State of Utah

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Department of
Environmental Quality

L. Scott Baird
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN118080005-20

October 29, 2020

Bill King
Sunroc Corporation
730 North 1500 West
Orem, UT 84057

Dear Mr. King:

Re: Approval Order:
Modification to Approval Order DAQE-AN118080004-16 to Increase Production, add Equipment, and Revise Requirements
Project Number: N118080005

The attached Approval Order (AO) is issued pursuant to the Notice of Intent (NOI) received on June 9, 2020. Sunroc Corporation must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Dylan Frederick**, who can be contacted at (385) 306-6529 or dfrederick@utah.gov. Future correspondence on this AO should include the engineer's name as well as the DAQE number shown on the upper right-hand corner of this letter. Public comments were received and considered on this action.

Sincerely,

Bryce C. Bird
Director

BCB:DF:sb

cc: Southwest Utah Public Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN118080005-20
Modification to Approval Order DAQE-AN118080004-16 to Increase Production, add Equipment, and Revise Requirements

Prepared By
Dylan Frederick, Engineer
(385) 306-6529
dfrederick@utah.gov

Issued to
Sunroc Corporation - Cedar City Asphalt, Aggregate and Concrete Plants

Issued On
October 29, 2020

Issued By

Bryce C. Bird
Director
Division of Air Quality

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GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name
Sunroc Corporation

Source Name
Sunroc Corporation - Cedar City Asphalt, Aggregate and Concrete Plants

Mailing Address
730 North 1500 West
Orem, UT 84057

Physical Address
1970 North Bulldog Road
Cedar City, UT 84721-8671

Source Contact
Name Bill King
Phone (801) 222-3306
Email billking@clydeinc.com

UTM Coordinates
316,891 m Easting
4,175,920 m Northing
Datum NAD83

SIC code 1442 (Construction Sand & Gravel)

SOURCE INFORMATION

General Description
Sunroc Corporation owns an aggregate, asphalt, and concrete facility in Cedar City. Emissions come from site-wide fugitive dust, including conveyors, crushers, screens, bulldozing, and stockpiles. Additional emissions of all criteria pollutants come from the hot mix asphalt plant operations which include the drum mixer, hot oil heater and storage tanks, and the concrete batch plant.

NSR Classification
Minor Modification at Minor Source

Source Classification
Located in Attainment Area,
Iron County
Airs Source Size: B

Applicable Federal Standards
NSPS (Part 60), A: General Provisions
NSPS (Part 60), I: Standards of Performance for Hot Mix Asphalt Facilities
NSPS (Part 60), OOO: Standards of Performance for Nonmetallic Mineral Processing Plants
NSPS (Part 60), IIII: Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
MACT (Part 63), A: General Provisions
MACT (Part 63), ZZZZ: National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines
Title V (Part 70) Area Source

Project Description

Sunroc has requested several additions to their equipment list, as well as an increase in production rates. They will also remove an emergency generator from their equipment list and emission estimates. Facility-wide PTE were re-evaluated as part of this modification based on the updated equipment list and operations. PTE changes are described in Reviewer Comment 1. The following changes were made to the AO:

Changes to Equipment List

1. Jaw Crusher with throughput rating of 250 tph and manufacturing year 2014 changed to "One (1) primary crusher" with no manufacturer year, throughput increased to 450 tph.
2. Cone Crusher, throughput 330 tph, year 1979, and VSI Crusher, throughput 375 tph, year 1984, changed to "Two (2) secondary crushers", no manufacturer year, throughput 450 tph.
3. One (1) Triple-Deck Screen, throughput 600 tph, year 1979, changed to one triple deck screen", throughput 800 tph, no manufacturer year.
4. One (1) 4'X10' Cedar Rapids pugmill changed to One (1) 4'X10' pugmill.
5. One (1) stationary Aztec 40-ton lime silo changed to One (1) stationary 40-ton lime silo. All of the above changes made equipment items more generic so that the facility would not be out of compliance if they used an equivalent piece of equipment that was a different brand name or model.
6. One (1) Gencor burner rated 10 MMBtu/hr removed from the equipment list.
7. Added a 5' X16' scalping screen, two (2) feed bins for RAP, three 35,000-gallon hot oil storage tanks and a 1,100-gallon burner tank to asphalt plant equipment list.
8. Added two (2) guppy and blower compressors to II.A.30, Miscellaneous equipment.
9. Removed One (1) Diesel Fuel Emergency Generator Engine rated 615 hp from the equipment list.
10. Added One (1) Impact Crusher, throughput 450 tph.
11. Some administrative changes to names in equipment list.

