
MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

NSR/FOP Evaluation Document
for
SUPO Baghouse Modification
Preliminary Determination/Decision - Statement of Basis
for
Significant Modification to

FOP Number: 900002
For:
Searles Valley Minerals
Facility:
SVM- Trona Plant
Facility Address:
13200 Main Street Trona, CA 93562

Document Date: December 4, 2020
Submittal date to EPA/CARB for review: December 4, 2020
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Permit Issue date: On or about January 22, 2021

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A. Introduction

1. Application and Setting

Searles Valley Minerals (SVM), Federal Operating Permit (FOP number: 90002), located at SVM is a Solution Mining and Chemicals Processing Facility located at 13200 Main Street, Trona, California 93562. The Trona Plant houses three production plants. One plant produces boric acid, the other makes borax products, and the third makes potassium sulfate (Supo).

The Mojave Desert Air Quality Management District (MDAQMD or District) received an application on August 24, 2020 for Supo dust collector modification. SVM proposes to modify all eight dust collectors associated with the Supo process by increasing the permitted PM₁₀ limit from 0.002 gr/dscf to 0.005 gr/dscf.

The application for construction was accompanied by an application for Significant Modification to SVM's FOP.

A copy of the application materials can be viewed in Appendix B. The District determined the application materials to be complete.

Pursuant to District Rule 1301 – *New Source Review Definitions*, SVM is an existing Major Facility for CO, NO_x, SO₂, VOC, and PM_{10/2.5}. The SVM facility lies within the area of the MDAQMD designated non-attainment by USEPA for PM₁₀ and non-attainment by CARB for ozone precursors (NO_x and VOC), PM₁₀, and Hydrogen Sulfide. The area is attainment or unclassified for all other standards; therefore, pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both BACT and Offset requirements for the Nonattainment Air Pollutant/Precursors of NO_x, SO_x, VOC, and PM₁₀. Of these pollutants, only PM₁₀ is emitted by the proposed equipment; therefore, this NSR evaluation will only focus on PM₁₀. The applicant proposes to offset the increase in PM₁₀ emissions with Emission Reduction Credits (ERCs).

SVM is not subject to the requirements of the Acid Rain Program pursuant to 40 CFR 72.6 as this facility is not an electric utility power plant.

In addition, SVM is defined as a federal Major Facility pursuant to District Rule 1201 – *Federal Operating Permit Definitions*. The proposed modifications are classified as a Significant Modification to SVM's Federal Operating Permit (FOP). Pursuant to District Rule 1205 – *Modifications of Federal Operating Permits*, section (B)(2) and District Rule 1302(D)(1)(d), this document serves as the preliminary decision and Statement of Legal and Factual Basis.

2. Description of Modification

The MDAQMD issued permits for eight dust collectors as part of the SVM Supo permit application that was submitted in 2016 and was subsequently modified in 2018. The dust collectors were permitted at a limit of 0.002 gr/dscf PM₁₀ limit based on SVM's request using a

vendor warranty at that level. The dust collector vendor warranty is based on filterable PM (front half) only. The permit application addressed BACT (the limit accepted was below current achieved in practice BACT) and also offsets requirements. Air quality prohibitory rule compliance and Title V requirements were also addressed in the earlier permit application and permitting process.

The equipment startup occurred in May 2020, and was source tested shortly thereafter. The source test included both filterable and non-filterable PM. The Supo dryer baghouse did not achieve the proposed 0.002 gr/dscf emission rate. All other baghouse units achieved the limit; however, some of them passing by slim margins. SVM then realized that back half PM₁₀ had not been considered in earlier permitting. Therefore, SVM is submitting a permit application to modify the PM₁₀ limits for each of the eight dust collectors.

B. Analysis

1. Presentation of Emissions

Table 1 presents the Emissions Change occurring from the pre and post-modification of emission rates. The Supo equipment PTE was previously offset; therefore, the pre-modification emissions are the Historic Actual Emissions (HAE) for these units while the post modification emissions are the Proposed Emissions.

The Emissions Change, pursuant to District Rule 1304, for a new or modified Facility or Emissions Unit(s) is calculated, by subtracting HAE from Proposed Emissions (section (B)(1)(a) of Rule 1304).

$$\text{Emissions Change} = (\text{Proposed Emissions}) - (\text{Historic Actual Emissions})$$

Table 1- Emissions Change

Equipment	Permit #	Max Design Flow DSCFM	PM ₁₀ grain loading, gr/dscf	Hours	PM ₁₀ Emissions lbs/yr	PM ₁₀ Emissions tons/yr
<i>Pre-modification emissions:</i>						
Supo Dryer Baghouse	C012532	5,000	0.002	8760	750.9	0.38
Dryer Discharge and Product Transfer Dust Collector	C012950	1900	0.002	8760	285.3	0.14
Supo Transfer Storage Silo Bin Vent #1	C012534	1200	0.002	8760	180.2	0.09
Supo Pneumatic Transfer Storage Silo Bin Vent #2	C012535	1200	0.002	8760	180.2	0.09
Supo Storage Silo #3 Baghouse #3	C012536	1200	0.002	8760	180.2	0.09
Supo Bulk Loadout Transfer Drag Conveyors Baghouse	C012537	1000	0.002	8760	150.2	0.08
Supo Bulk Loadout Bin Baghouse	C012538	2200	0.002	8760	330.4	0.17
Supo Bulk Loadout In-Line Cartridge Spout Filter	C012539	1000	0.002	8760	150.2	0.08
<i>Sub-total, pre-modification</i>					2207.5	1.10
<i>Post-modification emissions:</i>						
Supo Dryer Baghouse	C012532	5,000	0.005	8760	1877.1	0.94
Dryer Discharge and Product Transfer Dust Collector	C012950	1900	0.005	8760	713.3	0.36
Supo Transfer Storage Silo Bin Vent #1	C012534	1200	0.005	8760	450.5	0.23
Supo Pneumatic Transfer Storage Silo Bin Vent #2	C012535	1200	0.005	8760	450.5	0.23
Supo Storage Silo #3 Baghouse #3	C012536	1200	0.005	8760	450.5	0.23
Supo Bulk Loadout Transfer Drag Conveyors Baghouse	C012537	1000	0.005	8760	375.4	0.19
Supo Bulk Loadout Bin Baghouse	C012538	2200	0.005	8760	825.9	0.41
Supo Bulk Loadout In-Line Cartridge Spout Filter	C012539	1000	0.005	8760	375.4	0.19
<i>Sub-total, post-modification</i>					5518.8	2.76

Total Change in PM₁₀ Emissions, ton/yr	1.66
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Table 2 – Emission Offsets

Emissions	PM₁₀ (tpy)
Proposed Emissions	2.76
Historical Actual Emissions	1.10
Emission Change	1.66
Pollutant Offset Ratio	1.0
Amount of Offsets Required	1.66
Amount of ERCs Required to be Surrendered	1.66
Amount of ERCs available¹	10.848

1. SVM will use ERC certificate #0106 to offset the project.

2. Determination of Nonattainment NSR Requirements

a. BACT Evaluation

[District Rule 1302(C)(2)(a)]

Best Available Control Technology (BACT) is required for each Nonattainment Air Pollutant or its Precursors with potential to emit (PTE);

a) new or modified permit unit; 25 pounds per day or more

b) new or modified facility; 25 tons per year or more (15 tpy in the case of PM₁₀).

[District Rule 1303(A)]

Because this facility has a PM₁₀ PTE greater than 15 tpy, BACT is required for each new permit unit. BACT is defined as the most stringent emission limit or control technique which has been achieved in practice, for such Permit Unit class or category of source [District Rule 1301].

The proposed emission sources must each be equipped with BACT.

PM₁₀ BACT

The applicant proposes that all equipment emission points be vented to baghouse and that each baghouse will not exceed an outlet grain loading of 0.005 gr/dscf.

The District determines BACT for this class and category as full enclosure of all material conveying, transfer and storage points vented to baghouse with outlet grain loading not to exceed 0.005 gr/dscf. This BACT limit has been achieved in practice for similar sources at SVM and other dry material handling facilities located within the MDAQMD.

b. Offsets Evaluation

[District Rule 1302(C)(3)]

Offsets are required for any new or modified Facility which has the Potential to Emit a Regulated Air Pollutant in an amount greater than or equal to the thresholds for the Nonattainment Air Pollutants and their Precursors specified in District Rule 1303 (B)(1). As noted above there is a net increase in PM₁₀ emissions from the proposed modification, no other nonattainment pollutants are emitted; therefore, emission offsets are required. The applicant proposes to offset any increase in the facility's Potential Emissions as follows; Emission Reduction Credits (ERCs) to offset PM₁₀ at a ratio of 1.0:1. The District accepts the proposed offset package. Emission offsets are to be surrendered prior to permit issuance.

c. Determination of Additional Federal Requirements

[District Rule 1302(C)(4)]

Pursuant to the requirements in District Rule 1302 B(1)(a)(ii), an analysis of Alternate Siting is not required as the proposed equipment is not a Major Modification as defined in District Rule 1301 (DDD).

Pursuant to the requirements in District Rule 1302 B(1)(a)(iii), an analysis of any anticipated impacts on visibility is not required as the proposed equipment does not qualify as an application for a new Major Facility, nor is it a Major Modification for NSR purposes.

