recordkeeping:

The permittee shall keep records of the initial and annual evaluation of the status of the engine.

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

II.B.7.b.3 Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

II.B.8 Conditions on RICE Natural Gas Compressor Engine (CE-4)

II.B.8.a Condition:

This condition becomes effective October 19, 2013.

(1) The following maintenance is required:

- (i) Change oil and filter every 4,320 hours of operation or annually, whichever comes first. The permittee may utilize an oil analysis program as described in 40 CFR 63.6625(j) in order to extend the specified oil change requirement in Table 2d 40 CFR 63 Subpart ZZZZ.
- (ii) Inspect spark plugs every 4,320 hours of operation or annually, whichever comes first, and replace as necessary; and
- (iii) Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63 Subpart ZZZZ Table 2d(6)]

(2) The permittee must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. [40 CFR 63.6625(e)]

(3) 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 Director 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. [40 CFR 63.6605(b)]

(4) 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.

(5) During periods of startup the permittee shall minimize the engine's time spent at idle and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine not to exceed 30 minutes. [40 CFR 63.6625(h)]

[Origin: 40 CFR 63 Subpart ZZZZ]. [40 CFR 63.6605(b), 40 CFR 63.6625(e), 40 CFR 63.6625(h), 40 CFR 63.6665, 40 CFR 63 Subpart ZZZZ Table 2d(6)]

II.B.8.a.1

Monitoring:

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]

Records required for this permit condition will serve as monitoring.

II.B.8.a.2

Recordkeeping:

Operation and maintenance records shall be maintained in accordance with Provision I.S.1 of this permit. Records shall also comply with 40 CFR 63.6655(a).

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].

II.B.8.a.3

Reporting:

Reporting requirements for this provision are specified in Section I of this permit.

Additionally, notifications meeting the requirements of 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)]

Reports shall contain information as outlined in 40 CFR 63.6650.

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

II.B.9 **RICE Natural Gas Compressor Engine (CE-5)**

II.B.9.a **Condition:**

(1) Emissions to the atmosphere shall not exceed the following rates:

NO_x 3.70 lb/hr
CO..... 7.41 lb/hr
VOC* 0.59 lb/hr

*Includes formaldehyde.

[Origin: DAQE-AN0102090008-15]. [R307-401-8]

(2) The air-to-fuel ratio controller shall be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times. [40 CFR 60.4243(g)]

(3) The permittee shall operate and maintain the engine to achieve the emission standards as required in 40 CFR 60.4233 over the life of the engine. [40 CFR 60.4234]

(4) The permittee shall comply with the applicable general provisions in 40 CFR 60.1-19 as identified in Table 3 of 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]

[Origin: 40 CFR 60.4236 (b), 40 CFR 60.4243(g), 40 CFR 60.4234, 40 CFR 60.4246, and R307-401-8]. [40 CFR 60 Subpart JJJJ]

II.B.9.a.1 **Monitoring:**

(1) The permittee shall demonstrate compliance according to one of the methods specified in paragraph 1(i) or 1(ii) of this section:

(i) Purchasing an engine certified according to procedures specified in 40 CFR 60 Subpart JJJJ, for the same model year and demonstrating compliance according to one of the methods specified 40 CFR 60.4243(a). [40 CFR 60.4243(b)(1)].

(ii) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in 40 CFR 60.4233(e) and according to the requirements specified in 40 CFR 60.4244, as applicable, and according to 3 and 4 of this section. The permittee shall keep a maintenance plan and records of conducted maintenance and shall, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, the permittee 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. [40 CFR 60.4243(b)(2)]

(2) Emissions tests shall be conducted in accordance with 40 CFR 60.4244, 40 CFR 60 Subpart JJJJ Table 2, and the following:

(i) An initial compliance test shall be performed as soon as possible and no later than 180 days after the startup.

(ii) Frequency - After the initial test, emission shall be tested every 8,760 hours of operation or once every three years, whichever comes first. The Director may require testing at any time.

(iii) Notification - At least 30 days before the test, the permittee shall notify the Director of the date, time, and place of testing and provide a copy of the test protocol. The source test protocol

shall be approved by the Director prior to performing the test(s). The source test protocol shall outline the proposed test methodologies, stack to be tested, and procedures to be used. A pretest conference shall be held, if directed by the Director.

(iv) Sample Location - The emission point shall be designed to conform to the requirements of 40 CFR 60, Appendix A, Method 1, or other methods as approved by the Director. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location.