Changes to Requirements

1. II.B.2.a was updated to increase aggregate material production from 7,000 tons/day between April 1st and October 31st and 5,000 tons/day the rest of the year to 7,000 tons/day.
2. II.B.3.a was updated to increase aggregate wash plant limits from 400,000 tons per 12-month rolling period, limited to 3,000 tons/day from April 1st - October 31st, and 2,500 tons/day the rest of the year to 600,000 tons per 12-month rolling period, limited to 3,500 tons/day.
3. II.B.6.a removed parts B and C and changed to allow 14 hours of combined operation from bulldozers year round.
4. II.B.6.a.1 removed parts A and B.
5. II.B.9.b increased storage pile area from 10 acres to 20 acres.
6. II.B.14.e increased disturbed area for the asphalt plant from 10 acres to 64 acres.
7. II.B.15.c.1 increased production limit from 200,000 tons of asphalt per 12-month rolling period to 300,000 tons per rolling 12-month period.
8. II.B.15.d was updated and conditions II.B.15.e - II.B.15.f.4 were removed to reflect that only natural gas shall be used in the asphalt plant.

SUMMARY OF EMISSIONS

The emissions listed below are an estimate of the total potential emissions from the source. Some rounding of emissions is possible.

Criteria Pollutant	Change (TPY)	Total (TPY)
CO_2 Equivalent	2701	9645.00
Carbon Monoxide	7.18	31.60
Nitrogen Oxides	1.42	50.47
Particulate Matter - PM_{10}	5.77	33.79
Particulate Matter - $PM_{2.5}$	1.25	13.44
Sulfur Dioxide	0.17	1.29
Volatile Organic Compounds	2.51	8.63

Hazardous Air Pollutant	Change (lbs/yr)	Total (lbs/yr)
Benzene (Including Benzene From Gasoline) (CAS #71432)	40	140
Ethyl Benzene (CAS #100414)	28	88
Formaldehyde (CAS #50000)	319	960
Generic HAPs (CAS #GHAPS)	40	169
Hexane (CAS #110543)	98	310
Quinone (CAS #106514)	0	32
Toluene (CAS #108883)	19	60
Xylenes (Isomers And Mixture) (CAS #1330207)	41	86
	Change (TPY)	**Total (TPY)**
Total HAPs	0.29	0.92

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. Emission Inventories. [R307-150]
I.8	The owner/operator shall submit documentation of the status of construction or modification to the Director within 18 months from the date of this AO. This AO may become invalid if construction is not commenced within 18 months from the date of this AO or if construction is discontinued for 18 months or more. To ensure proper credit when notifying the Director, send the documentation to the Director, attn.: NSR Section. [R307-401-18]

SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	**Cedar City Asphalt, Aggregate and Concrete Plants** Aggregate and Concrete Plants Equipment
II.A.2	**One (1) Primary Crusher** Rated Capacity: 450 tph Applicable Federal Standard: NSPS Subpart OOO
II.A.3	**Two (2) Secondary Crushers** Rated Capacity: 450 tph each Applicable Federal Standard: NSPS Subpart OOO
II.A.4	**One (1) Impact Crusher** Rated Capacity: 450 tph Applicable Federal Standard: NSPS Subpart OOO
II.A.5	**One (1) Triple-Deck Screen** Rated Capacity: 800 tph Manufacture Date: 1998 Applicable Federal Standard: NSPS Subpart OOO
II.A.6	**One (1) Triple-Deck Screen** Rated Capacity: 800 tph
II.A.7	**Various Feeders & Conveyors** Manufactured Prior to 2008 Applicable Federal Standard: NSPS Subpart OOO