3. Determination of Requirements for Toxic Air Contaminants

[District Rule 1302(C)(5)]

a. District Rule 1320:

The purpose of Rule 1320 is to examine emission unit risk (*Priority*) and conduct an applicability analysis of state and federal air toxic regulations. A complete analysis was conducted in the May 2016 NSR action for the Supo emission units and determined that the sum of all emission unit scores classifies them in the “Low Priority” category and that there were no applicable state or federal air toxics regulations. As the Supo project modification will increase the emittance of air toxics, the existing toxics review was revisited and the determination is made that while emission are increasing, the project remains classified as a “Low Priority” project and there are still no applicable state and federal air toxics regulations. The updated PS is shown below.

Equipment	Cancer Priority	Acute Noncancer Priority	Chronic Noncancer Priority
<i>Supo Project Emission Units</i>	8.6E-03	1.27E-03	4.48E-03

b. District Rule 1520 – Control of Toxic Air Contaminants from Existing Sources applies to SVM, as they are an existing facility that has a facility PTE greater than ten (10) tons per year for NO_x, CO, H₂S, VOC, SO_x and PM₁₀, as well as a PTE to emit a TAC (Section (B)(1)(a) and (c)). SVM’s 2017 Comprehensive Emission Inventory Report (CEIR) was utilized to fulfill the requirements of section (D)(1)(b)(i) of District Rule 1520 as the emission year 2017 CEIR emissions data is representative of current operations and was previously analyzed in accordance with Section (E) of District Rule 1520, concluding with a Health Risk Assessment (HRA) result which is pending final review. The modification of the Supo Project will not cause an increase in Significant Health Risk as there is no substantial increase in toxic emissions nor a change in priority categorization.

The numerical results of the EY 2017 HRA are listed below. The results indicate that the SVM facility is not a Significant Health Risk for cancer or chronic hazard index; however, SVM exceeds the Significant Health Risk thresholds for acute hazard index. As required, SVM conducts quadrennial public notification in accordance with Section (F) of District Rule 1520 and submits annual CEIR updates.

	Cancer Risk, per million	Chronic HI	Acute THI (1)
Preliminary Facility HRA Result	6.23	0.241	4.97

The requirements of District Toxics NSR are satisfied through the above analysis and the proposed equipment is in compliance.

4. Determination of Requirements for Prevention of Significant Deterioration

[District Rule 1302(C)(6)]

a. PSD Analysis

The federal PSD regulations are provided in 40 CFR 52.21. Per 40 CFR 52.21(a)(2), these regulations apply to any new major stationary source or any existing major stationary source where a project results in a significant net emissions increase located in an unclassifiable or attainment area. The Facility is an existing major PSD stationary source. The PSD regulations only apply to federal attainment or unclassifiable pollutants which, for this Facility, are PM, PM_{2.5}, NO₂, SO₂, O₃, CO, and Pb. As such, SVM must evaluate if the emission increases associated with the Supo Project are significant. This project is expected to emit PM and PM_{2.5}, but no other PSD pollutants.

For PSD applicability purposes, the Supo Project is considered a stand-alone project. Since the proposed project is a new stand-alone project the project emissions are equivalent to the potential to emit for the project. The PTE of the Supo Project for PM is 3.55 tons per year and for PM_{2.5} is 2.3 tons per year (calculated based on PM fractionation values from emission inventory for Sulfate Dryer #1). Per 40 CFR 52.21(b)(23)(i), the Significant Emissions Rate is 25 tpy for PM and 10 tpy for PM_{2.5}. Because the PM/PM_{2.5} PTE for the Supo project is below the PM/PM_{2.5} Significant Emissions Rate, this project is not considered significant. As such, the requirements of 40 CFR 52.21 do not apply to the Supo Project Baghouse Mod.

b. NAAQS Impact Analysis

District Rule 1302, section (D)(5)(b)(iv) requires that any new or Modified Facility located in an area classified by USEPA as attainment or unclassifiable shall determine if the Facility will cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS). The proposed modification, discussed herein, through implementation of BACT, will not contribute to a violation of the NAAQS.

5. Rules and Regulations Applicable to the Proposed Project

Below are the specific MDAQMD Rules and Regulations which apply to the proposed project:

Rule 221- *Federal Operating Permit Requirements*. SVM maintains and operates in accordance with Federal Operating Permit # 90002.

Rule 401- *Visible Emissions*. In normal operating model, Visible Emissions from the potassium sulfate process shall not exceed opacity requirements set forth in Rule 401.

Rule 402- *Nuisance*. Emissions from the potassium sulfate process will be limited such that they are not expected to cause a nuisance to any considerable number of persons or to the public.

Rule 403.1- *Fugitive Dust Control for the Searles Valley Planning Area*. Fugitive dust emissions from construction operations will be minimized through cleaning of roads, limiting surface slit loading, covering or containing bulk materials, and other activities as prescribed in Rule 403.1.

Rule 404- *Particulate Matter Concentration*. Emissions of particulate matter concentration are not expected to exceed the rate specified in Table 404(a). The BACT emission limit is more stringent than Rule 404 requirements.

Rule 405- *Solid Particulate Matter Weight*. Emissions of solid particulate matter are not expected to exceed the rate specified in Table 405(a). The BACT emission limit is more stringent than Rule 405 requirements

Rule 406- *Specific Contaminants*. Rule 406 does not apply to proposed potassium sulfate process.

Rule 407- *Liquid and Gaseous Air Contaminants*. Rule 407 does not apply to proposed potassium sulfate process.

Rule 409- *Combustion Contaminants*. Rule 409 does not apply to proposed potassium sulfate process.

Rule 430 – *Breakdown Provisions*. Proposed potassium sulfate process expects to continue compliance with this rule.

Rule 431- *Sulfur Content of Fuels*. Rule 431 does not apply to proposed potassium sulfate process as there is no combustion associated with Supo Project permit units.

Rule 476- *Steam Generating Equipment*. Rule 476 does not apply to proposed potassium sulfate process.

Rule 900- *Standards of Performance for New Stationary Sources (NSPS)*. There are no NSPS adopted under Rule 900 that apply to potassium sulfate process.

Rule 1000- *National Emission Standards for Hazardous Air Pollutants (NESHAP)*. There are no NESHAPs adopted under Rule 1000 that apply to this potassium sulfate process.

Regulation XII- *Federal Operating Permits*

SVM Federal Operating Permit (# 90002) will be modified following the completion of this permit action. The FOP modification will be processed in accordance with Rule 1205. Additionally all federally applicable requirements will be added to the SVM FOP.

Regulation XIII – *New Source Review*

Rule 1303 – *Requirements*. Requires *BACT* and *Offsets* on a pollutant by pollutant basis for selected large new and modified sources. A BACT determination was made and offsets are proposed. See Section 2 above. The proposed modification to the Supo project is determined to meet the requirements of NSR.

Rule 1305 – *Emissions Offsets* provides the procedures and formulas to determine the eligibility, calculations and use of Offsets required pursuant to the provisions of District Rule 1303 (B). The proposed modification to the Supo Project emission offsets were calculated in accordance with this rule.

State Regulations

There are no project specific applicable state regulations.

Federal Regulations

40 CFR 64 – Compliance Assurance Monitoring (CAM)

The CAM rules require facilities to monitor the operation and maintenance of emissions control systems and report malfunctions of any control system to the appropriate regulatory agency. The CAM rule applies to emissions units with uncontrolled potential to emit levels greater than applicable major source thresholds (PM₁₀ is 100 tpy). Since the project uncontrolled PTE does not equal or exceed this threshold, CAM is not applicable to the project.

6. *NSR Analysis Decision - Conclusion*

The District has reviewed the proposed new and modified emission unit applications for SVM and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed equipment and application are in compliance with all applicable District, State, and Federal rules and regulations as proposed and when operated in terms of the permit conditions below.

7. *Permit Conditions*

This permit modification addresses one operating condition on each issued ATC, changing the grain loading limit from 0.002 gr/dscf to 0.005 gr/dscf (and subsequent hourly emission rates). The change will be made to Authorities to Construct (ATC) for the project and in the FOP. See updated “ATC” below.

57. SUPO DRYER DUST COLLECTOR; MDAQMD PERMIT C012532; consisting of;

- Make & Model: DUSTEX 6230-8-8 or Equivalent
- Air Volume: 5000 scfm
- Filter Area: 1007 ft²
- Air to Cloth: 4.97:1
- Exhaust Air Fan : 30 HP
- Cyclone Separator: 43" diameter x 242.250" tall

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204; 1303]

2. This equipment shall be operated concurrently with the Supo Dryer System covered in District permit B012530. [District Rule 204; 404; 1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value - pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this baghouse shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM) shall not exceed 0.08521 lb/hr.