(v) Volumetric Flow Rate - 40 CFR 60, Appendix A, Method 2 or other EPA testing methods approved by the Director.

(vi) Nitrogen Oxides (NOX) - 40 CFR 60, Appendix A Method 7, 7A, 7B, 7C, 7D, 7E, or other testing methods approved by the Director

(vii) Carbon Monoxide (CO) - 40 CFR 60, Appendix A, Method 10, or other EPA testing methods approved by the Director.

(viii) Volatile Organic Compounds (VOCs) - 40 CFR 60 Appendix A: Method 18, 25, 25A, 40 CFR 63 Appendix A: Method 320, or other testing method approved by the Director.

(ix) Calculations - To determine mass emission rates (lb/hr, etc.) the pollutant concentration as determined by the appropriate methods above shall be multiplied by the volumetric flow rate and any necessary conversion factors determined by the Director, to give the results in the specified units of the emission limitation.

(x) Existing Source Operation- For an existing source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production achieved in the previous five (5) years.

[40 CFR 60.4244 and DAQE-AN102090008-15]

(3) The permittee shall comply with the applicable general provisions in 40 CFR 60.1-19 as identified in Table 3 of 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246].

II.B.9.a.2

Recordkeeping:

The permittee shall keep records of the following:

(1) All notifications submitted to comply with 40 CFR 60 Subpart JJJJ and all documentation supporting any notifications

(2) Records of conducted maintenance to demonstrate compliance with manufacturer's emission-related instruction [40 CFR 60.4243(a)(1)]

(3) If the engine is not certified or is a certified engine operating in a non-certified manner and subject to 40 CFR 60.4243(a)(2), documentation that the engine meets the emission standards [40 CFR 60.4245(a)]

The permittee shall comply with the applicable general provisions in 40 CFR 60.1-19 as identified in Table 3 of 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]

Records shall be maintained as described in Provision I.S.1 of this permit.

II.B.9.a.3

Reporting:

The permittee must submit an initial notification as required in 40 CFR 60.7(a)(1) and must include the information in 40 CFR 60.4245(c)(1) through (5). [40 CFR 60.4245(c)]

A copy of each performance test as conducted in 40 CFR 60.4244 must be submitted within 60 days after the test has been completed [40 CFR 60.4245(d)]

The permittee shall comply with the applicable general provisions in 40 CFR 60.1-19 as identified in Table 3 of 40 CFR 60 Subpart JJJJ. [40 CFR 60.4246]

Reporting requirements for this provision are specified in Section I of this permit.

II.B.9.b

Condition:

(1) For the compressor, the permittee shall replace rod packing according to the following:

(i) Before the compressor has operated for 26,000 hours. The number of hours of operation must be continuously monitored beginning upon initial startup of your reciprocating compressor affected facility, or October 15, 2012, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later; or

(ii) Prior to 36 months from the date of the most recent rod packing replacement, or 36 months from the date of startup for a new reciprocating compressor for which the rod packing has not yet been replaced. [40 CFR 60.5385(a) and 40 CFR 60.5415(c)(3)]

(2) The permittee shall comply with the applicable general provisions in 40 CFR 63.1-19 (40 CFR 60 Subpart A) as identified in Table 3 of 40 CFR 60 Subpart OOOO. [40 CFR 60.5425]

[Origin: 40 CFR 60.5385(a), 40 CFR 60.5415(c)(3), 40 CFR 60.5425]. [40 CFR 60 Subpart OOOO]

II.B.9.b.1

Monitoring:

The permittee shall demonstrate initial compliance with standards that apply to reciprocating compressor affected facilities as required by 40 CFR 60.5410. [40 CFR 60.5385(b)]

During the initial compliance period, the permittee shall continuously monitor the number of hours of operation or track the number of months since the last rod packing replacement. [40 CFR 60.5410(c)(1)]

The permittee shall continuously monitor the number of hours of operation for each reciprocating compressor affected facility or track the number of months since initial startup, or the date of the most recent reciprocating compressor rod packing replacement, whichever is later. [40 CFR 60.5415(c)(1)]

The permittee shall comply with the applicable general monitoring provisions in 40 CFR 63.1-19 (40 CFR 60 Subpart A) as identified in Table 3 of 40 CFR 60 Subpart OOOO. [40 CFR 60.5425].