II.A.8	**One (1) Triple-Deck Wet Screen** Rated Capacity: 600 tph Applicable Federal Standard: NSPS Subpart OOO
II.A.9	**One (1) Screw Washer**
II.A.10	**One (1) Truck-Mix Concrete Batch Plant** Rated Capacity: 100 cubic yards per hour Weigh Hopper Control Device: Baghouse
II.A.11	**Various Cement & Fly Ash Storage Silos** Control Device: Bin Vent for each Silo
II.A.12	**Various Aggregate Feeder & Storage Bins**
II.A.13	**One (1) Hot Water Heater** Rated Capacity: 4.5 MMBtu/hr Fuel: Natural Gas
II.A.14	**Two (2) Electrical Generator Engines** Power: 731 hp each Fuel: Diesel Fuel Manufacturer Date: 2007 Applicable Federal Standards: NSPS Subpart IIII/MACT Subpart ZZZZ
II.A.15	**Two (2) Diesel Fuel Storage Tanks** Tank Volume: 12,000 gallons each
II.A.16	**Asphalt Plant and Equipment** **Asphalt Plant** One (1) Boeing MS 400 hot mix asphalt plant rated at 400 tons per hour and associated baghouse Applicable Federal Standard: NSPS Subpart I
II.A.17	**Storage Tank 1 for the Asphalt Plant** One (1) 20,000-gallon hot-oil storage tank
II.A.18	**Storage Tank 2 for the Asphalt Plant** One (1) 35,000-gallon hot-oil storage tank with one (1) oil heater
II.A.19	**Storage Tank 3 for Asphalt Plant** Three (3) 35,000-gallon hot oil storage tanks
II.A.20	**Two (2) Feed Bins** Feed bins for RAP
II.A.21	**Oil Heater** One (1) oil heater
II.A.22	**Storage Tank for the Asphalt Plant** Two (2) 1,100-gallon burner tanks
II.A.23	**Silos** Two (2) 200-ton Standard Haven silos Applicable Federal Standard: NSPS Subpart I

II.A.24	**Pump** One (1) 4" Flyte submersible pump, for information only
II.A.25	**Screen for the Asphalt Plant** One (1) 3'x6' scalping screen Applicable Federal Standard: NSPS Subpart I
II.A.26	**Screen for the Asphalt Plant** One (1) 5' X 16' scalping screen Applicable Federal Standard: NSPS Subpart I
II.A.27	**Bins** Four (4) cold feed bins Applicable Federal Standard: NSPS Subpart I
II.A.28	**Pugmill** One (1) 4'x10' pugmill Applicable Federal Standard: NSPS Subpart I
II.A.29	**Silo** One (1) stationary 40-ton lime silo Applicable Federal Standard: NSPS Subpart I
II.A.30	**Conveyors** Miscellaneous conveyor belts associated in asphalt plant operations Applicable Federal Standard: NSPS Subpart I
II.A.31	**Miscellaneous Equipment** Including front-end loaders, water and haul trucks, pumps, compressor, guppy and blower compressor.
II.A.32	**One (1) Oil Heater** Rating: <5MMBtu/hr Fuel: Natural Gas *Listed for informational purposes only

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	**The Cedar City Asphalt, Aggregate and Concrete processing facility shall be subject to the following:**
II.B.1.a	Unless otherwise specified in this AO, the owner/operator shall not allow visible emissions from any source on site to exceed 20 percent opacity. [R307-201-3]
II.B.1.a.1	Unless otherwise specified in this AO, opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-201-3]
II.B.2	**The Aggregate Processing Plant and Associated Equipment on site shall be subject to the following:**
II.B.2.a	The owner/operator shall not produce more than 1,000,000 tons of aggregate material, including bank-run material, per rolling 12-month period; and shall not produce more than 7,000 tons of aggregate material, including bank-run material, per day. [R307-401-8]