[District Rule 204; 1303]

5. The O/O at a minimum shall conduct an initial compliance test in accordance to CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Dryer System. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols,

and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement filter cartridges. [District Rule 1303]

58. SUPO STORAGE SILO #1 BAGHOUSE; MDAQMD PERMIT C012534; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft²
- Air to Cloth: 3.8:1
- Exhaust Air Fan: 3 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204; 1303]

2. This equipment shall be operated concurrently with the Supo Transfer and Storage System covered in District permit B012531. [District Rule 204; 404;1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value- pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM) shall not exceed 0.02051 lb/hr. [District Rule 204; 404; 1303]

5. The O/O at a minimum shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535, or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test

date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement filter cartridges. [District Rule 1303]

59. SUPO STORAGE SILO #2 BAGHOUSE; MDAQMD PERMIT C012535; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft²
- Air to Cloth: 3.8:1
- Exhaust Air Fan: 3 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204; 1303]

2. This equipment shall be operated concurrently with the Supo Transfer and Storage System covered in District permit B012531. [District Rule 204; 404; 1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value- pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.00~~25~~ grains per dscf and the emissions of particulates (PM) shall not exceed 0.0~~2051~~ lb/hr. [District Rule 204; 404; 1303]

5. The O/O at a minimum shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535 or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement filter bags. [District Rule 1303]

60. SUPO STORAGE SILO #3; MDAQMD PERMIT C012536; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft²
- Air to Cloth: 3.8:1
- Exhaust Air Fan : 3 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204]

2. This equipment shall be operated concurrently with the Supo Transfer and Storage System under District permit B012531. [District Rule 1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value- pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM) shall not exceed 0.02051 lb/hr. [District Rule 404; 1303- BACT]

5. The O/O at a minimum shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535 or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement filter cartridges. [Rule 1303]

**61. SUPO BULK LOADOUT TRANSFER DRAG CONVEYORS BAGHOUSE;
MDAQMD PERMIT C012537; consisting of;**

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1000 scfm
- Filter Area: 314 ft²
- Air to Cloth: 3.2:1
- Exhaust Air Fan :7.5 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204]

2. This equipment shall be operated concurrently with the Supo Bulk Loadout System under District permit B012533. [District Rule 1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value- pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.

- d. Date of bag replacements.
 - e. Date and nature of any system repairs.
- [District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM) shall not exceed 0.01743 lb/hr. [District Rule 1303]

5. The O/O shall conduct an initial compliance test in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Bulk Loadout System (B012533). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement bags. [District Rule 1303]

**62. SUPO BULK LOADOUT BIN BAGHOUSE, MDAQMD PERMIT C012538;
Consisting of;**

- Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
- Air Volume: 2200 scfm
- Filter Area: 615 ft²
- Air to Cloth: 3.6:1
- Exhaust Air Fan : 10 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204]
2. This equipment shall be operated concurrently with the Bulk Loadout System covered in District permit B012533. [District Rule 1303]
3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:
 - a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).

- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs. [District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.03794 lb/hr. [District Rule 404; 1303- BACT]

5. The O/O shall conduct an initial compliance test within 90 days of initial operation of the Supo Bulk Loadout System (B012533) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. A USEPA Method 9 shall also be performed during the initial operation compliance test. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement bags. [Rule 1303]

**63. SUPO BULK LOADOUT SPOUT FILTER; MDAQMD PERMIT C012539;
Consisting of;**

- Model: Vortex Model VFS-25-A-A or Equivalent
- Air Volume: 1000 scfm
- Filter Area:
- Cartridges 232 ft²
- Air to Cloth: 4.3:1
- Exhaust Air Fan: 3 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204]
2. This equipment shall be operated concurrently with the Supo Bulk Loadout System covered in District permit B012533. [District Rule 1303]
3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs. [District Rule 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.00~~25~~ grains per dscf and the emissions of particulates (PM10) shall not exceed 0.0~~1743~~ lb/hr. [District Rule 404; 1303- BACT]

5. The O/O shall conduct an initial compliance test within 90 days of initial operation of the SUPO Bulk Loadout System (B012533) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. A USEPA Method 9 shall also be performed during the initial operation compliance test. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement bags. [District Rule 1303]

64. SUPO DRYER DISCHARGE AND PRODUCT TRANSFER TO STORAGE SILOS DUST COLLECTOR; MDAQMD PERMIT C012950; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
- Air Volume: 1900 scfm
- Filter Area: 615 ft²
- Air to Cloth: 3.1:1
- Exhaust Air Fan: 7.5 HP

CONDITIONS:

1. The owner/operator (O/O) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices. [District Rule 204; 1303]

2. This equipment shall be operated concurrently with the Supo Dryer System covered in District permit B012530 and Supo Transfer and Storage Silos covered in District permit B012531. [District Rule 204; 404;1303]

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of pressure drop, date and value - pressure drop shall not exceed manufacturer recommendations.
- c. Annual bag and bag suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[District Rule 204; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.0025 grains per dscf and the emissions of particulates (PM) shall not exceed 0.03281 lb/hr. [District Rule 204; 404; 1303]

5. The O/O at a minimum shall conduct an initial compliance test in accordance to CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall be within 90 days of initial operation of the Supo Dryer System (B012530) and Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

6. O/O shall maintain on site a minimum inventory of replacement filter cartridges. [District Rule 1303]

C. Title V Permit/FOP – Significant Permit Modification

1. Proposed Changes to FOP

Section B.7 contains the proposed operating conditions that will be updated to SVM Federal Operating Permit (FOP #900002). Note that all changes are reflected in the iterated version of the FOP dated December 4, 2020. These conditions are derived from District’s general authority to issue permits- Rule 204, Prohibitory Rules- Regulation IV, District’s New Source Review program- Regulation XIII, District Toxic NSR Rule 1320 and 1520. Where the District fills gaps in monitoring or requires records for the nominal Title V period of five (5) years, the District’s authority is based on either of District Rules 204, 1302 and 1203(D)(1)(d)(ii). Specific applicable requirements (such as dust opacity limitations) for Rules 401, 402, and 403 are found in Part II of this facility’s Title V Permit.

2. Title V/FOP – Conclusion

The District has reviewed the applications and proposed modifications to SVM’s Federal Operating Permit. The District has determined that the proposed modification is in compliance with all applicable District, state, and federal rules and regulations as proposed when operated in accordance with the permit descriptions conditions.

D. Comment Period and Notifications

1. Public Comment

This preliminary determination/decision will be publicly noticed on or about November 10, 2020, allowing for public comment until January 8, 2021 (or 30 days after publish date). Please see Appendix A for noticing details.

2. Notifications

The preliminary decision will be submitted to USEPA and CARB pursuant to District Rule 1302 for an EPA forty-five (45) day review period on December 4, 2020. The USEPA and CARB review period will end on January 18, 2021. The final modified FOP will be issued on or about January 22, 2021.

All correspondence as required by District Rules 1302 will be forwarded electronically to the following recipients:

Director, Office of Air Division
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105
Submitted electronically to USEPA’s
Central Data Exchange – Electronic
Permitting System
<https://cdx.epa.gov/>

Chief, Stationary Source Division
California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812
emailed to permits@arb.ca.gov

Anoop Sukumaran
Searles Valley Minerals
13200 Main St., Trona CA 3562-1995
P.O. Box 367, Trona, CA 93592-0367
sukumara@svminerals.com

Appendix A Public Notice

Noticing Methods include the following, per District Rule 1302(D)(2) and (3):

- Published in newspapers of general circulation - *Riverside Press Enterprise* (Riverside County) and the *Daily Press* (San Bernardino County) on or about December 9, 2020.
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in this Appendix).
- Posted on the MDAQMD Website at the following link:
<http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry>

NOTICE of TITLE V PERMIT MODIFICATION

NOTICE IS HEREBY GIVEN THAT *Searles Valley Minerals (SVM) – Trona* - located in Trona, California; owned and operated by *Searles Valley Minerals Operations, Inc*, has applied for a Modification of District Permit and Significant Modification of a Federal Operating Permit (FOP) pursuant to the provisions of MDAQMD Regulations XII and XIII, respectively. Applicant is a company operating a solution mining and chemicals processing facility. Applicant proposes to change potassium sulfate dust collector emission rates by accepting an emission limit currently considered best available control level from a lower vendor guaranteed level which did not account for condensable particulates.

REQUEST FOR COMMENTS: Interested persons are invited to submit written comments and/or other documents regarding the terms and conditions of the proposed Federal Operating Permit. If you submit written comments, you may also request a public hearing on the proposed Significant Modification of the FOP. To be considered, comments, documents and requests for public hearing must be submitted no later than 5:00 P.M. on January 8, 2021 (or 30 days after this publication date, whichever is later) to the MDAQMD, Attention: Chris Anderson at the address listed below.

PETITION FOR REVIEW: Federal Operating Permits are also subject to review and approval by the United States Environmental Protection Agency (USEPA). If the USEPA finds no objection to the proposed permit renewal, the final permit will be issued. In the event of public objection to the issuance of a specific permit, a Title V petition may be submitted to the USEPA Administrator electronically through the Central Data Exchange at: <https://cdx.epa.gov/> or in writing to USEPA at 1200 Pennsylvania Ave, N.W., Washington, D.C. 20460. In order to file a Title V petition, issues must be raised with reasonable specificity during the public comment period, and filed within 60 days of the close of the USEPA review period.

AVAILABILITY OF DOCUMENTS: The proposed Federal Operating Permit, as well as the application and other supporting documentation are available for review at the MDAQMD offices, 14306 Park Avenue, Victorville, CA 92392. In addition, these documents are available on the MDAQMD website and can be viewed at following link: <https://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry>. Please contact Chris Anderson, Air Quality Engineer, at the above address or (760) 245-1661, extension 1846 or at canderson@mdaqmd.ca.gov for additional questions pertaining to this action and/or corresponding documents.

