



State of Utah

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Department of
Environmental Quality

Amanda Smith
Executive Director

DIVISION OF AIR QUALITY
Cheryl Heying
Director

DAQE-IN0141720001-09

October 15, 2009

Russell Leslie
Sunroc Corporation
730 North 1500 West
PO Box 538
Orem, UT 84057

Dear Mr. Leslie:

Re: Intent to Approve: New Aggregate Processing and Hot Mix Asphalt Plant
Washington County; CDS SM; Attainment Area, MACT (Part 63), NSPS (Part 60)
Project Number: N014172-0001

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. Alan Humpherys, who may be reached at (801) 536-4142.

Sincerely,

Timothy R. Andrus, Manager
Minor New Source Review Section

TRA:AH:sa

cc: Mike Owens
Southwest Utah Public Health Department

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**INTENT TO APPROVE: New Aggregate Processing and
Hot Mix Asphalt Plant**

**Prepared By: Mr. Alan Humpherys, Engineer
Phone: (801) 536-4142
Email: ahumpherys@utah.gov**

INTENT TO APPROVE NUMBER

DAQE-IN0141720001-09

Date: October 15, 2009

**Sunroc Corporation
Pintura Aggregate and Hot Mix Asphalt Plant**

**Source Contact:
Mr. Brian Harris, Environmental Contact
Phone: (801) 802-6954**

**Timothy R. Andrus, Manager
Minor New Source Review Section
Utah Division of Air Quality**

ABSTRACT

Sunroc Corporation currently operates a portable aggregate processing plant in Pintura, Washington County, Utah under AO DAQE-672-00 and temporary relocation letter DAQC-184-08. Sunroc Corporation has requested to make this site a permanent site and to construct a hot mix asphalt plant at this site. The facility will produce up to 1,000,000 tons per year of aggregate material where up to 600,000 tons of that material will be processed through a wash plant. The facility will also produce 300,000 tons per year of hot mix asphalt. Four diesel generators will supply power to the facility. A dispersion modeling analysis was performed for NO₂, PM₁₀, and various HAPs emitted from the facility. The predicted total concentrations for NO₂ and PM₁₀ were found to be less than their respective NAAQS, and all HAP concentrations were found to be less than their respective Toxic Screening Levels.

Washington County is an attainment area of the NAAQS for all pollutants. 40 CFR 60 Subparts A, I, OOO, and IIII and 40 CFR 63 Subparts A and ZZZZ regulations apply to this source. 40 CFR 61 regulations do not apply to this source. Title V of the 1990 Clean Air Act applies to this source, and this source is considered a Title V Area Source.

The emissions from the facility will result in the following, in tons per year, potential to emit totals: PM₁₀ = 19.07, NO_x = 98.34, SO₂ = 10.24, CO = 40.64, VOC = 9.73, HAPs = 1.69

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 Executive Secretary of the Utah Air Quality Board.

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 Daily Spectrum on October 18, 2009. 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, 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:

Sunroc Corporation
730 North 1500 West
PO Box 538
Orem, UT 84057

Permitted Location:

Sunroc Corporation: Pintura Aggregate and Hot
Mix Asphalt Plant
0.5-Mile South of Exit 31 off I-15
Pintura, UT 84720

UTM coordinates: 298,855 m Easting, 4,134,494 m Northing
SIC code: 1442 (Construction Sand & Gravel)

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 Executive Secretary or Executive Secretary'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]
- 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 Executive Secretary which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source. All maintenance performed on equipment authorized by this AO shall be recorded. [R307-401-4]
- I.6 The owner/operator shall comply with R307-150 Series. Inventories, Testing and Monitoring. [R307-150]
- I.7 The owner/operator shall comply with UAC R307-107. General Requirements: Unavoidable Breakdowns. [R307-107]

Section II: SPECIAL PROVISIONS

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

- II.A.1 **Aggregate and Hot Mix Asphalt Plant**
- II.A.2 **One (1) Hot Mix Asphalt Drum Mixer with Burner**
Rated Capacity: 500 tons per hour
- II.A.3 **One (1) Asphalt Plant Baghouse**
Rated Capacity: 110,000 acfm
Cleaning Mechanism: Reverse Air
- II.A.4 **One (1) Lime Storage Silo**