II.B.2.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th 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 belt scale records, scale house records, or bucket scale records. The records of production shall be kept on a daily basis. [R307-401-8]
II.B.2.a.2	The owner/operator shall weigh and account for all aggregate material prior to the aggregate material leaving the site or being used in another process on site. [R307-401-8]
II.B.2.b	The owner/operator shall only operate the aggregate processing plant between 5:00 am and 9:00 pm each day. [R307-401-8]
II.B.2.b.1	Hours of operation shall be determined by maintaining an operations log. The records of operation shall be kept on a daily basis and shall include the time the aggregate processing plant starts operation and the time the aggregate processing plant ceases operation. [R307-401-8]
II.B.2.c	The owner/operator shall install and operate a feeder and conveyor transfer system in the bulldozing area. The feeder shall be loaded with aggregate material in the bulldozing area, and the conveyor transfer system shall transport all aggregate material to be processed, to the main aggregate processing plant. A loader shall not be used to transfer material from the bulldozing area to the main aggregate plant. [R307-401-8]
II.B.3	**The Aggregate Wash Plant and Associated Equipment on site shall be subject to the following:**
II.B.3.a	The owner/operator shall not produce more than 600,000 tons of washed aggregate per rolling 12-month period, and shall not produce more than 3,500 tons of washed aggregate per day. [R307-401-8]
II.B.3.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th 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 of washed aggregate shall be determined by belt scale records or scale house records. The records of production shall be kept on a daily basis. [R307-401-8]
II.B.3.a.2	The owner/operator shall weigh and account for all washed aggregate material prior to the washed aggregate material leaving the site or being used in another process on site. [R307-401-8]
II.B.3.b	The owner/operator shall not transport aggregate material processed in the wash plant offsite before 5:00 am and after 9:00 pm each day. [R307-401-8]
II.B.4	**The Central Mix Concrete Batch Plant shall be subject to the following:**
II.B.4.a	The owner/operator shall not produce more than 200,000 cubic yards of concrete per rolling 12-month period and shall not produce more than 2,000 cubic yards of concrete per day. [R307-401-8]
II.B.4.a.1	To determine compliance with a rolling 12-month total the owner/operator shall calculate a new 12-month total by the 20th 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 scale house records or sales records. The records of production shall be kept on a daily basis. [R307-401-8]
II.B.4.b	The owner/operator shall use a baghouse to control emissions from the weigh hopper loading of the concrete batch plant. Displaced air from the hopper shall pass through the baghouse before being vented to the atmosphere. [R307-401-8]

II.B.4.c	The owner/operator shall install a fabric filter device on all material storage silos associated with the concrete batch plant. Displaced air from the silos shall pass through the fabric filter devices before being vented to the atmosphere. [R307-401-8]
II.B.4.d	The owner/operator shall not allow visible emissions from the concrete batch plant baghouse or fabric filters on site to exceed 10 percent opacity. [R307-401-8]
II.B.4.e	The owner/operator shall not operate the Hot Water Heater for more than 3,060 hours per rolling 12-month period. [R307-401-8]
II.B.4.e.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401-8]
II.B.4.f	The owner/operator shall not allow visible emissions from the hot water heater on site to exceed 10 percent opacity. [R307-401-8]
II.B.5	**All Stationary Engines on site shall be subject to the following:**
II.B.5.a	All stationary diesel engines on site shall not exceed 3,753,900 horsepower-hours (hp-hrs) of operation combined per rolling 12-month period. [R307-401-8]
II.B.5.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total for each day of the previous month by the 20th day of each month using data from the previous 12 months. To determine the total hp-hrs for the facility, the owner/operator shall multiply the horsepower of the engine and the hours operated for that engine for each day and add the total hp-hrs of all the engines together. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log for each engine. Records of hp-hrs shall include the following: A. The horsepower of each engine B. The hours operated of each engine C. The hp-hrs for each engine D The total hp-hrs for the entire facility [R307-401-8]
II.B.5.b	The owner/operator shall not operate the stationary diesel engines on site before 5:00 am and after 9:00 pm each day. [R307-401-8]
II.B.5.b.1	Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of operation shall be kept on a daily basis and shall include the time each engine starts operation and the time each engine ceases operation. [R307-401-8]
II.B.5.c	The owner/operator shall only use diesel fuel (e.g. fuel oil #1, #2, or diesel fuel oil additives) as fuel in the stationary diesel engines. [R307-401-8]
II.B.5.d	The owner/operator shall only combust diesel fuel that meets the definition of ultra-low sulfur diesel (ULSD), which has a sulfur content of 15 ppm or less. [R307-401-8]
II.B.5.d.1	To demonstrate compliance with the ULSD fuel requirement, the owner/operator shall maintain records of diesel fuel purchase invoices or obtain certification of sulfur content from the diesel fuel supplier. The diesel fuel purchase invoices shall indicate that the diesel fuel meets the ULSD requirements. [R307-401-8]