II.B.9.b.2

Recordkeeping:

The permittee shall perform applicable recordkeeping of 40 CFR 60.5420. [40 CFR 60.5385(d) and 40 CFR 60.5410(c)(4)]

The permittee shall comply with the applicable general recordkeeping provisions in 40 CFR 63.1-19 (40 CFR 60 Subpart A) as identified in Table 3 of 40 CFR 60 Subpart OOOO. [40 CFR 60.5425]

Records shall be maintained as described in Provision I.S.1 of this permit.

II.B.9.b.3

Reporting:

The permittee shall submit the initial and subsequent annual reports for the reciprocating compressor as required in 40 CFR 60.5420(b). [40 CFR 60.5385(d), 40 CFR 60.5410(c)(3), 40 CFR 60.5415(c)(2)]

The permittee shall comply with the applicable general reporting provisions in 40 CFR 63.1-19 (40 CFR 60 Subpart A) as identified in Table 3 of 40 CFR 60 Subpart OOOO. [40 CFR 60.5425]

Reporting requirements for this provision are specified in Section I of this permit.

II.B.10

Tanks (Group)

II.B.10.a

Condition:

Storage tank thief-hatches shall be closed and latched except during tank unloading or other maintenance activities. [Origin: DAQE-AN0102090008-15]. [R307-401-8]

II.B.10.a.1

Monitoring:

Inspections shall be made at least once every three months to ensure the thief-hatches are closed, latched, and the associated gaskets, if any, are in good working condition.

II.B.10.a.2

Recordkeeping:

Records of thief-hatch inspections shall include the date of the inspection and the status of the thief hatches.

Records shall be maintained as described in Provision I.S.1 of this permit.

II.B.10.a.3

Reporting:

Reporting requirements for this provision are 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

The following requirements have been determined to be not applicable to this source in accordance with Provision I.M, Permit Shield:

- III.A. 40 CFR, Part 60, Subparts K, Ka, Kb (NSPS/ Volatile Organic Liquid Storage Vessels)
- This regulation is not applicable to the Permitted Source for the following reason(s): This regulation is not applicable to the Pit Tank (Unit 14) because construction of this tank was prior to June 11, 1973 [Last updated February 28, 2022]
- III.B. 40 CFR, Part 60, Subparts K, Ka, Kb (NSPS/ Volatile Organic Liquid Storage Vessels)
- This regulation is not applicable to the Permitted Source for the following reason(s): This regulation is not applicable to the Pit Tank, Condensate Tanks, or Methanol Tanks because each is less than 19,813 gallon threshold. [Last updated February 28, 2022]
- III.C. 40 CFR, Part 60, Subpart OOOO (NSPS/Storage Vessels)
- This regulation is not applicable to the Permitted Source for the following reason(s): This regulation is not applicable to the Pit Tank and Condensate Tanks because these tanks were constructed before the applicability date of August 23, 2011 and were not modified or reconstructed after this date. The Methanol Tank is not an affected facility for the purpose of this regulation. [Last updated February 28, 2022]
- III.D. 40 CFR, Part 60, Subparts KKK (NSPS/VOC leaks, Natural Gas Plants)
- This regulation is not applicable to the Permitted Source for the following reason(s): This regulation is not applicable to the permitted source (Source-wide) because the compressor station is not located at a natural gas plant [Last updated February 28, 2022]
- III.E. 40 CFR, Part 60, Subpart OOOO (NSPS/Reciprocating Compressors)
- This regulation is not applicable to the RICE Natural Gas Compressor Engines (CE-1-CE-4) for the following reason(s): This regulation is not applicable to CE-1 through CE-4 compressors. They were manufactured before the applicability date of August 23, 2011 and were not modified or reconstructed after this date. [Last updated February 28, 2022]
- III.F. 40 CFR, Part 60, Subpart JJJJ (NSPS/Stationary Internal Combustion Engines)
- This regulation is not applicable to the RICE Natural Gas Compressor Engines (CE-1-CE-4) for the following reason(s): This regulation is not applicable to CE-1 through CE-4 compressors. These engines were manufactured before the applicability dates and were not modified or reconstructed since their installation. [Last updated February 28, 2022]

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-AN102090008-15 dated September 22, 2015
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1. Comment on an item originating in site activities regarding Permitted Source

Description of source: Raw natural gas from the Altamont field is gathered at low pressure and delivered to the Compressor Station. The gas is separated from the hydrocarbon condensate. The inlet gas is then compressed through three stages of compression to a pressure of approximately 520 psig. This high pressure gas then flows through a Sulpha Check Unit where hydrogen sulfide is removed. The Sulpha Check process is a direct liquid phase oxidation process using an aqueous solution of salt oxidizers such as sodium nitrite. The process selectively removes H₂S and mercaptans from sour gas and produces a by-product slurry of sulfur and sodium salts and is not an air emissions unit and, therefore, is not covered by 40 CFR Part 60, LLL. A glycol dehydration system provides the final step in gas conditioning prior to the gas being routed to the pipeline going to the Altamont Gas Plant. No products are attributed to the compressor station because the inlet gas and condensate are delivered to the plant for further processing. The compressor station operates continuously with no seasonal variations.