*Traducción en español esta disponible por solicitud. Por favor llame: (760) 245-1661

SHERI HAGGARD
Engineering Supervisor II
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392

Mr. Larry Trowsdale
mchsi
951 E Skylark Ave
Ridgecrest, CA 93555

Chief, Planning Division
California Air Resources Board
P.O. Box 2815
Sacramento, CA 95812

Mr. Mike Sword
Planning Div Mgr, Clark Co Dept of Air Q and
4701 Russell Road, Suite 200
Las Vegas, NV 89118

Environmental Manager
Duffield Marine, Inc.
17260 Muskrat Avenue
Adelanto, CA 92301

Mr. Jon Boyer
High Desert Power Project LLC
19000 Perimeter Rd
Victorville, CA 92394

Ms. Carol Kaufman
Metropolitan Water District
700 N Alameda Street, 8th Floor, Rm 108
Los Angeles, CA 90012

Mr. John F. Espinoza
Principal Advisor, MP Materials
HC1 Box 224, 67750 Bailey Road
Mountain Pass, CA 92366

Chief, Bureau of Air Quality
NDCNR, Env Prot Div (Air)
901 South Stewart St, Suite 4001
Carson City, NV 89701-5249

Mr. Steve Smith
SB County Transportation Authority
1170 W. Third Street, Second Floor
San Bernardino, CA 92410

Environmental Contact
Specialty Minerals Inc.
P.O. Box 558
Lucerne Valley, CA 92356-0558

Ms. Janet Laurain
Adams Broadwell Joseph & Cardozo
601 Gateway Blvd., St. 1000
South San Francisco, CA 94080-7037

Ms. Desirea Haggard
Environmental Manager, CalPortland-Oro
2025 E Financial Way
Glendora, CA 91741

Mr. Michael Olokode
Air Program Manager, N45NCW, NAWIS
429 E Bowen Rd, Stop 4014
China Lake, CA 93555-8108

Mr. Randy Lack
Chief Marketing Officer, Element Markets,
3555 Timmons Lane, Suite 900
Houston, TX 77027

Mr. Glen King
Environmental Manager, Luz Solar Partners
43880 Harper Lake Road
Harper Lake, CA 92347

Mr. David Rib
Environmental Manager, Mitsubishi Cement
5808 State Highway 18
Lucerne Valley, CA 92356-9691

Mr. Mark Solheid
Senior EHS Analyst, NASA/Goldstone DSCC
93 Goldstone Road
Fort Irwin, CA 92310

Mr. Dan Madden
Plant Manager, Northwest Pipe Co.
12351 Rancho Road
Adelanto, CA 92301

Mr. Anoop Sukumaran
Environmental Engineer, Searles Valley
P.O. Box 367
Trona, CA 93592-0367

Director, Air Division (Attn: AIR-3)
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

Mr. Ramon Campos
Environmental Compliance Manager, Blythe
385 N Buck Blvd
Blythe, CA 92225

City Manager
City of Barstow
220 East Mountain View, Suite A
Barstow, CA 92311

Mr. Pedro Dumaua
HS&E Manager, Ducommun Aerostructures
4001 El Mirage Road
Adelanto, CA 92301

Ms. Christine Grandstaff
Evolution Markets
27801 Golden Ridge Lane
San Juan Capistrano, CA 92675

Mr. Mike Plessie
HQBN B CO, NREA MCAGCC
Box 788110
Twentynine Palms, CA 92278-8110

Environmental Manager
Mobile Pipe Lining & Coating, Inc
12766 Violet Road
Adelanto, CA 92301

Mr. Don Shepherd
National Park Service, Air Resources Div
12795 W Alameda Pkwy
Lakewood, CO 80228

Mr. Kou Thao
Environmental Scientist, PG&E
P.O. Box 7640
San Francisco, CA 94120

Ms. Karin Fickerson
Air Quality Team Lead, SoCalGas
1650 Mountain View Avenue
Oxnard, CA 93030

Ms. Anne McQueen
Senior Engineer, Yorke Engineering, LLC
31726 Rancho Viejo Road, Suite 218
San Juan Capistrano, CA 92675

Air Program Manager Environmental Division, USMC MCLB Box 110170 Bldg 196 Barstow, CA 92311	Ms. Kiersten Melville Metropolitan Water District 700 N Alameda Street, 8th Floor Rm 106 Los Angeles, CA 90012	Ms. Lisa Beckham United States EPA, Region IX 75 Hawthorne Street San Francisco, CA 94105
Air Program Manager, Bureau of Indian 1451 Research Park Drive, Suite 100 Riverside, CA 92507	Andrew Salas Chairman, Gabriel Band of Mission Indians - PO Box 393 Covina, CA 91723	Chief, San Gabriel Band of Mission Indians PO Box 693 San Gabriel, CA 91778
Mr. Steve Cummings Senior Air Quality Tech Specialist, Southern P.O. Box 800 Rosemead, CA 91770	Mr. James Sharp HSE Manager, Elementis Specialties 31763 Mountain View Road Newberry Springs, CA 92365	Ms. Jenna Latt CARB/Office of Ombudsman 9480 Telstar Avenue, Annex 1 El Monte, CA 91731
Mr. Ralph McCullers EH&S Manager, OMYA (California), Inc. 7225 Crystal Creek Rd Lucerne Valley, CA 92356	Mr. Joseph Hower Principal, Air Sciences, Ramboll Environ 350 S Grand Ave, Ste 2800 Los Angeles, CA 90017	Mrs. Samantha Lopez Permit Engineer, Mojave Desert AQMD 14306 Park Ave Victorville, CA 92392
Mr. Josh Dugas Division Chief, San Bernardino County EHS 385 N Arrowhead Ave, Second Floor San Bernardino, CA 92415-0160	Ms. Cinnamon Smith Sr. Specialist - Permitting & Compliance, 1001 Louisiana Street, 891H Houston, TX 77002	Mr. John Vidic Air Program Manager, USAF 412 120 N. Rosamond Blvd, Bldg. 3735 (Ste A) Edwards AFB, CA 93524
Mr. Dan Guillory Environmental Contact, Metropolitan Water P O Box 54153 Los Angeles, CA 90054	Mr. Zeyd Tabbara Broker, BGC Environmental Brokerage 1 Seaport Plaza New York, NY 10038	Ms. Alexandra Minitrez Air Compliance Specialist, MP Materials HC1 Box 224, 67750 Bailey Road Mountain Pass, CA 92366
Ms. Dolores Wyant 18710 Corwin Road Apple Valley, CA 92307	Ms. Jaclyn Ferlita Air Quality Consultants 5881 Engineer Drive Huntington Beach, CA 92649	Ms. Courtney Graham Manager, Permit Evaluation Section., P.O. Box 2815 Sacramento, CA 95812
Mr. Tom Lucas Drew Carriage 5540 Brooks Street Montclair, CA 91763	Mr. Kou Thao Air Quality, Pacific Gas and Electric (Attn Air P.O. Box 7640 San Francisco, CA 94120	Ms. Chanice Allen Environmental Team Lead, SoCalGas 8101 Rosemead Blvd, SC722P Pico Rivera, CA 90660
Ms. Alison Wong Technical Advisor, SoCalGas 8101 Rosemead Blvd, SC722P Pico Rivera, CA 90660	Mr. Carlos Gaeta Southern California Gas Company 17071 Gas Line Rd, M/L SC700F Victorville, CA 92394-1007	Mr. Robert Leone Governing Board Member, Town of Yucca 57090 29 Palms Highway Yucca Valley, CA 92284
Ms. Alejandra Silva Environmental Manager, CEMEX 16888 North E Street Victorville, CA 92392	Mr. Rick Renteria EH&S Manager, Northwest Pipe Co. 12351 Rancho Road Adelanto, CA 92301	

Appendix B

Application



13200 Main St., Trona, CA 93562-1995
P.O.Box 367, Trona, CA 93592-0367
760.372.4311

August 20, 2020

Sheri Haggard
Engineering Supervisor II
Mojave Desert AQMD
14306 Park Ave.
Victorville, CA 92392

Subject: NSR and Title V Permit Application for SUPO Dust Collector Modification

Dear Ms. Haggard:

Please see the attached permit application for SVM SUPO dust collector modification. All of the eight SUPO dust collectors that were permitted in 2016/2018 are being modified to accept a PM limit of 0.005 gr/CF, which is the current PM BACT level for dust collectors in MDAQMD. Earlier, the dust collectors were permitted with a lower emission limit that was in error because this lower limit did not take into account the measurement of condensable PM in the impinger portion of the CARB Method 5 train (known as “back half”).

Background:

SVM permitted eight dust collectors as part of the SUPO permit application that was submitted in 2016 and modified in 2018. The dust collectors were permitted at 0.002 gr/CF PM limit based on the vendor warranty at that level. The dust collector vendor warranty is based on filterable PM only. The permit application addressed BACT (the limit accepted was below current BACT) and also offsets requirements. Air quality prohibitory rule compliance and Title V requirements were also addressed in the earlier permit application and permitting process.

The equipment startup occurred in May 2020, and, during source testing, SVM realized that back half PM had not been considered in earlier permitting. Therefore, SVM is submitting a permit application to modify the PM limits for each of the eight dust collectors.

Current permit action and NSR rule compliance:

SVM is requesting that the eight dust collector permits be modified to change the PM limits from 0.002 to 0.005 gr/CF. The new limit corresponds to the current PM BACT level for dust collectors in MDAQMD. The total increase in potential to emit will be 1.66 ton/year, based on the flowrate in CFM and 8760 hours per year. SVM proposes the partial retirement of PM10 ERCs associated with Certificate of Ownership No 0106 to meet the emission offset requirements.


