



State of Utah

SPENCER J. COX
Governor

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Lieutenant Governor

Department of Environmental Quality

Kimberly D. Shelley
Executive Director

DIVISION OF AIR QUALITY
Bryce C. Bird
Director

DAQE-AN115570002-25

January 9, 2025

Dennis Sortor
Harper Contracting, Inc.
8201 West 5400 South
Salt Lake City, UT 84118
dsortor@harpercompaniesinc.com

Dear Mr. Sortor:

Re: Approval Order: Administrative Amendment to Approval Order DAQE-AN0115570001-10 for a
10-Year Review and Permit Updates
Project Number: N115570002

The attached Approval Order (AO) is issued pursuant to the Division of Air Quality conducting a 10-year administrative review of this source and its respective AO. Harper Contracting, Inc. must comply with the requirements of this AO, all applicable state requirements (R307), and Federal Standards.

The project engineer for this action is **Lucia Mason**, who can be contacted at (385) 707-7669 or lbmason@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.

Sincerely,

Bryce C. Bird
Director

BCB:LM:jg

cc: Salt Lake County Health Department

STATE OF UTAH
Department of Environmental Quality
Division of Air Quality

APPROVAL ORDER
DAQE-AN115570002-25
Administrative Amendment to Approval Order
DAQE-AN0115570001-10 for a 10-Year Review
and Permit Updates

Prepared By
Lucia Mason, Engineer
(385) 707-7669
lbmason@utah.gov

Issued to
Harper Contracting, Inc. - Pit #5

Issued On
January 9, 2025

Issued By

A handwritten signature in dark ink, appearing to read 'Bryce C. Bird', written in a cursive style.

Bryce C. Bird
Director
Division of Air Quality

TABLE OF CONTENTS

TITLE/SIGNATURE PAGE	1
GENERAL INFORMATION	3
CONTACT/LOCATION INFORMATION	3
SOURCE INFORMATION	3
General Description	3
NSR Classification.....	3
Source Classification	3
Applicable Federal Standards	3
Project Description.....	4
SUMMARY OF EMISSIONS.....	4
SECTION I: GENERAL PROVISIONS.....	4
SECTION II: PERMITTED EQUIPMENT	5
SECTION II: SPECIAL PROVISIONS.....	5
PERMIT HISTORY	8
ACRONYMS	9

GENERAL INFORMATION

CONTACT/LOCATION INFORMATION

Owner Name

Harper Contracting, Inc.

Source Name

Harper Contracting, Inc. - Pit #5

Mailing Address

8201 West 5400 South
Salt Lake City, UT 84118

Physical Address

7400 South 6400 West
Kearns, UT 84118

Source Contact

Name: Dennis Sortor
Phone: (801) 381-9923
Email: dsortor@harpercompaniesinc.com

UTM Coordinates

411,708 m Easting
4,496,777 m Northing
Datum NAD83
UTM Zone 12

SIC code 1442 (Construction Sand & Gravel)

SOURCE INFORMATION

General Description

Harper Contracting, Inc. (Harper Contracting) operates an aggregate pit in Kearns, Salt Lake County. Equipment includes crushers, screens, conveyors, assorted conveyors and stackers, one (1) feeder, two (2) diesel-fired engines, and associated loaders, dozers, and drills. Harper Contracting can produce up to 1.5 million tons of aggregate material per year.

NSR Classification

10-Year Review

Source Classification

Located in Northern Wasatch Front O3 NAA, Salt Lake City UT PM_{2.5} NAA, Salt Lake County SO₂ NAA
Salt Lake County
Airs Source Size: SM

Applicable Federal Standards

NSPS (Part 60), A: General Provisions
NSPS (Part 60), OOO: Standards of Performance for Nonmetallic Mineral Processing Plants
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

The DAQ is conducting a 10-year review and is updating the language and format of the 2010 AO.

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		6127.00
Carbon Monoxide	0	8.11
Nitrogen Oxides	0	35.89
Particulate Matter - PM ₁₀	0	14.70
Particulate Matter - PM _{2.5}		14.70
Sulfur Dioxide	0	2.32
Volatile Organic Compounds	0	1.09

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]
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SECTION II: PERMITTED EQUIPMENT

II.A THE APPROVED EQUIPMENT

II.A.1	Pit #5
II.A.2	One (1) Jaw Crusher Capacity: 250 tons per hour (tph) NSPS Subpart OOO
II.A.3	One (1) Cone Crusher Capacity: 250 tph NSPS Subpart OOO
II.A.4	One (1) Triple Deck Screen Capacity: 250 tph NSPS Subpart OOO
II.A.5	Associated Conveyors, Stackers, etc. The transfer points on these processes shall not exceed 25 NSPS Subpart OOOO
II.A.6	One (1) Feeder Capacity: 250 tph
II.A.7	Two (2) Diesel Generators Rating: 450 kW total capacity MACT Subpart ZZZZ
II.A.8	Associated Loaders, Dozers, Drills, etc.