- II.A.5 **Various Feed Bins and Storage Silos**
Contents: Aggregate and Hot Mix Asphalt

- II.A.6 **Two (2) Hot Oil Heaters**
Burner Rating: 2.8 MMBTU/hr each
Includes jacket lines & drag slat

- II.A.7 **One (1) Grizzly Feeder/Screen**
Rated Capacity: 750 tons per hour
Manufacture Date: 1989

- II.A.8 **One (1) Jaw Crusher**
Rated Capacity: 375 tons per hour
Manufacture Date: 1989

- II.A.9 **One (1) Cone Crusher**
Rated Capacity: 330 tons per hour
Manufacture Date: 1987

- II.A.10 **One (1) VSI Crusher**
Rated Capacity: 250 tons per hour
Manufacture Date: 2002

- II.A.11 **Two (2) 600 tph Triple-Deck Screens**
Rated Capacity: 600 tons per hour each
Manufacture Date: 1998 each

- II.A.12 **One (1) 330 tph Triple-Deck Screen**
Rated Capacity: 330 tons per hour
Manufacture Date: 1992

- II.A.13 **Various Scalping Screens**
Manufacture Date: prior to 2008

- II.A.14 **Various Conveyors**
Manufacture Date: prior to 2008

- II.A.15 **Two (2) Wet Screens**
Rated Capacity: 600 tons per hour each

- II.A.16 **Various Wash Plant Equipment**
Two (2) Log Washers
One (1) Washer Clarifier
One (1) Classifier
Two (2) Screw Washers

- II.A.17 **Two (2) Aggregate Plant Generators**
Power Output: 831 hp each

- II.A.18 **Two (2) Electrical Generators**
Power Output: 670.5 hp each

- II.A.19 **Various Small Diesel Engines**
Power Output: < 25 hp

- II.A.20 **Various Organic Liquid Storage Tanks**
One (1) 30,000-gallon Storage Tank containing Asphalt Cement
Three (3) 20,000-gallon Storage Tanks containing Asphalt Cement
One (1) 10,000-gallon Storage Tank containing Burner Fuel 1 (Waste Oil or Diesel)
Two (2) 12,000-gallon Storage Tanks containing Diesel Fuel

II.B Requirements and Limitations

II.B.1 **The Pintura Aggregate and Hot Mix Asphalt Facility shall be subject to the following**

II.B.1.a Sunroc Corporation shall notify the Executive Secretary in writing when the installation of the equipment listed in this AO has been completed and is operational. To ensure proper credit when notifying the Executive Secretary, send your correspondence to the Executive Secretary, attn: Compliance Section.

If the owner/operator has not notified the Executive Secretary in writing within 18 months from the date of this AO on the status of the construction and/or installation, the Executive Secretary shall require documentation of the continuous construction and/or installation of the operation. If a continuous program of construction and/or installation is not proceeding, the Executive Secretary may revoke the AO. [R307-401-18]

II.B.1.b 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.b.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 Bulldozing Operations on site shall be subject to the following**

II.B.2.a The hours of operation for all bulldozers at the facility shall not exceed 3,000 hours combined per rolling 12-month. [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 twentieth day of each month using data from the previous 12 months. The hours of operation of each bulldozer shall be added together to determine the total hours. 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. [R307-401-8]

II.B.3 **The Paved Haul Roads on site shall be subject to the following**

II.B.3.a The owner/operator shall pave the haul road from the site entrance to the aggregate plant, the wash plant, and the hot mix asphalt plant with concrete or asphalt. The total length of all paved haul roads on site shall not be less than 4,000 feet combined. [R307-401-8]

II.B.3.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. If the temperature is below freezing, the owner/operator shall continue to vacuum sweep the road but may stop flushing the paved haul roads with water. Flushing the paved haul road with water shall resume when the temperature is above freezing. If the haul roads are covered with snow or ice, the owner/operator may stop vacuum sweeping the paved haul roads. Vacuum sweeping the paved haul roads shall resume when the haul roads are cleared from snow and ice. [R307-401-8]

