



State of Utah

GARY R. HERBERT
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Lieutenant Governor

Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-IN146270002-14

March 21, 2014

Ron Chamness
Emery Refining, LLC
4265 San Felipe Street
Houston, TX 77027

Dear Mr. Chamness:

Re: Intent to Approve: Modification to Approval Order DAQE-AN146270001-13 for the Green River Petroleum Processing Plant for Various Changes to Their Design
Project Number: N14627-0002

The attached document is the Intent to Approve for the above-referenced project. The Intent to Approve is subject to public review. Any comments received shall be considered before an Approval Order is issued. The Division of Air Quality is authorized to charge a fee for reimbursement of the actual costs incurred in the issuance of an Approval Order. An invoice will follow upon issuance of the final Approval Order.

Future correspondence on this Intent to Approve should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. The project engineer for this action is Mr. Tim DeJulis, who may be reached at (801) 536-4012.

Sincerely,

Alan D. Humpherys, Manager
New Source Review Section

ADH:TDJ:kw

cc: Southeastern Utah District Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

INTENT TO APPROVE: Modification to Approval Order DAQE-AN146270001-13 for the Green River Petroleum Processing Plant for Various Changes to Their Design

**Prepared by: Mr. Tim DeJulis, Engineer
Phone: (801) 536-4012
Email: tdejulis@utah.gov**

INTENT TO APPROVE NUMBER

DAQE-IN146270002-14

Date: March 21, 2014

**Emery Refining, LLC
Green River Oil Refinery
Source Contact:
Ron Chamness, Environmental Contact
Phone: (713) 654-0912
Email: RChamness@woodrock.com**

**Alan D. Humpherys, Manager
New Source Review Section**

ABSTRACT

Emery Refining, LLC, owner and operator of the Green River petroleum refinery, has requested a modification to their AO (DAQE-AN146270001-13 dated June 21, 2013). The proposed plant will advance several changes to their initial design by changing their crude oil throughput to be North American crude oils. Most of the plant will be built from modular components rather than built in place. The vacuum unit has been removed from the plant, the product mix has changed, asphalt has been eliminated as a product, heat demand and heater and boiler sizes have increased from their original design, the number of components has changed upward from the original design, storage tanks will be changed to have fewer and larger tanks, NO_x control will change to ultra-low NO_x burners, the heaters for the storage tanks will come from hot oil heating systems, the truck and rail loading operations will now employ refinery storage systems, the truck and rail loading operations will employ a thermal oxidizer, the fire pump engine will increase in horsepower, a diesel fueled back up pump has been added to the cooling water system, and the wax plant has been reduced to 5,000 barrels (210,000 gallons) per day. The distillation plant will have a capacity of 10,000 barrels (420,000 gallons) per day. There will also be an in-plant crude oil material throughput capacity of 13,000 barrels (546,000 gallons) of crude oil per day. This amount will be off-loaded from trucks, blended with other materials in the tanks, and returned to rail cars for delivery to other locations. The total crude oil capacity petroleum refinery throughput shall be 28,000 barrels (1,176,000 gallons) per day.

The processing plant will consist of two separate processing facilities: a distillation plant and a wax plant. The processing plant will consist of distillation towers, process heaters, boilers, storage tanks, wax crystallizers, flare devices, material unloading/loading racks, and various pollution control devices.

Emery County is an attainment area of the NAAQS for all pollutants. NSPS, NESHAP, and MACT regulations and Title V of the 1990 Clean Air Act apply to this source.

The emissions, in TPY, will change as follows:

PM₁₀ = (- 4.68), PM_{2.5} = (+ 3.79), NO_x = (+ 5.70), SO₂ = (- 0.59), CO = (- 2.33), VOC = (+20.38), HAPs = (+2.72), CO_{2e} = (+ 8,566)

The emissions, in TPY, will be as follows:

PM₁₀ = 6.24, PM_{2.5} = 6.24, NO_x = 26.79, SO₂ = 0.56, CO = 70.87, VOC = 56.40, HAPs = 5.43, CO_{2e} = 98,662

PM_{2.5} is a subset of PM₁₀.