SECTION II: SPECIAL PROVISIONS

II.B REQUIREMENTS AND LIMITATIONS

II.B.1	Site-wide Requirements:
II.B.1.a	The owner/operator shall not produce more than 1,500,000 tons of aggregate material per rolling 12-month period. [R307-401-8]

II.B.1.a.1	<p>To determine compliance with the above production limit, the owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine production using truck scale records or vendor receipts B. Calculate a new 12-month total by the 25th day of each month using data from the previous 12 months C. Keep records on a daily basis D. Keep records for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.1.b	<p>The owner/operator shall not exceed the following hours of operation:</p> <ul style="list-style-type: none"> A. 3,744 operating hours total for the combination of all crushing plants, including the associated diesel generators, per rolling 12-month period B. 2,050 operating hours total for the screening plant, including the associated diesel generator, per rolling 12-month period. <p>[R307-401-8]</p>
II.B.1.b.1	<p>To determine compliance with the limits on operating hours, the owner/operator shall:</p> <ul style="list-style-type: none"> A. Determine hours of operation by supervisor monitoring and maintaining an operations log B. Calculate a new 12-month total by the 25th day of each month using data from the previous 12 months C. Keep records on a daily basis D. Keep records for all periods the plant is in operation. <p>[R307-401-8]</p>
II.B.1.c	<p>The owner/operator shall not exceed the following values:</p> <ul style="list-style-type: none"> A. Crushers - 12% opacity B. Screens - 7% opacity C. Conveyor transfer points - 7% opacity D. Conveyor drop points - 20% opacity E. Diesel engines - 20% opacity F. All other points - 20% opacity. <p>[R307-312-4, R307-401-8]</p>
II.B.1.c.1	<p>Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. [R307-305-3]</p>

II.B.1.d	<p>The owner/operator shall install water sprays or chemical dust suppression sprays at the emission points below to comply with the opacity limits in this AO, unless the temperature is below freezing:</p> <ul style="list-style-type: none"> A. All crushers B. All screens C. All conveyor transfer points. <p>[R307-401-8]</p>
II.B.1.e	The owner/operator shall use only #2 fuel oil as fuel. [R307-401-8]
II.B.1.f	<p>The owner/operator shall only combust diesel fuel in the generator engines that meet the definition of ultra-low sulfur diesel (ULSD). ULSD has a sulfur content of 15 ppm or less. [40 CFR 63 Subpart ZZZZ]</p>
II.B.2	Haul Roads and Fugitive Dust Requirements:
II.B.2.a	<p>The owner/operator shall not exceed two (2) miles of haul roads in round-trip length. [R307-401-8]</p>
II.B.2.b	<p>The owner/operator shall not allow visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas exceed 20% opacity on site and 10% at the property boundary. [R307-309-5]</p>
II.B.2.b.1	<p>Visible emissions determinations for traffic sources 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. Opacity readings shall be made no less than 1/2 the vehicle length behind the vehicle and at no less than approximately 1/2 the height of the vehicle. [R307-309-5]</p>
II.B.2.c	<p>The owner/operator shall apply water spray and/or chemical treatment on unpaved haul roads and operational areas used by mobile equipment such that the surface is in a damp/moist condition to comply with the opacity limits in this AO, unless the temperature is below freezing. The Director shall approve a chemical treatment plan if any chemical treatment is used. [R307-401-8]</p>
II.B.2.c.1	<p>The owner/operator shall keep records of the following regarding water spray/chemical treatment when the plant is in operation:</p> <ul style="list-style-type: none"> A. Date of application B. Number of treatments made C. Time of day treatments were made D. Records of temperature if the temperature is below freezing E. Records of wind speeds when wind speeds exceed 25 mph. This record is not required if the owner/operator does not claim the wind speed exemption from the opacity limit on fugitive dust. <p>[R307-401-8]</p>

II.B.2.d	The owner/operator shall limit vehicle speed along the haul roads to 15 miles per hour. The owner/operator shall post vehicle speed on site at the start of the haul road such that it is clearly visible from the haul road. [R307-401-8]
II.B.2.e	The owner/operator shall not exceed 10 acres of disturbed area. [R307-401-8]
II.B.2.f	The owner/operator shall not exceed a total area of storage piles of ten (10) acres, with not more than five (5) acres of storage piles being active. [R307-401-8]
II.B.2.g	The owner/operator shall water storage piles and unpaved operational areas to comply with the opacity limits in this AO. [R307-401-8]

PERMIT HISTORY

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

Supersedes

AO DAQE-AN0115570001-10 dated June 9, 2010

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 ₂ e	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