II.B.3.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.4 **The Unpaved Haul Roads on site shall be subject to the following**

II.B.4.a The owner/operator shall cover all unpaved haul roads and wheeled-vehicle operational areas with road base material, and an operational water truck shall be made available during each operating day. The owner/operator 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 roads and wheeled-vehicle operational areas when the temperature is above freezing. [R307-401-8]

II.B.4.a.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.5 **All Haul Roads and Fugitive Dust Sources on site shall be subject to the following**

II.B.5.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.5.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.5.b The combined area occupied by all storage piles on site shall not exceed 5.0 acres. [R307-401-8]

II.B.5.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 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. The area of each storage pile shall be added together to obtain the total area of all the storage piles 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.5.c The owner/operator shall install water sprays on all 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. The owner/operator may stop the water sprays when the temperature is below freezing. [R307-401-8]

II.B.5.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.6 **The Hot Mix Asphalt Plant (HMAP) and Associated Equipment on site shall be subject to the following**

II.B.6.a The HMAP shall not produce more than 300,000 tons of hot mix asphalt per rolling 12-month period and 7,200 tons of hot mix asphalt per day based from midnight to midnight. [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 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 belt scale records or scale house records. The records of production shall be kept on a daily basis. [R307-401-8]
- II.B.6.a.2 The owner/operator shall weigh and account for all hot mix asphalt prior to the hot mix asphalt leaving the site. [R307-401-8]
- II.B.6.b The owner/operator shall use one 670.5 hp electrical generator to supply power to the HMAP. [R307-401-8]
- II.B.6.c The HMAP baghouse shall control process streams from the drum mixer. This baghouse shall be sized to handle at least 110,000 acfm for the existing conditions. All exhaust air from the HMAP drum mixer shall be routed through the baghouse before being vented to the atmosphere. [R307-401-8]
- II.B.6.d The HMAP baghouse exhaust stacks shall vent vertically unrestricted at a height no less than 13 feet, as measured from ground level. [R307-401-8]
- II.B.6.e A manometer or magnehelic pressure gauge shall be installed to measure the differential pressure across the HMAP baghouse. Static pressure differential across the baghouse shall be between 1.5 to 4.0 inches of water column. The pressure gauge shall be located such that an inspector/operator can safely read the indicator at any time. The reading shall be accurate to within plus or minus 0.5 inches water column. The instrument shall be calibrated according to the manufacturer’s instructions at least once every 12 months. Continuous recording of the reading is not required; however, the owner/operator shall record the gauge reading in an operations log at least once per operating day. [R307-401-8]
- II.B.6.e.1 The operations log shall include the gauge reading, the date of each reading, and the time of day of each reading. [R307-401-8]
- II.B.6.f The owner/operator shall not allow visible emissions from the hot mix asphalt plant baghouse on site to exceed 10 percent opacity. [R307-401-8]
- II.B.6.g Emissions to the atmosphere from the HMAP Baghouse Exhaust Stack shall not exceed the following rates and concentrations:

Pollutant	lb/hr	grain/dscf (68 degrees F, 29.92 in Hg)
TSP (virgin & RAP)	13.35	0.025
PM ₁₀ (virgin & RAP)	10.68	0.020. [R307-401-8]

II.B.6.g.1 Stack testing to show compliance with the emission limitations stated in the above condition shall be performed as specified below:

Emission Point: HMAP Baghouse Exhaust Stack

Pollutant	Testing Status	Test Frequency
TSP (virgin & RAP)	*	#
PM ₁₀ (virgin & RAP)	*	@

* Initial compliance testing is required for each pollutant. The initial test date shall be performed as soon as possible and in no case later than 180 days after the start up of a new emission source, an existing source without an AO, or the granting of an AO to an existing emission source that is modified. A compliance test is required on the modified emission point that has an emission rate limit. Compliance testing shall not be required for both virgin and recycled materials during the same testing period. Testing shall be performed for the product being produced during the time of testing.

Initial test is required. Subsequent tests shall only be performed for PM₁₀.