The NOI for the above-referenced project has been evaluated and has been found to be consistent with the requirements of UAC R307. Air pollution producing sources and/or their air control facilities may not be constructed, installed, established, or modified prior to the issuance of an AO by the Director.

A 30-day public comment period will be held in accordance with UAC R307-401-7. A notification of the intent to approve will be published in the Emery County Progress on March 25, 2014. During the public comment period the proposal and the evaluation of its impact on air quality will be available for the public to review and provide comment. If anyone so requests a public hearing within 15 days of publication, it will be held in accordance with UAC R307-401-7. The hearing will be held as close as practicable to the location of the source. Any comments received during the public comment period and the hearing will be evaluated. The proposed conditions of the AO may be changed as a result of the comments received.

Name of Permittee:

Emery Refining, LLC
4265 San Felipe Street, Suite 600
Houston, TX 77027

Permitted Location:

Green River Oil Refinery
5 miles west of Green River
Emery County, UT 84525

UTM coordinates: 564,747 m Easting, 4,316,525 m Northing, UTM Zone 12
SIC code: 2911 (Petroleum Refining)

Section I: GENERAL PROVISIONS

- I.1 All definitions, terms, abbreviations, and references used in this AO conform to those used in the UAC R307 and 40 CFR. Unless noted otherwise, references cited in these AO conditions refer to those rules. [R307-101]
- I.2 The limits set forth in this AO shall not be exceeded without prior approval. [R307-401]
- I.3 Modifications to the equipment or processes approved by this AO that could affect the emissions covered by this AO must be reviewed and approved. [R307-401-1]
- I.4 All records referenced in this AO or in other applicable rules, which are required to be kept by the owner/operator, shall be made available to the Director or Director's representative upon request, and the records shall include the two-year period prior to the date of the request. Unless otherwise specified in this AO or in other applicable state and federal rules, records shall be kept for a minimum of two (2) years. [R307-401-8]
- I.5 At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any equipment approved under this AO, 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, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with UAC R307-107. General Requirements: Breakdowns. [R307-107]
- I.7 The owner/operator shall comply with UAC R307-150 Series. Inventories, Testing and Monitoring. [R307-150]

Section II: SPECIAL PROVISIONS

II.A The approved installations shall consist of the following equipment:

- II.A.1 **Petroleum Processing Plant**
Emery Refining, LLC
- II.A.2 **Water Treatment**
consisting of:
Two (2) separate oil/water separators systems
Two (2) salt separation systems
- II.A.3 **Reactor Charge Heater – Wax Plant (1)**
Capacity: 3.7 MMBtu/hr
- II.A.4 **Vacuum Charge Heater – Wax Plant (1)**
Capacity: 4.4 MMBtu/hr
- II.A.5 **Boiler (2) Distillation Plant**
Capacity: 15.7 MMBtu/hr each
- II.A.6 **Hot Oil Heater – Distillation Plant (1)**
Capacity: 16.3 MMBtu/hr
- II.A.7 **Crude Heater – Wax Plant (1)**
Capacity: 22.8 MMBtu/hr
- II.A.8 **Boiler (1) Wax Plant**
Capacity: 28.2 MMBtu/hr
- II.A.9 **Hot Oil Heater – Wax Plant (1)**
Capacity: 35.1 MMBtu/hr
- II.A.10 **Crude Heater – Distillation Plant (1)**
Capacity: 35.7 MMBtu/hr
- II.A.11 **Kerosene Treater Unit**
Capacity: 73,500 gallons/day
- II.A.12 **Sour Water Stripper Unit**
Capacity: 14,400 gallons/day
- II.A.13 **Drying Units**
Diesel and Jet Fuel with clay filters
- II.A.14 **Cooling Towers**
30,000 gpm capacity (combined).