This permit application includes the following information:

- Emission calculation tables (including ERC certificate)

- Permit application forms and fee (\$2,416.00)
- Copies of existing permits

If you have any questions, please contact Anoop Sukumaran at 760-372-2547 or sukumara@svminerals.com or Anne McQueen with Yorke Engineering LLC at amcqueen@yorkeengr.com.

Sincerely,

A handwritten signature in black ink, appearing to read 'Anoop Sukumaran', with a stylized flourish at the end.

Anoop Sukumaran
Searles Valley Minerals

Table 1 - SVM Permit Application July 2020 - Criteria Pollutant Emissions Summary

		PM10
Unit	Permit #	Emissions Change from Proposed Unit (tpy)
Dryer Discharge and Product Transfer Dust Collector	C012950	0.21
Supo Dryer Baghouse	C012532	0.56
Supo Transfer Storage Silo Bin Vent #1	C012534	0.14
Supo Pneumatic Transfer Storage Silo Bin Vent #2	C012535	0.14
Supo Storage Silo #3 Baghouse #3	C012536	0.14
Supo Bulk Loadout Transfer Drag Conveyors Baghouse	C012537	0.11
Supo Bulk Loadout Bin Baghouse	C012538	0.25
Supo Bulk Loadout In-Line Cartridge Spout Filter	C012539	0.11
Total		1.66
Offsets Needed?		Yes

Table 2 - SVM Permit Application July 2020 - Criteria Pollutant Calculations

Dust Collector Permitting Actions

Dust Collector PM10 Emission Calculations	Permit #	Grain Loading, gr/dscf	Permitted DSCFM	Hours	PM10 Emissions (lb/hr)	PM10 Emissions (ton/yr)
Pre-Modification						
Dryer Discharge and Product Transfer Dust Collector	C012950	0.002	1,900	8,760	0.03	0.143
Supo Dryer Baghouse	C012532	0.002	5,000	8,760	0.09	0.375
Supo Transfer Storage Silo Bin Vent #1	C012534	0.002	1,200	8,760	0.02	0.090
Supo Pneumatic Transfer Storage Silo Bin Vent #2	C012535	0.002	1,200	8,760	0.02	0.090
Supo Storage Silo #3 Baghouse #3	C012536	0.002	1,200	8,760	0.02	0.090
Supo Bulk Loadout Transfer Drag Conveyors Baghouse	C012537	0.002	1,000	8,760	0.02	0.075
Supo Bulk Loadout Bin Baghouse	C012538	0.002	2,200	8,760	0.04	0.165
Supo Bulk Loadout In-Line Cartridge Spout Filter	C012539	0.002	1,000	8,760	0.02	0.075
Subtotal, Pre-modification:	-	-	-	-	0.25	1.104
Post-Modification						
Dryer Discharge and Product Transfer Dust Collector	C012950	0.005	1,900	8,760	0.08	0.357
Supo Dryer Baghouse	C012532	0.005	5,000	8,760	0.21	0.939
Supo Transfer Storage Silo Bin Vent #1	C012534	0.005	1,200	8,760	0.05	0.225
Supo Pneumatic Transfer Storage Silo Bin Vent #2	C012535	0.005	1,200	8,760	0.05	0.225
Supo Storage Silo #3 Baghouse #3	C012536	0.005	1,200	8,760	0.05	0.225
Supo Bulk Loadout Transfer Drag Conveyors Baghouse	C012537	0.005	1,000	8,760	0.04	0.188
Supo Bulk Loadout Bin Baghouse	C012538	0.005	2,200	8,760	0.09	0.413
Supo Bulk Loadout In-Line Cartridge Spout Filter	C012539	0.005	1,000	8,760	0.04	0.188
Subtotal, Post-modification:	-	-	-	-	0.63	2.759

Summary

Change in PM10 Emissions (ton/yr)	1.656
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Table 3 - SVM Permit Application July 2020 - Offsets Summary

PM10 Offsets	
Original Supo Permit Application PM10 Emissions (lb/yr)	2,418
Total PM10 Emissions after Modification (lb/yr)	6,045
Increase in PM10 Emissions (lb/yr)	3,627
Offset Ratio	1
Emission Reduction Credits Required	3,627
Certificate of Ownership 0081 (lb/yr)	21,696
New Certificate Values (lb/yr)	18,069

SVM Permit Application July 2020 - Prioritization Score Summary, Dispersion Adjustment Procedure

-	Cancer Priority	Chronic Noncancer Priority	Acute Noncancer Priority
Original Supo Permit Application	3.44E-03	1.79E-03	5.08E-04
Ratio, PM10 in Modification to PM10 in Original Appliation	2.50	2.50	2.50
Updated Prioritization Score	8.60E-03	4.48E-03	1.27E-03

Certificate Number: 0106

Effective Date: June 30, 2016
Expiration Date: N/A

Certificate of Ownership

This certifies that

Searles Valley Minerals

owns the following Class "A" Emission Reduction Credits:

*33,224 pounds NO_x
1743 pounds VOC
21,696 pounds PM₁₀
4287 pounds SO_x
20,608 pounds CO*

This Certificate of Ownership is issued pursuant to Regulation XIV of the Mojave Desert Air Quality Management District.

See Reverse for Terms and Conditions.

Method of Reduction

- Shutdown
- Modification
- Other:



Alan De Salvio
Deputy Director, Mojave Operations

June 30, 2016
Date

Mojave Desert Air Quality Management District

TITLE V – PERMIT AMENDMENT / MODIFICATION

I. PERMIT ACTION (Check appropriate box)

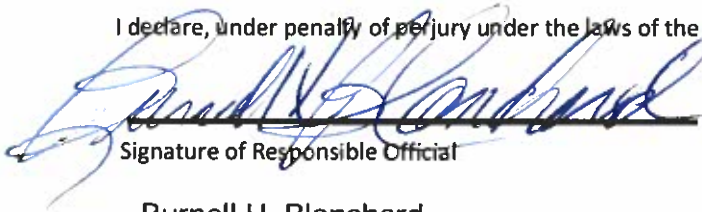
- ADMINISTRATIVE AMENDMENT MINOR MODIFICATION SIGNIFICANT MODIFICATION
 OFF-PERMIT CHANGE

1. FACILITY NAME: <u>Searles Valley Minerals Operations, Inc.</u>	
2. FACILITY ID: <u>002</u>	
3. TITLE V PERMIT NO: <u>90002</u>	
4. TYPE OF ORGANIZATION: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Ownership <input type="checkbox"/> Government <input type="checkbox"/> Partnership <input type="checkbox"/> Utility	
5. COMPANY NAME: <u>Searles Valley Minerals Operations, Inc.</u>	
6. COMPANY MAILING/BILLING ADDRESS: STREET/P.O. BOX: <u>P.O.Box 367</u> CITY: <u>Trona</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93592-0367</u>	
7. FACILITY ADDRESS: STREET: <u>13200 Main St.</u> CITY: <u>Trona</u> STATE: <u>CA</u> 9-DIGIT ZIP CODE: <u>93592-0367</u>	PROPOSED DATE OF INSTALLATION:
8. DISTANCES (FEET AND DIRECTION) TO CLOSEST: FENCELINE: _____ RESIDENCE: _____ BUSINESS: _____ SCHOOL: _____	
9. GENERAL NATURE OF BUSINESS: <u>Sodium, Boron Products</u>	
10. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH APPLICATION IS MADE (include Permit #'s if known, and use additional sheets if necessary) <u>Modifications to Dust Collectors for SUPO plant.</u>	
11. PERSON TO CONTACT FOR INFORMATION ON THIS APPLICATION: NAME: <u>Anoop Sukumaran</u> PHONE NUMBER: <u>760-372-2547</u> TITLE: <u>Environmental Manager</u> EMAIL: <u>sukumara@svminerals.com</u>	

II. COMPLIANCE CERTIFICATION (Read each statement carefully and check all for confirmation):

- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will continue to comply with the applicable federal requirement(s).
- Based on information and belief formed after reasonable inquiry, the equipment identified in this application will comply with applicable federal requirement(s) that will become effective during the permit term, on a timely basis.
- Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.
- Based on information and belief formed after reasonable inquiry, information and statements in the submitted application package, including all accompanying reports, and required certifications are true accurate and complete.

I declare, under penalty of perjury under the laws of the state of California, that the forgoing is correct and true:



Signature of Responsible Official

8-20-2020
Date

Burnell H. Blanchard

Name of Responsible Official (please print)

Vice President Operations

Title of Responsible Official (please print)

For AQMD Use Only:

DATE STAMP	DISTRICT PERMIT APPLICATION NO: _____	COMPANY /FACILITY ID: _____
------------	--	-----------------------------------

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
 Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD



Application for air pollution control equipment only

Remit **\$302.00** with this document (\$172.00 for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562			Equip. coordinates (lat/long):
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products			Company NAICS: 212391
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012532 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____		
Adsorbate(s): _____		
Number of beds: _____	Weight of adsorbent per bed: _____	
Dimensions of bed: thickness: _____ surface area: _____		
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O	
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____		
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____		
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
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B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> please describe: _____			
Heat exchanger used: <input type="checkbox"/> please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm		Coolant temp.: inlet _____ °F outlet _____ °F	
Gas temp.: inlet _____ °F outlet _____ °F			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: DUSTEX		Model: 6230-8-8	
Serial No.: _____			
Filtering material: _____		Filtering area: 1007	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 5000 dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 30 bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____		Scrubbant flow rate: _____ dscfm	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____			
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42			
<input type="checkbox"/> Other (please specify): _____			
Emissions data:			
Pollutant	Pre-control max. emissions	Units	Post control max. emissions
			Units
NO _x	_____	_____	_____
NMHC	_____	_____	_____
CO	_____	_____	_____
PM ₁₀	_____	_____	_____
SO _x	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.			