II.B.6	**The Bulldozing Operations on site shall be subject to the following:**
II.B.6.a	The owner/operator shall not allow bulldozing operations to exceed 14 hours of operation combined for all bulldozers on site per day. [R307-401-8]
II.B.6.a.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th day of each month using data from the previous 12 months. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. The records of operation shall be kept on a daily basis. Records shall include the total hours of operation for all bulldozers each day. [R307-401-8]
II.B.7	**All Haul Roads associated with aggregate and concrete plant operations on site shall be subject to the following:**
II.B.7.a	The owner/operator shall pave all haul roads on site, and all haul trucks shall only travel on paved haul roads. [R307-401-8]
II.B.7.b	An operational vacuum sweeper and water truck shall be made available during each operating day. The owner/operator shall vacuum sweep and flush with water all the paved haul roads on site to maintain opacity limits listed in this AO. The owner/operator may stop flushing the paved haul roads with water when the temperature is below freezing, and the owner/operator may stop vacuum sweeping the paved haul roads when the haul roads are covered with snow or ice. [R307-401-8]
II.B.7.b.1	Records of vacuum sweeping and water application shall be kept for all periods when the plant is in operation. The records shall include the following items: A. Date and time treatments were made B. Number of treatments made and quantity of water applied C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing E. Records shall note if the paved haul roads are covered with snow or ice. . [R307-401-8]
II.B.8	**All Loader Routes associated with aggregate and concrete plant operations on site shall be subject to the following:**
II.B.8.a	The combined unpaved haul road length on site associated with all aggregate operations shall not exceed 0.4 miles. [R307-401-8]
II.B.8.a.1	To determine compliance with the haul road lengths on site, the owner/operator shall use a handheld GPS, aerial photographs, or other methods acceptable to the Director, to measure the lengths of haul roads and loader operation areas, and shall maintain a record of the total length of the haul road. Records of the total length of haul roads shall contain the following: A. Date of measurements B. Length of the haul road. [R307-401-8]
II.B.8.b	The owner/operator shall cover all loader routes and wheeled-vehicle operational areas with road-base material and shall use water application to maintain opacity limits listed in this AO. The owner/operator may stop applying water to the loader routes and wheeled-vehicle operational areas when the temperature is below freezing. [R307-401-8]

II.B.8.b.1	Records of water application shall be kept for all periods when the plant is in operation. The records shall include the following items: A. Date and time treatments were made B. Number of treatments made and quantity of water applied C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing . [R307-401-8]
II.B.9	**All Haul Roads and Fugitive Dust Sources associated with aggregate and concrete plant operations on site shall be subject to the following:**
II.B.9.a	The owner/operator shall not allow visible emissions from haul roads and fugitive dust sources on site to exceed 20 percent opacity at all times. [R307-205-4]
II.B.9.a.1	Visible emission determinations for fugitive dust emissions from haul-road traffic and mobile equipment in operational areas 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. [R307-205-4]
II.B.9.b	The combined area occupied by all storage piles on site associated with aggregate processing and concrete plants shall not exceed 20.0 acres. [R307-401-8]
II.B.9.b.1	To determine compliance with the total acres of the storage piles, the owner/operator shall measure the total area of the storage piles at least once every six (6) months and shall maintain a record of the total acres of the storage piles. To determine the acres of the storage piles on site, the owner/operator shall use a handheld GPS unit and travel around the base of each storage pile on site to calculate the area of each storage pile on site. Records of the total acres of the storage piles shall contain the following: A. Date of measurements B. Size of each storage pile on site C. Total acres of all storage piles combined. [R307-401-8]
II.B.9.c	The owner/operator shall install water sprays on all unenclosed conveyor drop points on site. The owner/operator shall apply water from conveyor sprays and water trucks to all storage piles on site to control fugitive emissions. Sprays shall operate as required to maintain the opacity limits listed in this AO when the temperature is above freezing. [R307-401-8]
II.B.9.d	The owner/operator shall comply with all applicable requirements of R307-205 for Fugitive Emission and Fugitive Dust sources on site. [R307-205]
II.B.10	**All Crushers on site shall be subject to the following:**
II.B.10.a	The owner/operator shall not allow visible emissions from any crusher manufactured prior to April 22, 2008, to exceed 15 percent opacity, or manufactured on or after April 22, 2008, to exceed 12 percent opacity. [40 CFR 60 Subpart OOO, R307-401-8]