Listed for information purposes.

- II.A.15 **Thermal Oxidizer (1)**
Capacity: 98 MMBtu/hr
- II.A.16 **Flare Systems**
Two (2) industrial flare devices (33,300 Btu/hr pilot each), air assisted.
- II.A.17 **Cooling Water Pump**
Capacity: 75 hp
- II.A.18 **Fire System Pump Engine**
Capacity: 400 hp
- II.A.19 **Emergency Generator Engine**
Capacity: one (1) MW
- II.A.20 **Material Transfer Equipment (2)**
Crude oil, diesel fuel, naphtha, kerosene, and liquid petroleum gas product transfer equipment, both to and from truck and rail cars.
- II.A.21 **Fuel Distillation Unit**
Salt separator
Oil/water separator (see II.A.2)
Atmospheric fractionation tower
Boilers and heaters (see II.A.5, II.A.6, II.A.10)
Storage tanks (see tanks D-1 through D-16)
Product loading rack (see II.A.20)
- II.A.22 **Wax Plant Unit**
Salt separator
Oil/water separator (see II.A.2)
Atmospheric fractionation towers
Boilers and heaters (see II.A.3, II.A.4, II.A.7, through II.A.9)
Storage tanks (see tanks W-1 through W-21)
Vacuum tower unit
Crystallizers
Rotary filters
Slabber, priller, pelletizer
Product loading rack (see II.A.20)
- II.A.23 **Storage Tanks**
Three (3) pressurized storage tanks in LPG products service

Listed for information purposes.
- II.A.24 **Storage Tanks (T-1, T-2)**
Two (2) internal floating roof tanks, 81,250 barrel (3,412,500 gallon) capacity each, in crude oil service

- II.A.25 **Storage Tank (T-3)**
 One (1) internal floating roof tank, 104,500 barrel (4,389,000 gallon) capacity, in blended crude service
- II.A.26 **Storage Tank (T-4)**
 One (1) vertical fixed roof tank, 81,250 barrel (3,412,500 gallon) capacity, in diesel service
- II.A.27 **Storage Tank (T-5)**
 One (1) internal floating roof tank, 81,250 barrel (3,412,500 gallon) capacity, in naphtha service
- II.A.28 **Storage Tank (T-6)**
 One (1) internal floating roof tank, 24,000 barrel (1,008,000 gallon) capacity, in BSW service
- II.A.29 **Storage Tank (D-1)**
 One (1) internal floating roof tank, 35,000 barrel (1,470,000 gallon) capacity, in crude oil service
- II.A.30 **Storage Tank (D -2)**
 One (1) internal floating roof tank, 10,000 barrel (420,000 gallon) capacity, in naphtha service
- II.A.31 **Storage Tank (D-3)**
 One (1) vertical fixed roof tank, 5,000 barrel (210,000 gallon) capacity each, in kerosene service
- II.A.32 **Storage Tanks (D-4, D-5)**
 Two (2) vertical fixed roof tanks, 10,000 barrel (420,000 gallon) capacity each, in diesel or fuel oil service
- II.A.33 **Storage Tanks (D-6, D-7)**
 Two (2) internal floating roof tanks, 15,000 barrel (630,000 gallon) capacity each, in naphtha service
- II.A.34 **Storage Tanks (D-8, D-9)**
 Two (2) vertical fixed roof tanks, 10,000 barrel (420,000 gallon) capacity each, in kerosene or jet fuel A service
- II.A.35 **Storage Tanks (D-10 through D-13)**
 Four (4) vertical fixed roof tanks, 15,000 barrel (630,000 gallon) capacity each, in diesel or fuel oil service
- II.A.36 **Storage Tanks (D-14 through D-16)**
 Three (3) internal floating roof tanks, 5,000 barrel (210,000 gallon) capacity each, in light or heavy slops service
- II.A.37 **Storage Tanks (W-1 through W-3)**
 Three (3) internal floating roof tanks, 20,000 barrel (840,000 gallon) capacity each, in crude oil service