@ Test every five years or sooner if directed by the Executive Secretary. Tests may be required if the source is suspected to be in violation with other conditions of this AO. Compliance testing shall not be required for both virgin and recycled materials during the same testing period. Testing shall be performed for the product being produced during the time of testing. [R307-165]

II.B.6.g.2 Notification:

At least 30 days prior to conducting any emission testing required under any part of UAC, R307, the owner or operator shall notify the Executive Secretary of the date, time and place of such testing and, if determined necessary by the Executive Secretary, the owner or operator shall attend a pretest conference. A source test protocol shall be submitted to DAQ when the testing notification is submitted to the Executive Secretary. The source test protocol shall be approved by the Executive Secretary 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 Executive Secretary. The pretest conference shall include representation from the owner/operator, the tester, and the Executive Secretary. [R307-165]

II.B.6.g.3 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 Executive Secretary. An Occupational Safety and Health Administration (OSHA) or Mine Safety and Health Administration (MSHA) approved access shall be provided to the test location. [R307-401]

II.B.6.g.4 Volumetric Flow Rate:

40 CFR 60, Appendix A, Method 2 or other testing methods approved by the Executive Secretary. [R307-401]

II.B.6.g.5 TSP:

40 CFR 60, Appendix A, Method 5. [40 CFR 60 Subpart I]

II.B.6.g.6 PM₁₀:

For stacks in which no liquid drops are present, the following methods shall be used: 40 CFR 51, Appendix M, Methods 201 or 201a. The back half condensables shall also be tested using the method specified by the Executive Secretary. All particulate captured shall be considered PM₁₀.

For stacks in which liquid drops are present, methods to eliminate the liquid drops should be explored. If no reasonable method to eliminate the drops exists, then the following methods shall be used: 40 CFR 60, Appendix A, Method 5, 5a, 5d, or 5e as appropriate. The back half condensables shall also be tested using the method specified by the Executive Secretary. The portion of the front half of the catch considered PM₁₀ shall be based on information in Appendix B of the fifth addition of AP-42 or other data acceptable to the Executive Secretary.

The back half condensables shall not be used for compliance demonstration but shall be used for inventory purposes. [R307-401]

II.B.6.g.7 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 Executive Secretary, to give the results in the specified units of the emission limitation. [R307-401]

II.B.6.g.8 New Source Operation:

For a new source/emission point, the production rate during all compliance testing shall be no less than 90% of the maximum production rate (rated capacity) of the plant. If the maximum AO allowable production rate has not been achieved at the time of the test, the following procedure shall be followed:

- 1) Testing shall be at no less than 90% of the production rate achieved to date.
- 2) If the test is passed, the new maximum allowable production rate shall be 110% of the tested achieved rate. This new maximum allowable production rate shall be less than 90% of the allowed maximum production rate. This new allowable maximum production rate shall remain in effect until successfully tested at a higher rate.

- 3) The owner/operator shall request a higher production rate when necessary. Testing at no less than 90% of the higher rate shall be conducted. A new maximum production rate (110% of the new rate) will then be allowed if the test is successful. This process may be repeated until the maximum AO production rate is achieved. [R307-401]

II.B.6.g.9 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 three (3) years.

In all cases, when testing for PM₁₀ emissions during manufacture of recycled asphalt, recycled asphalt shall be introduced into the plant at a rate no less than 15% of the plant production (i.e. if the plant is producing 300 tons per hour of finished product, then asphalt to be recycled shall be introduced into the plant at a rate no less than 45 tons per hour). [R307-401]

- II.B.6.h The owner/operator shall use natural gas, #1 or #2 fuel oil, or used-fuel oil, or any combination thereof as fuel in the HMAP. [R307-401-8]

- II.B.6.i The sulfur content of any fuel oil or used oil fuel burned in the HMAP burner shall not exceed 0.5 percent by weight. [R307-401-8]

- II.B.6.i.1 The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of fuel oil and used oil fuel shall be either by the owner/operator's own testing or by test reports from the fuel oil or used oil fuel marketer. [R307-203]

- II.B.6.j The owner/operator shall record the quantity of all used oil fuel burned in the HMAP for each day of operation. The owner/operator shall not transfer to the HMAP fuel tank or burn any used oil fuel unless the used oil fuel meets the following requirements:

Arsenic concentration shall not exceed 5 ppm by weight
Cadmium concentration shall not exceed 2 ppm by weight
Chromium concentration shall not exceed 10 ppm by weight
Lead concentration shall not exceed 100 ppm by weight
Total Halogens concentration shall not exceed 1,000 ppm by weight
Flashpoint shall not exceed 100 degrees Fahrenheit. [R307-401-8]

- II.B.6.j.1 The owner/operator shall provide test certification for each load of used oil fuel received. Halogen content of used fuel oil shall be determined by ASTM Method D-808-81, EPA Method 8240 or Method 8260. Certification shall be either by the owner/operator's own testing or test reports from the used oil fuel marketer. Records of used oil fuel consumption and the test reports of each load of used oil fuel shall be kept for all periods when the plant is in operation. [R307-401-8]

II.B.7 **The Two Hot Oil Heaters on site shall be subject to the following**

- II.B.7.a The two hot oil heaters on site shall not exceed 4,000 hours of operation for each heater per rolling 12-month period. [R307-401-8]

II.B.7.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 12-month total by the twentieth 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.7.b The owner/operator shall use natural gas, #1 or #2, or any combination of #1 or #2 fuel oil as fuel in the hot oil heaters on site. [R307-401-8]

II.B.8 **The Aggregate Processing Plant and Associated Equipment on site shall be subject to the following**

II.B.8.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. [R307-401-8]

II.B.8.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 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 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.8.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.8.b The owner/operator shall use no more than two electrical generators to supply power to the aggregate processing plant. [R307-401-8]

II.B.8.c The aggregate processing plant shall operate only between 6:00 AM to 10:00 PM for each day of the year. This includes the aggregate processing equipment, the generators associated with the aggregate processing plant, the haul road activity to the aggregate plant area, and loader operations in the aggregate plant area. [R307-401-8]

II.B.8.c.1 To determine compliance with the time of operation, the owner/operator shall keep a record of when operations start for each day and end for each day. Records shall be kept for all periods when the plants are in operation. [R307-401-8]

II.B.8.d The owner/operator shall install and operate a feeder/crusher near the bulldozing bank area to transport all material to be processed in the main aggregate plant. A conveyor transfer system shall be used to transport the aggregate material from the feeder/crusher to the main aggregate processing plant. [R307-401-8]

II.B.9 **The Aggregate Wash Plant and Associated Equipment on site shall be subject to the following**

II.B.9.a The aggregate wash plant shall not produce more than 600,000 tons of washed aggregate material per rolling 12-month period. [R307-401-8]

- II.B.9.a.1 To determine compliance with a rolling 12-month total, the owner/operator shall calculate a new 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. Amount of material produced 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.9.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.9.b The owner/operator shall use one 670.5 hp electrical generator to supply power to the aggregate wash plant. [R307-401-8]
- II.B.9.c The aggregate wash plant shall operate only between 6:00 AM to 10:00 PM for each day of the year. This includes the wash plant equipment, the electrical generator associated with the wash plant, the haul road activity to the wash plant area, and loader operations in the wash plant area. [R307-401-8]
- II.B.9.c.1 To determine compliance with the time of operation, the owner/operator shall keep a record of when operations start for each day and end for each day. Records shall be kept for all periods when the plant is in operation. [R307-401-8]
- II.B.9.d The owner/operator shall install and operate a conveyor system to supply aggregate material to the aggregate wash plant directly from the main aggregate processing plant or storage piles on site. A loader shall not be used to load aggregate material into the wash plant. [R307-401-8]
- II.B.10 **All Stationary Engines on site shall be subject to the following**
- II.B.10.a The owner/operator shall use the two aggregate plant generators and the two electrical generators on site to supply power only to the aggregate processing plant, the aggregate wash plant, and the hot mix asphalt plant. [R307-401-8]
- II.B.10.a.1 The owner/operator shall maintain a record of the location and use of each engine on site. Records shall include the plant the engine is supplying power to and the dates the engine was performing this function. [R307-401-8]
- II.B.10.b The owner/operator shall install a non-resettable hour meter on each stationary engine on site to measure the hours of operation of each engine. The reading shall be accurate to within plus or minus 0.1 hours. The instrument shall be calibrated according to the manufacturer's instructions at least once every 12 months. The owner/operator shall notify the Executive Secretary of any maintenance or replacement of any hours gauge on each engine. [R307-401-8]
- II.B.10.c The two aggregate plant generators and the two electrical generators on site shall not exceed 7,507,500 horsepower-hours (hp-hrs) of operation combined per rolling 12-month period. [R307-401-8]