II.B.10.b	The owner/operator shall install water sprays on all crushers on site to control fugitive emissions. Sprays shall operate as required to maintain the opacity limits listed in this AO when the temperature is above freezing. [R307-401-8]
II.B.11	**All Screens used in the aggregate plants shall be subject to the following:**
II.B.11.a	The owner/operator shall not allow visible emissions from any screen manufactured prior to April 22, 2008, to exceed 10 percent opacity, or manufactured on or after April 22, 2008, to exceed 7 percent opacity. [40 CFR 60 Subpart OOO, R307-401-8]
II.B.11.b	The owner/operator shall install water sprays on all screens on site to control fugitive emissions. Sprays shall operate as required to maintain the opacity limits listed in this AO when the temperature is above freezing. [R307-401-8]
II.B.12	**All Conveyors on site shall be subject to the following:**
II.B.12.a	The owner/operator shall not allow visible emissions from any conveyor (used in the aggregate plants and manufactured prior to April 22, 2008) transfer point on site to exceed 10 percent opacity, or any conveyor (used in the aggregate plants and manufactured on or after April 22, 2008) transfer point on site to exceed 7 percent opacity. [40 CFR 60 Subpart OOO]
II.B.12.b	The owner/operator shall not allow visible emissions from any conveyor (used in the concrete plant) transfer point on site to exceed 10 percent opacity. [R307-401-8]
II.B.12.c	The owner/operator shall not allow visible emissions from any conveyor drop point on site to exceed 20 percent opacity. [R307-205-4]
II.B.12.d	The owner/operator shall install water sprays on all unenclosed conveyor transfer points on site to control fugitive emissions. Sprays shall operate as required to maintain the opacity limits listed in this AO when the temperature is above freezing. [R307-401-8]
II.B.13	**All NSPS Subpart OOO affected Crushers, Screens, and Conveyors on site shall be subject to the following:**
II.B.13.a	The owner/operator shall conduct an initial performance test for all crushers, screens, and conveyor transfer points on site within 60 days after achieving the maximum production rate but not later than 180 days after initial startup. Performance tests shall meet the limitations specified in Table 3 to Subpart OOO. Records of initial performance tests shall be kept and maintained on site for the life of the equipment. [40 CFR 60 Subpart OOO]
II.B.13.a.1	Initial performance tests for fugitive emissions limits shall be conducted according to 40 CFR 60.675(c). The owner/operator may use methods and procedures specified in 40 CFR 60.675(e) as alternatives to the reference methods and procedures specified in 40 CFR 60.675(c). [40 CFR 60 Subpart OOO]
II.B.13.a.2	The owner/operator shall submit written reports to the Director of the results of all performance tests conducted to demonstrate compliance with the standards set forth in 40 CFR 60.672. [40 CFR 60 Subpart OOO]

II.B.14	**Requirements on Equipment and Activities Associated with the Asphalt Plant**
II.B.14.a	Visible emissions from the following emission points shall not exceed the following values: A. The scalping screen - 10% opacity B. All conveyor transfer points - 10% opacity C. The baghouse stack - 10% opacity D. All conveyor drop points - 20% opacity E. All silo bin vents - 10% opacity F. The HMA burner - 10% opacity. [R307-401-8]
II.B.14.b	The owner/operator shall not exceed 0.21 miles in unpaved loader operating areas. The owner/operator shall pave 0.61 miles of the haul roads at a minimum. [R307-401-8]
II.B.14.c	The owner/operator shall use chemical suppressant and/or water to control fugitive dust emissions from the unpaved loader operating areas. Application of water and/or chemical suppressant shall be frequent enough to maintain the opacity limits in this AO. [R307-401-8]
II.B.14.c.1	Records of water application shall be kept for all periods when the plant is in operation. The records shall include the following items: A. Date and time treatments were made B. Number of treatments made and quantity of water applied C. Rainfall amount received, if any D. Records of temperature, if the temperature is below freezing If the temperature is below freezing, the owner/operator may stop applying water to the haul roads and wheeled-vehicle operational areas. [R307-401-8]
II.B.14.d	Visible fugitive dust emissions from haul-road traffic and mobile equipment in unpaved operational areas shall not exceed 20% opacity at any point. [R307-401-8]
II.B.14.d.1	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.14.e	The total disturbed areas for the facility combined shall not exceed 64 acres. [R307-401-8]