- II.A.38 **Storage Tank (W -4)**
One (1) vertical fixed roof tank, 2,500 barrel (105,000 gallon) capacity, in slop service
- II.A.39 **Storage Tank (W-5)**
One (1) internal floating roof tank, 5,000 barrel (210,000 gallon) capacity, in naphtha service
- II.A.40 **Storage Tank (W-6)**
One (1) vertical fixed roof tank, 6,000 barrel (252,000) gallon capacity, in kerosene service
- II.A.41 **Storage Tank (W-7)**
One (1) vertical fixed roof tank, 15,000 barrel (630,000 gallon) capacity, in diesel service
- II.A.42 **Storage Tanks (W-8, W-9)**
Two (2) vertical fixed roof tanks, 5,500 barrel (231,000 gallon) capacity each, in light distillate service
- II.A.43 **Storage Tanks (W-10, W-11)**
Two (2) vertical fixed roof tanks, 5,000 barrel (210,000 gallon) capacity each, in medium distillate service
- II.A.44 **Storage Tanks (W-12, W-13)**
Two (2) vertical fixed roof tanks, 3,500 barrel (147,000 gallon) capacity each, in heavy distillate service
- II.A.45 **Storage Tank (W-14)**
One (1) vertical fixed roof tank, 5,000 barrel (210,000 gallon) capacity, in vacuum residue service
- II.A.46 **Storage Tanks (W-15, W-16)**
Two (2) vertical fixed roof tanks, 3,500 barrel (147,000 gallon) capacity each, in light unrefined wax service
- II.A.47 **Storage Tanks (W-17, W-18)**
Two (2) vertical fixed roof tanks, 5,000 barrel (210,000 gallon) capacity each, in medium unrefined wax service
- II.A.48 **Storage Tanks (W-19, W-20)**
Two (2) vertical fixed roof tanks, 3,000 barrel (126,000 gallon) capacity each, in heavy unrefined wax service
- II.A.49 **Storage Tanks (W-21)**
One (1) vertical fixed roof tank, 15,000 barrel (630,000 gallon) capacity, in soft wax service

II.B Requirements and Limitations

II.B.1 **The Emery Refining LLC Petroleum Processing Plant shall be subject to the following**

- II.B.1.a Visible emissions from any stationary point or fugitive emission source associated with the source or with the control facilities shall not exceed 10% opacity, unless specified elsewhere.

Opacity observations of emissions from stationary sources shall be conducted in accordance with 40 CFR 60, Appendix A, Method 9. [R307-401-8]

II.B.1.b At least once every three months, the owner/operator shall inspect the entire site for leaks using an infrared camera that can detect gas leaks.

If a leak is detected at any time, the leak shall either be repaired or be evaluated with an analyzer meeting U.S. EPA Method 21, 40 CFR 60, Appendix A. If the analyzer's reading is 500 ppm or greater, the leak shall be repaired. Leaks repaired within 15 calendar days of detection shall be in compliance. [R307-401-8]

II.B.1.b.1 Records of infrared camera inspection, leak detection, and repair shall include the following:

- a. The date of the infrared camera inspection,
- b. An image/picture of each piece of equipment on site per inspection,
- c. An image/picture of each detectable leak per inspection,
- d. The location of each leak,
- e. The analyzer's reading,
- f. Any corrective action taken,
- g. The date corrective action was completed.