Section 5: Operation information

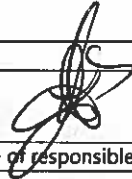
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent):	Expected operating hours of equipment
<input checked="" type="checkbox"/> Uniform OR ²⁵ % Jan-Mar ²⁵ % Apr-Jun	²⁴ Hrs/day ⁷ Days/wk ⁵² Wk/yr
²⁵ % Jul-Sep ²⁵ % Oct-Dec	Total annual hours ⁸⁷⁶⁰ _____

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S 542301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		8/29/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547		Email: sukumara@svminerals.com	

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$302 per permit for new or modified permit (or \$172 for change of owner) via check or credit card.

Payment by check:

Make check payable to the Mojave Desert AQMD
Mail the check with a copy of this completed application to:

Mojave Desert AQMD

14306 Park Avenue
Victorville, CA 92392

Payment by credit card:

Pay online at <http://www.mdaqmd.ca.gov>
Click "Pay Fees"

Please note: *a surcharge applies for all credit card payments.*

- 3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov
Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
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Application for air pollution control equipment only

Remit **\$302.00** with this document (\$172.00 for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562			Equip. coordinates (lat/long):
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products			Company NAICS: 212391
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012534 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable
Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____ Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input checked="" type="checkbox"/> Other: specify _____	
Adsorbate(s): _____	
Number of beds: _____	Weight of adsorbent per bed: _____
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
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B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> please describe: _____			
Heat exchanger used: <input type="checkbox"/> please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm	Coolant temp.: inlet _____ °F outlet _____ °F	Gas temp.: inlet _____ °F outlet _____ °F	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS	Model: 96ST25	Serial No.: _____	
Filtering material: _____		Filtering area: 314 _____	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1200 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 3 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Type of scrubber:		
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O		
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____		
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG		
<input type="checkbox"/> other, specify: _____		
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow		
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.		
Scrubbant: _____ Scrubbant flow rate: _____ dscfm		
Control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

G. Other types:

Equipment description: _____		
Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Gas flow rate: _____ dscfm		
Control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____				
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify): _____				
Emissions data:				
Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.				

Section 5: Operation information

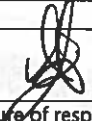
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent):	Expected operating hours of equipment
<input checked="" type="checkbox"/> Uniform OR ²⁵ _____ % Jan-Mar ²⁵ _____ % Apr-Jun	²⁴ _____ Hrs/day ⁷ _____ Days/wk ⁵² _____ Wk/yr
²⁵ _____ % Jul-Sep ²⁵ _____ % Oct-Dec	Total annual hours ⁶⁷⁵⁰ _____

Section 6: Receptor information

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Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S 542301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		8/20/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547	Email: sukumara@svminerals.com		

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$302 per permit for new or modified permit (or \$172 for change of owner) via check or credit card.

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Mojave Desert AQMD
 14306 Park Avenue
 Victorville, CA 92392

Payment by credit card:

Pay online at <http://www.mdaqmd.ca.gov>
 Click "Pay Fees"
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 Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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Application for air pollution control equipment only

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c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562		Equip. coordinates (lat/long):	
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products		Company NAICS: 212391	
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012535 _____ Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____
Serial No.: _____	
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____	<input type="checkbox"/> Other: specify _____
Adsorbate(s): _____	
Number of beds: _____	Weight of adsorbent per bed: _____
Dimensions of bed: thickness: _____	surface area: _____
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____	<input type="checkbox"/> other, specify: _____
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
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B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> , please describe: _____			
Heat exchanger used: <input type="checkbox"/> , please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm		Coolant temp.: inlet _____ °F outlet _____ °F	
Gas temp.: inlet _____ °F outlet _____ °F			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS		Model: 96ST25	
Serial No.: _____			
Filtering material: _____		Filtering area: 314	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1200 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 3 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____ Scrubbant flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____			
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42			
<input type="checkbox"/> Other (please specify): _____			
Emissions data: _____			
Pollutant	Pre-control max. emissions	Units	Post control max. emissions Units
NO _x	_____	_____	_____
NMHC	_____	_____	_____
CO	_____	_____	_____
PM ₁₀	_____	_____	_____
SO _x	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.			

Section 5: Operation information

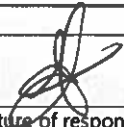
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent):	Expected operating hours of equipment
<input checked="" type="checkbox"/> Uniform OR ²⁵ _____ % Jan-Mar ²⁵ _____ % Apr-Jun	²⁴ _____ Hrs/day ⁷ _____ Days/wk ⁵² _____ Wk/yr
²⁵ _____ % Jul-Sep ²⁵ _____ % Oct-Dec	Total annual hours ⁸⁷⁶⁰ _____

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		8/20/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547	Email: sukumara@svminerals.com		

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$302 per permit for new or modified permit (or \$172 for change of owner) via check or credit card.

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
 Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD



Application for air pollution control equipment only

Remit **\$302.00** with this document (**\$172.00** for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562		Equip. coordinates (lat/long):	
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products		Company NAICS: 212391	
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012536 _____ Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____		
Adsorbate(s): _____		
Number of beds: _____	Weight of adsorbent per bed: _____	
Dimensions of bed: thickness _____ surface area: _____		
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O	
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____		
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____		
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
---------------------	-----------------	----------------	--------------------------

B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> , please describe: _____			
Heat exchanger used: <input type="checkbox"/> , please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm		Coolant temp.: inlet _____ °F outlet _____ °F	
Gas temp.: inlet _____ °F outlet _____ °F			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS		Model: 96ST25	
Serial No.: _____			
Filtering material: _____		Filtering area: 314	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1200 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 3 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____ Scrubbant flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____			
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42			
<input type="checkbox"/> Other (please specify): _____			
Emissions data:			
Pollutant	Pre-control max. emissions	Units	Post control max. emissions Units
NO _x	_____	_____	_____
NMHC	_____	_____	_____
CO	_____	_____	_____
PM ₁₀	_____	_____	_____
SO _x	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.			

Section 5: Operation information


Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent):	Expected operating hours of equipment
<input checked="" type="checkbox"/> Uniform OR ²⁵ _____ % Jan-Mar ²⁵ _____ % Apr-Jun	²⁴ _____ Hrs/day ⁷ _____ Days/wk ⁵² _____ Wk/yr
²⁵ _____ % Jul-Sep ²⁵ _____ % Oct-Dec	Total annual hours ⁸⁷⁶⁰ _____

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct			
Anoop Sukumaran	Environmental Manager		8/20/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547		Email	sukumara@svminerals.com

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

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 Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD



Application for air pollution control equipment only

Remit **\$302.00** with this document (\$172.00 for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562		Equip. coordinates (lat/long):	
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products		Company NAICS: 212391	
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012537 _____ Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____		
Adsorbate(s): _____		
Number of beds: _____	Weight of adsorbent per bed: _____	
Dimensions of bed: thickness: _____ surface area: _____		
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O	
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____		
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____		
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
---------------------	-----------------	----------------	--------------------------

B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> . please describe: _____			
Heat exchanger used: <input type="checkbox"/> . please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm	Coolant temp.: inlet _____ °F outlet _____ °F	Gas temp.: inlet _____ °F outlet _____ °F	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS	Model: 96ST25	Serial No.: _____	
Filtering material: _____		Filtering area: 314	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1000 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 7.5 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____ Scrubbant flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____				
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify): _____				
Emissions data: _____				
Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.				

Section 5: Operation information

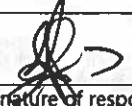
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR 25 % Jan-Mar 25 % Apr-Jun 25 % Jul-Sep 25 % Oct-Dec	Expected operating hours of equipment 24 _____ Hrs/day 7 _____ Days/wk 52 _____ Wk/yr Total annual hours 8160 _____

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S 542301.6)</i>

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Anoop Sukumaran	Environmental Manager		8/20/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547	Email: sukumara@svminerals.com		

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Click "Pay Fees"
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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
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 760.245.1661 • Fax 760.245.2022
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Application for air pollution control equipment only

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d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562		Equip. coordinates (lat/long):	
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products		Company NAICS: 212391	
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012538 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____ Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____	
Adsorbate(s): _____	
Number of beds: _____	Weight of adsorbent per bed: _____
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
---------------------	-----------------	----------------	--------------------------

B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> please describe: _____			
Heat exchanger used: <input type="checkbox"/> please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C. Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm		Coolant temp.: inlet _____ °F outlet _____ °F	
Gas temp.: inlet _____ °F outlet _____ °F			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS		Model: 96ST49	
Serial No.: _____			
Filtering material: _____		Filtering area: 615	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 2200 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 10 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____ Scrubbant flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application			
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42			
<input type="checkbox"/> Other (please specify): _____			
Emissions data:			
Pollutant	Pre-control max. emissions	Units	Post control max. emissions
NO _x	_____	_____	_____
NMHC	_____	_____	_____
CO	_____	_____	_____
PM ₁₀	_____	_____	_____
SO _x	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.			