- II.B.10.c.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 twentieth 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 an hour meter on each engine. Records of hp-hrs shall include the following:
- A. The serial number of each engine
 - B. The horsepower of each engine
 - C. The hours operated of each engine
 - D. The hp-hrs for each engine
 - E. The total hp-hrs for the entire facility. [R307-401-8]
- II.B.10.d The owner/operator shall not allow visible emissions from any stationary diesel engine on site to exceed 20 percent opacity, unless otherwise specified in R307-201. [R307-201-3]
- II.B.10.e The sulfur content of any diesel fuel burned in the stationary diesel engines on site shall not exceed 0.05 percent by weight. [R307-401-8]
- II.B.10.e.1 The sulfur content shall be determined by ASTM Method D2880-71, D4294-89, or approved equivalent. Certification of diesel fuel shall be either by the owner/operator's own testing or by test reports from the diesel fuel marketer. [R307-203]
- II.B.11 **All Crushers on site shall be subject to the following**
- II.B.11.a The owner/operator shall not allow visible emissions from any crusher on site to exceed 15 percent opacity. [40 CFR 60 Subpart OOO]
- II.B.11.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.12 **All Screens on site shall be subject to the following**
- II.B.12.a The owner/operator shall not allow visible emissions from any screen on site to exceed 10 percent opacity. [40 CFR 60 Subpart OOO]
- II.B.12.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.13 **All Conveyors on site shall be subject to the following**

II.B.13.a The owner/operator shall not allow visible emissions from any conveyor transfer point on site to exceed 10 percent opacity. [40 CFR 60 Subpart OOO]

II.B.13.b 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.13.c 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.14 **All Crushers, Screens, and Conveyors on site shall be subject to the following**

II.B.14.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 2 to Subpart OOO and 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.14.a.1 Initial performance tests for stack emissions limits shall be conducted according to 40 CFR 60.675(b), and initial performance tests for fugitive emissions limits shall be conducted according to 40 CFR 60.675(c). The owner or 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(b) and 60.675(c). [40 CFR 60 Subpart OOO]

II.B.14.b The owner/operator shall submit written reports to the Executive Secretary 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]

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
- MACT (Part 63), ZZZZ: Recipro. Int. Comb Engine (RICE)
- MACT (Part 63), A: General Provisions
- NSPS (Part 60), OOO: Nonmetallic Mineral Processing Plants
- NSPS (Part 60), I: Hot Mix Asphalt Facilities
- NSPS (Part 60), IIII: Stationary Comp/Ignit R.I.C.E.

PERMIT HISTORY

The final AO will be based on the following documents:

Is Derived From	Additional Information dated August 6, 2009
Is Derived From	Additional Information dated July 15, 2009
Is Derived From	Additional Information dated July 7, 2009
Is Derived From	Additional Information dated June 1, 2009
Is Derived From	Additional Information dated April 29, 2009
Is Derived From	Additional Information dated April 8, 2009
Is Derived From	Additional Information dated January 21, 2009
Is Derived From	Additional Information dated December 29, 2008
Is Derived From	Additional Information dated December 17, 2008
Is Derived From	Additional Information dated November 13, 2008
Is Derived From	Additional Information dated October 15, 2008
Is Derived From	Additional Information dated September 11, 2008
Is Derived From	NOI dated August 28, 2008

ACRONYMS

The following lists commonly used acronyms and their 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 EPA to classify sources by size/type)
CEM	Continuous emissions monitor
CEMS	Continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	Carbon monoxide
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
HAP or HAPs	Hazardous air pollutant(s)
ITA	Intent to Approve
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
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
UAC	Utah Administrative Code
UDAQ	Utah Division of Air Quality (typically interchangeable with DAQ)
VOC	Volatile organic compounds