[R307-401-8]

II.B.1.c The owner/operator shall develop and implement a written leak-detection-and-repair (LDAR) plan consistent with 40 CFR 60.482-2a (g)(2), 60.482-7a (g)(2) & (3), 60.482-10a (j)(2) & (3), and 60.482-11a (e)(2). [40 CFR 60.482]

II.B.1.d The following limits shall not be exceeded:

429,240,000 gallons (10,220,000 barrels) of crude oil received per rolling 12-month period
229,950,000 gallons (5,475,000 barrels) of crude oil processed in the distillation and wax plants per rolling 12-month period
59,934,420 gallons (1,427,010 barrels) of naphtha produced per rolling 12-month period
32,935,560 gallons (784,180 barrels) of kerosene or jet fuel A produced per rolling 12-month period
71,231,160 gallons (1,695,980 barrels) of diesel fuel produced per rolling 12-month period
66,704,400 gallons (1,588,200 barrels) of heavy fuel oils produced per rolling 12-month period
77,996,122 gallons (1,857,051 barrels) of wax products produced per rolling 12-month period
12,942,930 gallons (308,165 barrels) of vacuum residential fuel oil produced per rolling 12-month period

[R307-401-8]

II.B.1.d.1 A new 12-month total shall be calculated on a monthly basis by summing the monthly totals from the previous consecutive 12 months. Monthly calculations shall be made no later than 20 days after the end of each calendar month. Records of each production shall be kept for all periods when the plant is in operation. The material received, material processed, or finished production shall be determined by examination of company and/or customer billing records in each case. The records of each production shall be kept on a daily basis. [R307-401-8]

- II.B.1.e Prior to commencement of operations, Emery Refining, LLC, shall conduct and submit to the DAQ, for review and approval, air quality dispersion modeling of the refinery, as constructed and proposed to operate. The analysis shall include detailed emission levels and released parameters that accurately represent conditions at the refinery. The dispersion modeling analysis shall address the potential impact of any pollutant emitted in quantities large enough to trigger the requirement for an air quality impact analysis under R307-410-4, and R307-410-5. [R307-410]

- II.B.1.f Emery Refining, LLC shall notify the Director in writing when the installation of the items appearing in the equipment list is complete and is operational. To ensure proper credit when notifying the Director, send your correspondence to the Director, attn: Compliance Section. If the construction and/or installation is not complete within 18 months from the date of this AO, the Director shall be notified in writing on the status of the construction and/or installation. At that time, the Director shall require documentation of the continuous construction and/or installation of the operation. If a continuous program of construction, installation, modification, relocation, or establishment is not proceeding, the Director may revoke the AO. [R307-401-18]

- II.B.2 **The Thermal Oxidizer shall be subject to the following**

 - II.B.2.a Loading of materials shall only occur when the loading signal from the oxidizer is listed as on. [R307-401-8]

 - II.B.2.b The thermal oxidizer shall operate no more than 2,500 hours per rolling 12-month period

The destruction efficiency of the thermal oxidizer shall be at least 98% in terms of the actual amount of pollution created over the uncontrolled amount of pollution created. This shall be measured at the exit of the thermal oxidizer by measuring temperature, on a daily basis and summarized on a rolling 12-month basis. The temperature shall be 1400 F initially and shall be re-evaluated after being in use for six months to determine the temperature that will serve as a basis for ensuring the 98% control efficiency is maintained. The owner/operator shall revisit this issue after operating the unit for six months. [R307-401-8]

 - II.B.2.b.1 A new 12-month total shall be calculated on a monthly basis by summing the monthly totals from the previous consecutive 12 months. Monthly calculations shall be made no later than 20 days after the end of each calendar month. Records of each production shall be kept for all periods when the plant is in operation. Hours of operation shall be determined by supervisors maintaining an operations log. The records of each operation shall be kept on a daily basis. [R307-401-8]

- II.B.3 **The In-Plant Haul Roads shall be subject to the following conditions**

 - II.B.3.a The facility shall comply with all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources. [R307-205]

 - II.B.3.b Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity at any point. Visible emission determinations shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Visible emissions shall be measured at the

densest point of the plume but at a point not less than 1/2 vehicle length behind the vehicle and not less than 1/2 the height of the vehicle. [R307-401-8]