II.B.14.e.1	To determine compliance with the total acres of disturbed areas, the owner/operator shall measure the total area of the disturbed ground at least once every six (6) months and shall maintain a record of the total acres of disturbed area. To determine the acres of disturbed area on site, the owner/operator shall use aerial photographs, land surveys, on-site measurements, GPS technology, or other methods as approved by the Director. Records of the total acres of disturbed area shall contain the following: A. Date of measurements B. Size of each disturbed area on site C. Total acres of all disturbed area combined. [R307-401-8]
II.B.15	**Asphalt Plant and Baghouse Requirements**
II.B.15.a	The owner/operator shall control emissions from the asphalt plant with a baghouse. [R307-401-8]
II.B.15.b	The owner/operator shall not allow visible emissions from the baghouse to exceed 10% opacity. [R307-401-8]
II.B.15.c	The owner/operator shall install a manometer or magnehelic pressure gauge to measure the differential pressure across the baghouse. The static pressure differential across the baghouse shall be maintained between two (2) and six (6) inches of water column. The monitoring device shall measure the differential pressure in increments of one (1) inch of water column or less. [R307-401-8]
II.B.15.c.1	Pressure drop readings shall be recorded at least once during each week of operation while the baghouse is operating. Records documenting the pressure drop shall be kept in a log and shall include the following: A. Unit identification; B. Weekly pressure drop readings; C. Date of reading. [R307-401-8]
II.B.15.c.2	Each pressure gauge shall be located such that an inspector/operator can safely read the indicator at any time. [R307-401-8]
II.B.15.c.3	The instrument shall be calibrated in accordance with the manufacturer's instructions or recommendations or replaced at least once every 12 months. Documentation of calibrations shall be maintained. [R307-401-8]

II.B.15.d	Emissions to the atmosphere from the indicated emission point shall not exceed the following rates and concentrations: Source: Drum Mix Asphalt Plant Baghouse Stack Pollutant lb/hr grains/dscf PM_{10} 5.12 0.02 PM_{10} (RAP) 5.97 0.028. [R307-401-8]
II.B.15.d.1	**Standard Conditions & Emission Limit Parameters** A. Temperature - 68 degrees Fahrenheit (293 K) B. Pressure - 29.92 in Hg (101.3 kPa) C. Concentration (ppmdv) - 3% oxygen, dry basis D. Averaging Time - As specified in the applicable test method. [40 CFR 60 Subpart A, 40 CFR 63 Subpart A, R307-401-8]
II.B.15.e	To demonstrate compliance with the emission limitations above, the owner/operator shall conduct emission testing (stack testing) as outlined below. [R307-401-8]
II.B.15.e.1	**Test Frequency** The owner/operator shall conduct subsequent emission tests within five (5) years after the date of the most recent emission test. The Director may require the owner/operator to perform an emission test at any time. [R307-165-2, R307-401-8]
II.B.15.e.2	**Notification** At least 30 days prior to conducting an emission test, the owner/operator shall submit a source test protocol to the Director. The source test protocol shall include: A. The date, time, and place of the proposed test B. The proposed test methodologies C. The stack to be tested D. The procedures to be used E. Any deviation from an EPA-approved test method F. Explanation of any deviation from an EPA-approved test method If directed by the Director, the owner/operator shall attend a pretest conference. [R307-165-3, R307-401-8]