Section 5: Operation information

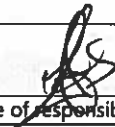

Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR ²⁵ % Jan-Mar ²⁵ % Apr-Jun ²⁵ % Jul-Sep ²⁵ % Oct-Dec	Expected operating hours of equipment ²⁴ Hrs/day ⁷ Days/wk ⁵² Wk/yr Total annual hours ⁸⁷⁶⁰

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

***Please note:** District staff may contact you for further information. Failure to provide additional information as requested in a timely manner may result in delays in the processing of this permit application.

Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547	Email: sukumara@svminerals.com		

Application submission instructions:

- 1) Submit completed application to Engineering@mdaqmd.ca.gov
- 2) Pay the corresponding application fee of \$302 per permit for new or modified permit (or \$172 for change of owner) via check or credit card.

Payment by check:

Make check payable to the Mojave Desert AQMD
 Mail the check with a copy of this completed application to:
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 14306 Park Avenue
 Victorville, CA 92392

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
 14306 Park Avenue, Victorville, CA 92392-2310
 760.245.1661 • Fax 760.245.2022
 Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD



Application for air pollution control equipment only

Remit **\$302.00** with this document (\$172.00 for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562			Equip. coordinates (lat/long):
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products			Company NAICS: 212391
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012539 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____ Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____	
Adsorbate(s): _____	
Number of beds: _____	Weight of adsorbent per bed: _____
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
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B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> please describe: _____			
Heat exchanger used: <input type="checkbox"/> please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C. Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm	Coolant temp.: inlet _____ °F outlet _____ °F	Gas temp.: inlet _____ °F outlet _____ °F	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: Vortex _____	Model: VFS-25-A-A _____	Serial No.: _____	
Filtering material: _____		Filtering area: 232 _____	
Number and dimension of filters: _____			
Cleaning method: <input type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1000 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 3 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Type of scrubber:		
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O		
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____		
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG		
<input type="checkbox"/> other, specify: _____		
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow		
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.		
Scrubbant: _____ Scrubbant flow rate: _____ dscfm		
Control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

G. Other types:

Equipment description: _____		
Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____
Gas flow rate: _____ dscfm		
Control efficiency: _____ % _____ ppmv _____ mg/m ³		
Describe method to monitor control efficiency and breakthrough:		

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application.				
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42				
<input type="checkbox"/> Other (please specify): _____				
Emissions data:				
Pollutant	Pre-control max. emissions	Units	Post control max. emissions	Units
NO _x	_____	_____	_____	_____
NMHC	_____	_____	_____	_____
CO	_____	_____	_____	_____
PM ₁₀	_____	_____	_____	_____
SO _x	_____	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.				

Section 5: Operation information

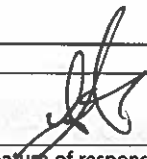
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR ²⁵ % Jan-Mar ²⁵ % Apr-Jun ²⁵ % Jul-Sep ²⁵ % Oct-Dec	Expected operating hours of equipment ²⁴ Hrs/day ⁷ Days/wk ⁵² Wk/yr Total annual hours ⁸⁷⁶⁰ _____

Section 6: Receptor information

Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
Name of closest school (K-12) _____
<i>If the proposed equipment operates within 1,000 feet of a school site and operation results in the emission of hazardous air pollutants, a public notice will be required at the expense of the applicant (CH&S §42301.6)</i>

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Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		8/10/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547		Email: sukumara@svminerals.com	

Application submission instructions:

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- 2) Pay the corresponding application fee of \$302 per permit for new or modified permit (or \$172 for change of owner) via check or credit card.

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
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Email: engineering@mdaqmd.ca.gov
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Application for air pollution control equipment only

Remit **\$302.00** with this document (**\$172.00** for change of owner)

PLEASE TYPE OR PRINT

Section 1: Owner information

a. Permit to be issued to (company name): Searles Valley Minerals Operations, Inc.		b. Federal tax ID #:	
c. Mailing/billing address (for above company name) include city, state and zip code: P.O.Box 367, Trona, CA 93592			
d. Facility or business license name (for equipment location): Searles Valley Minerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"): 13200 Main St., Trona, CA 93562		Equip. coordinates (lat/long):	
f. Contact name: Anoop Sukumaran	Title: Environmental Manager	Email address: sukumara@svminerals.com	Phone: 760-372-2547
General nature of business: Sodium, Boron Products		Company NAICS: 212391	
Type of Organization <input type="checkbox"/> Individual owner <input type="checkbox"/> Partnership <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Utility <input type="checkbox"/> Local agency <input type="checkbox"/> State agency <input type="checkbox"/> Federal agency			

Section 2: Nature of application

Application is hereby made for the following equipment: Dust collector for SUPO plant	
Application is for what type of permit: <input type="checkbox"/> New construction <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Change of owner	For modification or change of owner: C012950 Current Permit Number
Do you claim Confidentiality of Data? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (attach explanation; specify which information provided is confidential)	

Section 3: Equipment information — Complete sections A-G as applicable

Note: Each control unit requires a separate application

A. Adsorption units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included	Manufacturer specifications/guarantee: <input type="checkbox"/> included
Manufacturer: _____	Model: _____ Serial No.: _____
Adsorbent: <input type="checkbox"/> Activated charcoal: type _____ <input type="checkbox"/> Other: specify _____	
Adsorbate(s): _____	
Number of beds: _____	Weight of adsorbent per bed: _____
Dimensions of bed: thickness: _____ surface area: _____	
Inlet temperature: _____ °F	Pressure drop across unit: _____ inches H ₂ O
Regeneration: <input type="checkbox"/> Replacement <input type="checkbox"/> Steam <input type="checkbox"/> Other, specify: _____	
Regeneration method: <input type="checkbox"/> shut down <input type="checkbox"/> alternate use, specify: _____ <input type="checkbox"/> other, specify: _____	
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³	
Describe method to monitor control efficiency and breakthrough:	

-For District use only-

Application number:	Invoice number:	Permit number:	Company/facility number:
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B. Afterburner units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Combustion chamber dimensions: length: _____ in. Cross sectional area: _____ sq. in.			
Fuel: <input checked="" type="checkbox"/> natural gas <input type="checkbox"/> propane <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Number and rating of burners: _____		Operating temperature of combustion chamber in °F: _____	
Inlet temperature: _____ °F		Pressure drop across unit: _____ inches H ₂ O	
Gas flow rate: _____ dscfm			
Catalyst used: <input type="checkbox"/> please describe: _____			
Heat exchanger used: <input type="checkbox"/> please describe: _____			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

C: Condenser units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Heat exchange area: _____ ft ²			
Coolant rate: _____ units type: <input type="checkbox"/> water <input checked="" type="checkbox"/> air <input type="checkbox"/> CARB diesel <input type="checkbox"/> other, specify: _____			
Gas flow rate: _____ dscfm		Coolant temp.: inlet _____ °F outlet _____ °F	
Gas temp.: inlet _____ °F outlet _____ °F			
Minimum control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

D. Electrostatic precipitator units:

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____		Model: _____	
Serial No.: _____			
Collecting electrode area: _____ ft ²			
Gas flow rate: _____ dscfm			
Describe method to monitor control efficiency and breakthrough:			

E. Filter units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: SCHENCK PROCESS		Model: 96ST49	
Serial No.: _____			
Filtering material: _____		Filtering area: 615	
Number and dimension of filters: _____			
Cleaning method: <input checked="" type="checkbox"/> shaker <input type="checkbox"/> reverse air <input type="checkbox"/> pulse air <input type="checkbox"/> pulse jet <input type="checkbox"/> other, specify: _____			
Gas flow rate: 1900 _____ dscfm			
Unit measured with a manometer gauge? <input type="checkbox"/> yes <input checked="" type="checkbox"/> no		Manufacturer's specified pressure differential range: _____ inches H ₂ O	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Motor size: 7.5 _____ bhp		Fan size: _____ inches	
Describe method to monitor control efficiency and breakthrough:			

F. Scrubber units

Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Type of scrubber:			
<input type="checkbox"/> high energy, gas stream pressure drop: _____ inches H ₂ O			
<input type="checkbox"/> packed: packing type _____ packing size _____ packing material height _____			
<input type="checkbox"/> spray: number of nozzles _____ nozzle pressure _____ PSIG			
<input type="checkbox"/> other, specify: _____			
Flow type: <input type="checkbox"/> concurrent <input type="checkbox"/> countercurrent <input type="checkbox"/> crossflow			
Scrubber dimensions: length in direction of gas flow _____ in. cross sectional area _____ sq. in.			
Scrubbant: _____		Scrubbant flow rate: _____ dscfm	
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

G. Other types:

Equipment description: _____			
Flow diagram of emissions source and control unit: <input type="checkbox"/> included		Manufacturer specifications/guarantee: <input type="checkbox"/> included	
Manufacturer: _____	Model: _____	Serial No.: _____	
Gas flow rate: _____ dscfm			
Control efficiency: _____ % _____ ppmv _____ mg/m ³			
Describe method to monitor control efficiency and breakthrough:			

Section 4: Emissions data

Emission Factor Basis (attach any source specified): See emission calculations in permit application. _____			
<input type="checkbox"/> Manufacturer <input type="checkbox"/> Source test <input type="checkbox"/> MDAQMD default <input type="checkbox"/> USEPA AP-42			
<input type="checkbox"/> Other (please specify): _____			
Emissions data:			
Pollutant	Pre-control max. emissions	Units	Post control max. emissions
NO _x	_____	_____	_____
NMHC	_____	_____	_____
CO	_____	_____	_____
PM ₁₀	_____	_____	_____
SO _x	_____	_____	_____
Toxic pollutants — Please include a list of all toxic air pollutants and their emission rates if known.			