II.B.3.c The in-plant haul roads shall be paved, and shall be periodically swept, or sprayed clean as dry conditions warrant or as determined necessary by the Director. Records of cleaning paved roads shall be kept for periods the plant is in operation. The records shall include the following items:

1. Date of cleaning(s)
2. Time of day that cleaning(s) were performed.

[R307-401-8]

II.B.3.d The owner/operator shall cover all unpaved disturbed areas with road base material and shall use water application to maintain opacity limits listed in this AO. If the temperature is below freezing, the owner/operator may stop applying water to the unpaved haul roads and wheeled-vehicle operational areas. The owner/operator shall resume applying water to the unpaved haul road and wheeled-vehicle operational when the temperature is above freezing. [R307-401-8]

II.B.4 **The Process Boilers and Heaters shall be subject to the following**

II.B.4.a The owner/operator shall only use natural gas as fuel in the crude distillation process boilers and heaters. [R307-401-8]

II.B.4.b The boilers and heaters shall comply with the following emission limits:

SO₂ emissions less than or equal to 20 ppmvd, corrected to 0% O₂, 3-hour rolling average and SO₂ emissions less than or equal to 8 ppmvd, corrected to 0% O₂, 365-day rolling average;

or

H₂S concentration in process off-gas less than or equal to 162 ppmv, 3-hour rolling average and, H₂S concentration in process off-gas less than or equal to 60 ppmv, 365-day rolling average.

[R307-401-8]

II.B.4.b.1 Emery Refining, LLC shall install, calibrate, maintain, and operate a continuous monitoring system to measure the effluent SO₂ emissions from the distillation process boilers or heaters, or

Emery Refining, L.L.C. shall install, calibrate, maintain, and operate a continuous monitoring system to measure the H₂S content in the process off-gas supplied to the various process boilers, or heaters depending on which limit is chosen by Emery Refining, LLC. The monitoring system shall comply with all applicable sections of R307-170. [R307-170]

II.B.5 **The Flare System shall be subject to the following**

II.B.5.a The flare system shall comply with the following emission limits at all times except during unavoidable process upsets or plant emergency:

H₂S concentration in process off-gas not to exceed 162 ppmv, 3-hour rolling average.

[40 CFR 60.103a (h)]

II.B.5.a.1 Emery Refining, LLC shall install, calibrate, maintain, and operate a continuous monitoring system to measure the H₂S content in the process off-gas supplied to the flare device. The monitoring system shall comply with all applicable sections of R307-170 and 40 CFR 60, Appendix B. [40 CFR 60.103a, R307-170]

II.B.6 **The Internal Combustion Engines shall be subject to the following**

II.B.6.a Each engine shall operate for no more than 100 hours per rolling 12-month period when the normal supply of electrical power to the plant is interrupted.
[40 CFR 60.4211 (f)]

II.B.6.a.1 A new 12-month total shall be calculated on a monthly basis by summing the monthly totals from the previous consecutive 12 months. Monthly calculations shall be made no later than 20 days after the end of each calendar month. Records of each operation shall be kept for all periods when the plant is in operation. Hours of operation shall be determined by the use of an hourly operation meter. The records of each operation shall be kept on a daily basis.
[R307-401-8]

II.B.6.b The owner/operator shall not allow visible emissions from the emergency generators and fire pump engines to exceed 20 percent opacity. [R307-201-3]

II.B.6.c The sulfur content shall not exceed:

0.0015 percent by weight for diesel fuels consumed in the internal combustion engines.