II.B.15.e.3	**Testing** The owner/operator shall conduct testing according to the approved source test protocol. The Director may reject emission test data if the test did not follow the approved source test protocol or if Director was not provided an opportunity to have an observer present at the test. [R307-165-5, R307-401-8]
II.B.15.e.4	**Access** The owner/operator shall provide Occupational Safety and Health Administration (OSHA)- or Mine Safety and Health Administration (MSHA)-approved access to the test location. [R307-401-8]
II.B.15.e.5	**Test Conditions** The owner/operator shall conduct all tests while the source is operating at the maximum production or combustion rate at which the source will be operated unless otherwise specified in the approved source test protocol. During the tests, the owner/operator shall burn fuels or combinations of fuels, use raw materials, and maintain process conditions representative of normal operations. In addition, the owner/operator shall operate under any other relevant conditions that the Director specifies. [R307-165-4, R307-401-8]
II.B.15.e.6	**Reporting** Within 60 days after completing an emission test, the owner/operator shall submit a copy of the test results to the Director. [R307-401-8]
II.B.15.e.7	**Possible Rejection of Test Results** The Director may reject emissions test data if they are determined to be incomplete, inadequate, not representative of operating conditions specified for the test, or if the Director was not provided an opportunity to have an observer present at the test. [R307-401-8]
II.B.15.f	**Test Methods** When performing emission testing, the owner/operator shall use the appropriate EPA-approved test methods as acceptable to the Director. Acceptable test methods for pollutants are listed below. [R307-401-8]
II.B.15.f.1	**PM_{10}** Total PM_{10} = Filterable PM_{10} Filterable PM_{10} 40 CFR 60, Appendix A, Method 5; 40 CFR 51, Appendix M, Method 201; Method 201A; or other EPA-approved testing method as acceptable to the Director. If other approved testing methods are used which cannot measure the PM_{10} fraction of the filterable particulate emissions, all of the filterable particulate emissions shall be considered PM_{10}. [R307-401-8]
II.B.15.g	The amount of recycled asphalt used in the asphalt production shall not exceed 50% of the total product at any time. Compliance shall be determined by the hourly amount of recycled product introduced to the plant divided by the actual hourly production of the plant. Daily records maintained on site shall include: A. Total production B. Amount of recycled asphalt used in the total production C. Daily calculations of the percent recycled used in the total production. [R307-401-8]

II.B.15.h	The owner/operator shall not exceed the following limits: A. 300,000 tons of asphalt produced per rolling 12-month period. B. 4,000 hours of asphalt plant operation per rolling 12-month period. [R307-401-8]
II.B.15.h.1	To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the 20th 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 scale house records or vendor receipts. The records of production shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log. [R307-401-8]
II.B.15.i	The owner/operator shall use natural gas as fuel in the asphalt plant. [R307-401-8]
II.B.16	**Requirements on the Silo Bin Vents for the Asphalt Plant**
II.B.16.a	The owner/operator shall not allow visible emissions from the bin vent stacks to exceed 10% opacity. [R307-401-8]
II.B.16.b	All displaced air from the asphalt plant lime silos shall pass through a fabric filter device (bin vent) before being vented to the atmosphere. [R307-401-8]

PERMIT HISTORY

This Approval Order shall supersede (if a modification) or will be based on the following documents:

Supersedes	DAQE-AN118080004-16 dated June 29, 2016
Is Derived From	NOI dated August 14, 2019
Is Derived From	NOI dated May 13, 2020
Is Derived From	NOI dated June 9, 2020
Incorporates	Additional Information dated August 21, 2019
Incorporates	Additional Information dated September 6, 2019
Incorporates	Additional Information dated December 5, 2019
Incorporates	Additional Information dated January 27, 2020
Incorporates	Additional Information dated January 17, 2020
Incorporates	Additional Information dated March 13, 2020

ACRONYMS

The following lists commonly used acronyms and associated translations 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 Environmental Protection Agency 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_2e	Carbon Dioxide Equivalent - Title 40 of the Code of Federal Regulations Part 98, Subpart A, Table A-1
COM	Continuous opacity monitor
DAQ/UDAQ	Division of Air Quality
DAQE	This is a document tracking code for internal Division of Air Quality use
EPA	Environmental Protection Agency
FDCP	Fugitive dust control plan
GHG	Greenhouse Gas(es) - Title 40 of the Code of Federal Regulations 52.21 (b)(49)(i)
GWP	Global Warming Potential - Title 40 of the Code of Federal Regulations Part 86.1818-12(a)
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
LB/YR	Pounds per year
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
VOC	Volatile organic compounds