Section 5: Operation information

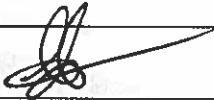
Fuel Consumption: _____ at max rated load <input type="checkbox"/> gal/hour <input type="checkbox"/> SCF/hour <input type="checkbox"/> MMBtu/hr	
Typical load: _____	
Facility annual operation by quarters (percent): <input checked="" type="checkbox"/> Uniform OR ²⁵ % Jan-Mar ²⁵ % Apr-Jun ²⁵ % Jul-Sep ²⁵ % Oct-Dec	Expected operating hours of equipment ²⁴ Hrs/day ⁷ Days/wk ⁵² Wk/yr Total annual hours ⁸⁷⁶⁰ _____

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Distance (feet) and direction to the property line of closest: _____ residence _____ business _____ school _____
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Section 7: Certification

I hereby certify that all information contained herein is true and correct.			
Anoop Sukumaran	Environmental Manager		8/20/20
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-372-2547	Email: sukumara@svminerals.com		

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012532

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE, SUPO DRYER consisting of:
Make & Model: DUSTEX 6230-8-8 or Equivalent
Air Volume: 5000 scfm
Filter Area: 1007 ft²
Air to Cloth: 4.97:1
Exhaust Air Fan : 30 HP
Cyclone Separator: 43 diameter x 242.250" tall

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the SUPO Dryer System under District permit B012530.
[District Rule 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:


Brad Poiriez

Air Pollution Control Officer

recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual filter and filter suspension system inspection date and results.
- d. Date of filter replacements.
- e. Date and nature of any system repairs.

[District Rules 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.085 lb/hr.

[District Rules 404; 1303]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges.

[District Rule 1303]

6. The owner/operator, at a minimum, shall conduct an initial compliance test in accordance to CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall be within 90 days of initial operation of the Supo Dryer System (B012530). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[Districts Rule 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012534

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE #1, SUPO STORAGE SILO #1 consisting of:
Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
Air Volume: 1200 scfm
Filter Area: 314 ft²
Air to Cloth: 3.8:1
Exhaust Air Fan : 3 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rules 204; 1303]
2. This equipment shall be operated concurrently with the Supo Transfer and Storage System covered in District permit B012531.
[District Rules 204; 404; 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

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Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:


Brad Poiriez

Air Pollution Control Officer

recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual filter and filter suspension system inspection date and results.
- d. Date of filter replacements.
- e. Date and nature of any system repairs.

[District Rules 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.020 lb/hr.

[District Rules 204; 404; 1303 - BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges. [District Rule 1303]

6. The owner/operator, at a minimum, shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535, or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012535

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE #2, SUPO STORAGE SILO #2 consisting of:
Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
Air Volume: 1200 scfm
Filter Area: 314 ft²
Air to Cloth: 3.8:1
Exhaust Air Fan : 3 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rules 204; 1303]
2. This equipment shall be operated concurrently with the Supo Transfer and Storage System covered in District permit B012531.
[District Rules 204; 404; 1303]
3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5)

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:


Brad Poiriez

Air Pollution Control Officer

years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
 - b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
 - c. Annual filter and filter suspension system inspection date and results.
 - d. Date of filter replacements.
 - e. Date and nature of any system repairs.
- [District Rules 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.020 lb/hr.
[District Rules 204; 404; 1303- BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges.
[District Rule 1303]

6. The owner/operator, at a minimum, shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535 or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012536

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE #3, SUPO STORAGE SILO #3 consisting of:
Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
Air Volume: 1200 scfm
Filter Area: 314 ft²
Air to Cloth: 3.8:1
Exhaust Air Fan : 3 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the Supo Transfer and Storage System covered in District permit B012531.
[District Rule 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By: 

Brad Poiriez

Air Pollution Control Officer

for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
 - b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
 - c. Annual filter and filter suspension system inspection date and results.
 - d. Date of bag replacements.
 - e. Date and nature of any system repairs.
- [District Rules 204; 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.020 lb/hr.
[District Rules 404; 1303 - BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges. [District Rule 1303]

6. The O/O at a minimum shall conduct an initial compliance test on any one of the Baghouses (C012534, C012535 or C012536) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012537

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE, SUPO BULK LOADOUT TRANSFER DRAG CONVEYORS consisting of:
Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
Air Volume: 1000 scfm
Filter Area: 314 ft²
Air to Cloth: 3.2:1
Exhaust Air Fan :7.5 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the Supo Bulk Loadout System covered in District permit B012533.
[District Rule 1303]
3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5)

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

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Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By: 
Brad Poiriez
Air Pollution Control Officer

years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual filter and filter suspension system inspection date and results.
- d. Date of filter replacements.
- e. Date and nature of any system repairs.

[District Rules 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.017 lb/hr.

[District Rules 404; 1303 - BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges.

[District Rule 1303]

6. The owner/operator shall conduct an initial compliance test in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall occur within 90 days of initial operation of the Supo Bulk Loadout System (B012533). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012538

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

BAGHOUSE, SUPO BULK LOADOUT BIN consisting of:
Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
Air Volume: 2200 scfm
Filter Area: 615 ft²
Air to Cloth: 3.6:1

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the Bulk Loadout System covered in District permit B012533.
[District Rule 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

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Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:


Brad Poiriez

Air Pollution Control Officer

limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual filter and filter suspension system inspection date and results.
- d. Date of bag replacements.
- e. Date and nature of any system repairs.

[District Rules 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.037 lb/hr.

[District Rules 404; 1303 - BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges. [District Rules 1303]

6. The owner/operator shall conduct an initial compliance test within 90 days of initial operation of the Supo Bulk Loadout System (B012533) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. A USEPA Method 9 shall also be performed during the initial operation compliance test. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012539

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

IN-LINE CARTRIDGE SPOUT FILTER, SUPO BULK LOADOUT consisting of:
Model: Vortex Model VFS-25-A-A or Equivalent
Air Volume: 1000 scfm
Filter Area:
Cartridges 232 ft2
Air to Cloth: 4.3:1
Exhaust Air Fan : 3 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the Bulk Loadout System covered in District permit B012533.
[District Rule 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/Coordinates:
+35.76253, -117.37871

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Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:
Brad Poiriez

Air Pollution Control Officer

recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
- b. Monthly readings of differential pressure drop, date and value- differential pressure drop shall not exceed manufacturer recommendations.
- c. Annual filter and filter suspension system inspection date and results.
- d. Date of filter replacements.
- e. Date and nature of any system repairs.

[District Rules 401; 1303]

4. The maximum grain loading in the stack of this spout filter shall not exceed 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.017 lb/hr.

[District Rule 404; 1303]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges.

[District Rule 1303]

6. The O/O shall conduct an initial compliance test within 90 days of initial operation of the Supo Bulk Loadout System (B012533) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. A USEPA Method 9 shall also be performed during the initial operation compliance test. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

[District Rules 404; 1303]



MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

C012950

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: DECEMBER 2020

OWNER OR OPERATOR (Co. #9)

Searles Valley Minerals Operations, Inc
13200 Main Street
Trona, CA 93562

EQUIPMENT LOCATION (Fac. #2)

SVM - Trona Plant
13200 Main Street
Trona, CA 93562

Description:

DUST COLLECTOR, SUPO DRYER DISCHARGE AND PRODUCT TRANSFER TO STORAGE SILOS consisting of: Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
Air Volume: 1900 scfm
Filter Area: 615 ft²
Air to Cloth: 3.1:1
Exhaust Air Fan : 7.5 HP

CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.
[District Rule 204]
2. This equipment shall be operated concurrently with the Supo Dryer System covered in District permit B012530 and Supo Transfer and Storage Silos covered in District permit B012531.
[District Rules 204; 404; 1303]
3. The owner/operator shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site

Fee Schedule: 7 (h)

Rating: 1 device

SIC: 1474

SCC: 30502101

Location/UTM(Km):
466E/3957N

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Searles Valley Minerals Operations, Inc
P.O. Box 367
Trona, CA 93592-0367

By:
Brad Poiriez
Air Pollution Control Officer

for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:

- a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
 - b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
 - c. Annual filter and filter suspension system inspection date and results.
 - d. Date of filter replacements.
 - e. Date and nature of any system repairs.
- [District Rules 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.032 lb/hr.
[District Rules 404; 1303 - BACT]

5. The owner/operator shall maintain on site a minimum inventory of replacement filter cartridges.
[District Rule 1303]

6. The owner/operator, at a minimum, shall conduct an initial compliance test in accordance to CARB/USEPA Method 5 to show compliance with Condition 4. The testing shall be within 90 days of initial operation of the Supo Dryer System (B012530) and Supo Transfer and Storage Silos (B012531). The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rules 404; 1303]

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