Residue gas processed from the Altamont Gas Plant is delivered via pipeline to this Compressor Station. Approximately 0.61 MMSCFD of fuel gas is consumed at the compressor station at maximum rates. The fuel gas supplies the compressors, the glycol reboiler heater, and the line heater.

[Last updated February 28, 2022]

2. Comment on an item originating in AO DAQE-093-98 regarding Permitted Source

AO conditions originating in AO DAQE-093-98 were not carried over into this permit: AO Condition 4 (operator training) was not carried over because it was not warranted for storage tanks and a dehydration unit (which are the only emitting units covered by the AO).

AO Condition 7 (items recognized to be at the facility) was not carried over because it was only for clarifying which units at the facility originally required an NSR permit.

AO Condition 8 (1.7 GPM maximum pump rate) was not carried over because it was a construction design condition only. [Last updated February 28, 2022]

3. Comment on an item originating in 40 CFR 61 Subpart V regarding Dehydrator and Reboiler (TEG-1)

This source is not subject to 40 CFR 61 Subpart V - National Emission Standards for Equipment Leaks because: the source does not operate equipment in VHAP service. [Last updated February 28, 2022]

4. Comment on an item originating in 40 CFR 63 Subpart H regarding Dehydrator and Reboiler (TEG-1)

This source is not subject to 40 CFR 63 Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks because: the source does not operate equipment in VHAP service. [Last updated February 28, 2022]

5. Comment on an item originating in DAQE-AN0102090006-12 regarding Condensate Tanks (T-2, T-3)

Comments on AO conditions not carried over into this permit: Storage tank opacity of 10% was not included in this permit because tanks are not a combustion or dust source. This condition can be found in the second part of condition II.B.1.a(A) in DAQE-AN0102090006-12 .

Historical Comment: Other Sources Opacity: Under site wide requirements, the 20% opacity condition for all other point sources was not carried over into this permit. Only emissions are from natural gas burning equipment, which have a 10% opacity requirement. This condition can be found in condition II.B.1.a(B) in DAQE-AN0102090006-12. [Last updated February 28, 2022]
6. Comment on an item originating in the Permit Shield regarding Methanol Storage Tank (T-4)

Historical Comment on the Methanol Storage Tank: The methanol storage tank was removed from the site; therefore, it was removed from the permit shield. [Last updated February 28, 2022]
7. Comment on an item originating in DAQE-AN0102090006-12 regarding Flare

Flare Opacity: Under DAQE-AN0102090006-12, there is a 10% opacity measurement for all "Natural Gas Burning Equipment." In lieu of an opacity measurement, the permittee may combust only pipeline-quality natural gas. The flare was removed from the "Natural Gas Burning Equipment" description in Section II.A.2 of this permit because it does not always combust pipeline quality gas when the system is over-pressurized. The site-wide opacity of 20% opacity from DAQE-AN0102090006-12 was then used as outlined in Section II.B.3.b of this permit. Note*: Opacity limit has now been removed from the Flare. It is emergency equipment for which opacity requirements do not apply.

Update in 2021 renewal permit: Although there is a 10% opacity limit on natural gas burning equipment, the flare was removed from 10% because when the system is over pressurized it does not combust pipeline quality natural gas. As part of the renewal process, the site-wide 20% opacity requirement was analyzed with regard to the emergency flare. It was determined that the 20% opacity requirement applies to the emergency flare and is now included in Condition II.B.3.b of the permit. [Last updated February 28, 2022]
8. Comment on an item originating in DAQE-AN0102090008-15 regarding Permitted Source Conditions Carried over into this permit as part of an emission unit description: AO Condition II.B.2.a: Requirement for installation of a flash tank that compresses and recycles off-gases is part of the emissions unit description for TEG-1.

AO Condition II.B.2.c: Requirement for vapors not condensed by the BCU to be routed to the Combustor (C-1) is part of the emissions unit description for C-1.

AO Condition II.B.3.a: Requirement for submerged loading of condensate has been included in the emissions unit description as a design requirement. [Last updated February 28, 2022]