[40 CFR 60.4207 (b)]

II.B.6.c.1 The sulfur content shall be determined by ASTM Method D-4294-89 or approved equivalent. Certification of diesel fuels shall be either by Emery Refining, LLC's own testing or test reports from the fuel marketer. [R307-401-8]

II.B.7 **The Material Transfer Equipment shall be subject to the following**

II.B.7.a The product loading rack shall be equipped with a vapor collection system. The gases shall be collected by use of a submersible loading mechanism. Collected gases shall be routed to the thermal oxidizer. [R307-401-8]

Section III: APPLICABLE FEDERAL REQUIREMENTS

In addition to the requirements of this AO, all applicable provisions of the following federal programs have been found to apply to this installation. This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including UAC R307.

NSPS (Part 60), A: General Provisions

NSPS (Part 60), Ja: Standards of Performance for Petroleum Refineries for Which Construction,

Reconstruction, or Modification Commenced After May 14, 2007

NSPS (Part 60), Kb: Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 23, 1984

NSPS (Part 60), GGGa: Standards of Performance for Equipment Leaks of VOC in Petroleum Refineries for Which Construction, Reconstruction, or Modification Commenced After November 7, 2006

NSPS (Part 60), QQQ: Standards of Performance for VOC Emissions From Petroleum Refinery Wastewater Systems

NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

NESHAP (Part 61), A: General Provisions

NESHAP (Part 61), FF: National Emission Standard for Benzene Waste Operations

MACT (Part 63), A: General Provisions

MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

PERMIT HISTORY

The AO will be based on the following documents:

Incorporates	Additional information dated March 11, 2014
Incorporates	Additional information dated February 26, 2014
Incorporates	Additional information dated February 11, 2014
Incorporates	Additional information dated January 27, 2014
Incorporates	Additional information dated January 23, 2014
Incorporates	Additional information dated January 22, 2014
Incorporates	Additional information dated January 21, 2014
Incorporates	Additional information dated December 12, 2013
Incorporates	Additional information dated December 11, 2013
Incorporates	Additional information dated December 6, 2013
Incorporates	Additional information dated December 2, 2013
Incorporates	Additional information dated November 12, 2013
Incorporates	Additional information dated November 6, 2013
Is Derived From	NOI dated October 19, 2013
Supersedes	DAQE-AN146270001-11 dated June 21, 2013

ADMINISTRATIVE CODING

The following information is for UDAQ internal classification use only:

Emery County

CDS B

MACT (Part 63), NESHAP (Part 61), Attainment Area, NSPS (Part 60),

ACRONYMS

The following lists commonly used acronyms as they apply to this document:

40 CFR	Title 40 of the Code of Federal Regulations
AO	Approval Order
BACT	Best Available Control Technology
CAA	Clean Air Act
CAAA	Clean Air Act Amendments
CDS	Classification Data System (used by EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CMS	Continuous monitoring system
CO	Carbon monoxide
CO ₂	Carbon Dioxide
CO ₂ e	Carbon Dioxide Equivalent - 40 CFR Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ	Division of Air Quality (typically interchangeable with UDAQ)
DAQE	This is a document tracking code for internal UDAQ use
EPA	Environmental Protection Agency
FDCP	Fugitive Dust Control Plan
GHG	Greenhouse Gas(es) - 40 CFR 52.21 (b)(49)(i)
GWP	Global Warming Potential - 40 CFR Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/HR	Pounds per hour
MACT	Maximum Achievable Control Technology
MMBTU	Million British Thermal Units
NAA	Nonattainment Area
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emission Standards for Hazardous Air Pollutants
NOI	Notice of Intent
NO _x	Oxides of nitrogen
NSPS	New Source Performance Standard
NSR	New Source Review
PM ₁₀	Particulate matter less than 10 microns in size
PM _{2.5}	Particulate matter less than 2.5 microns in size
PSD	Prevention of Significant Deterioration
PTE	Potential to Emit
R307	Rules Series 307
R307-401	Rules Series 307 - Section 401
SO ₂	Sulfur dioxide
Title IV	Title IV of the Clean Air Act
Title V	Title V of the Clean Air Act
TPY	Tons per year
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds