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

EPA/CARB 45-day Commenting Period ends: January 18, 2021

Public Notice Posted: December 9, 2020

Public Commenting Period ends: January 8, 2021

Permit Issue date: On or about January 22, 2021

Permitting Engineer: Chris Anderson

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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 PM_{10} 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 (NOx 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 $0.002~\rm gr/dscf$ 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).

Emissions Change = (Proposed Emissions) – (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
Pre-i	nodification	emissions:				
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
		Su	ıb-total, pre-n	nodification	2207.5	1.10
Post-	modification	i emissions:				
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
		Sui	b-total, post-n	nodification	5518.8	2.76

Total Change in PM ₁₀ Emissions, ton/yr	1.66
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Table 2 – Emission Offsets

Emissions	PM ₁₀ (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 available ¹	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 PM_{10}). [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
Supo Project Emission Units	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.

t	Risk, per million	HI 0 241	(1) 4 97
	Cancer	Chronic	Acute THI

Preliminary Facility HRA Result

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 0.0025 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 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 scfmFilter Area: 314 ft2Air 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 scfmFilter Area: 615 ft2Air 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 ft2Air 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 0.0025 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.01743 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 scfmFilter Area: 615 ft2Air 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

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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 106

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

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South San Francisco, CA 94080-7037

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Environmental Manager, CalPortland-Oro

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Air Program Manager, N45NCW, NAWS

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Mr. Randy Lack

Chief Marketing Officer, Element Markets,

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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

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Senior EHS Analyst, NASA/Goldstone DSCC

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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

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Twentynine Palms, CA 92278-8110

Environmental Manager

Mobile Pipe Lining & Coating, Inc

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National Park Service, Air Resources Div

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Environmental Scientist, PG&E

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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

Air Program Manager, Bureau of Indian 1451 Research Park Drive, Suite 100

Riverside, CA 92507

Mr. Steve Cummings

Senior Air Quality Tech Specialist, Southern

P.O. Box 800

Rosemead, CA 91770

Mr. Ralph McCullers

EH&S Manager, OMYA (California), Inc.

7225 Crystal Creek Rd Lucerne Valley, CA 92356

Mr. Josh Dugas

Division Chief, San Bernardino County EHS 385 N Arrowhead Ave, Second Floor

San Bernardino, CA 92415-0160

Mr. Dan Guillory

Environmental Contact, Metropolitan Water

P O Box 54153

Los Angeles, CA 90054

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Apple Valley, CA 92307

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Chairman, Gabriel Band of Mission Indians -

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Sr. Specialist - Permitting & Compliance,

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Houston, TX 77002

Mr. Zeyd Tabbara

Broker, BGC Environmental Brokerage

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Ms. Jaclyn Ferlita Air Quality Consultants

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Mr. Kou Thao

Air Quality, Pacific Gas and Electric (Attn Air

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Mr. Rick Renteria

EH&S Manager, Northwest Pipe Co.

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Ms. Lisa Beckham

United States EPA, Region IX

75 Hawthorne Street

San Francisco, CA 94105

Chief, San Gabriel Band of Mission Indians

PO Box 693

San Gabriel, CA 91778

Ms. Jenna Latt

CARB/Office of Ombudsman

9480 Telstar Avenue, Annex 1

El Monte, CA 91731

Mrs. Samantha Lopez

Permit Engineer, Mojave Desert AQMD

14306 Park Ave

Victorville, CA 92392

Mr. John Vidic

Air Program Manager, USAF 412

120 N. Rosamond Blvd, Bldg. 3735 (Ste A)

Edwards AFB, CA 93524

Ms. Alexandra Minitrez

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Manager, Permit Evaluation Section,,

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Environmental Team Lead, SoCalGas

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Pico Rivera, CA 90660

Mr. Robert Leone

Governing Board Member, Town of Yucca

57090 29 Palms Highway

Yucca Valley, CA 92284

Appendix B Application



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.

Sincerelly.

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-Mo	dification				
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-Mo	odification				
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, Pre-modification:	-	-	-	-	0.63	2.759

Summary

Change in PM10 Emissions (ton/yr)	1.656



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



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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 SOx 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

[X] Shutdown

] Modification

Other:



June 30, 20

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 MO	ODIFICATION	X SIGNIFICANT MOD	IFICATION
OFF-PERMIT CHANGE			
	·**		
1. FACILITY NAME: Searles Valley Minerals Operations,	Inc.		
2. FACILITY ID: 002			
3. TITLE V PERMIT NO: 90002			
4. TYPE OF ORGANIZATION: ☑ Corporation ☐ Sole Ownership ☐ G	overnment	tnership 🔲 Utility	
5. COMPANY NAME: Searles Valley Minerals Operations	s, Inc.		
6. COMPANY MAILING/BILLING ADDRESS: STREET/P.O. BOX: P.O.BOX 367			
CITY: Trona STATE: CA	9-DIGIT ZIP CODE	93592-0367	11
7. FACILITY ADDRESS: STREET: 13200 Main St.			PROPOSED DATE OF INSTALLATION:
CITY: Trona STATE: CA	9-DIGIT ZIP CODE:	93592-0367	
8. DISTANCES (FEET AND DIRECTION) TO CLOSEST:			
FENCELINE: RESIDENCE:	BUSINESS:	SCHOOL:	
9. GENERAL NATURE OF BUSINESS: Sodium, Boron Product	:S		
10. DESCRIPTION OF EQUIPMENT OR MODIFICATION FOR WHICH AP (include Permit #'s if known, and use additional sheets if necessar		E	
Modifications to Dust Collectors for SUPO plant.			j
11. PERSON TO CONTACT FOR INFORMATION ON THIS APPLICATION	 l:		
NAME:Anoop Sukumaran	DISONE MUNADED	760-372-2547	
IVAIVIL.	PHONE NUMBER:		
TITLE: Environmental Manager	EMAIL: Sukuma	ara@svminerals.com	1
	~		

II.	COMPLIANCE CERTIFICATION (F	tead each statement carefully and check all for confirmation):		
X	Based on information and belief continue to comply with the app	formed after reasonable inquiry, the equipment identified in this application will licable federal requirement(s).		
X		formed after reasonable inquiry, the equipment identified in this application will comply ent(s) that will become effective during the permit term, on a timely basis.		
X	Corrected information will be probeen submitted.	Corrected information will be provided to the District when I become aware that incorrect or incomplete information has been submitted.		
X		formed after reasonable inquiry, information and statements in the submitted accompanying reports, and required certifications are true accurate and complete.		
I de	edare, under penalty of perjury under the	ne Jaws of the state of California, that the forgoing is correct and true:		
6	a Modanto	nd 2-20-2020		
Sig	nature of Responsible Official	Date		
	•	Date		
_	Burnell H. Blanchard			
Na	me of Responsible Official (please print)		
_\	/ice President Operations			
Titl	e of Responsible Official (please print)			
	*			
_				
	AQMD Use Only:			
I DAII	E STAMP I	COMPANY		

DISTRICT PERMIT

APPLICATION NO:

/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 inform	mation				
a. Permit to be issued to (company nam	o. Federal tax ID #:				
Searles Valley Minerals Operations, Inc.					
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		nerals Operations, Inc.			
e. Facility Address — Location of equipment (if same as for company, enter "Same"); Equip. coordinates (lat/long):					
13200 Main St., Trona, CA 93562		A CONTRACTOR OF THE PARTY OF TH	5.40%		
f. Contact name:	Title:	Email address:	Phone:		
Anoop Sukumaran	Environmental Manager	sukumara@svmineral	s.com 760-372-2547		
General nature of business:	Company NAICS:				
Sodium, Boron Products			212391		
Type of Organization			<u> </u>		
☐ Individual owner ☐ Partnership ☑ Corporation ☐ Utility ☐ Local agency ☐ State agency					
Federal agency					
Section 2: Nature of application					
Application is hereby made for the follo	wing equipment:				
Dust collector for SUPO plant					
Application is for what type of permit:		For modification or change	of owner:		
New construction Modification Change of owner C012532 Current Permit Number					
Do you claim Confidentiality of Data? No Yes (attach explanation; specify which information provided is confidential)					
Section 3: Equipment is	nformation — Co	mplete sections A-	G as applicable		
			o as appenduste		
Note: Each control unit requires a separate application					
A. Adsorption units:					
Flow diagram of emissions source and control unit: Included Manufacturer specifications/gu		ons/guarantee: included			
Manufacturer:	Model:	Serial No	î.:		
Adsorbent: Activated charcoal: typeOther: specify					
Adsorbate(s):					
Number of beds: Weig		Weight of adsorbent per I	Veight of adsorbent per bed:		
Dimensions of bed: thickness: surface area:					
nlet temperature:°F Pressure drop across unit:			inches H ₂ O		
Regeneration: Replacement Ste	eam Other, specify:				
Regeneration method: shut down alternate use, specify:		other, specify:			
Minimum control efficiency:					
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 cor	strol unit: Dincluded	Manufacturer :	specifications/guarantee: 🔲 includ	ded
Manufacturer:	Model:		Serial No.:	·····
Combustion chamber dimensions: length	: in. Cross section	onal area: :		···
Fuel: natural gas propane	CARB dieselother, sp	pecify:		
Number and rating of burners:	<u> </u>	Operating temp	perature of combustion chamber in	ı °F:
Inlet temperature:	°F		cross unit:	
Gas flow rate: dscfm				- 4
Catalyst used: , please describe:	in a	<u></u> -	- N y 327	
Heat exchanger used: please describe		1 6000	(=10.9)(60)	3.0000000
Minimum control efficiency:	%ppmv	mg	g/m³	
Describe method to monitor control efficient	ency and breakthrough:	ibe -		
	197.0	4		_
C: Condenser units:				
Flow diagram of emissions source and con	trol unit: included	Manufacturer	specifications/guarantee: inclu	ded
Manufacturer:	Model:		Serial No.:	
Heat exchange area:ft²	100 2500			=XI, I,
Coolant rate: units ty	oe: Twater Dair I	TCARB diesel	Other specify:	
Gas flow rate: dscfm Coolan	t temp : inlet *F o	utlet °F	Gas temp.: inlet °F ou	tlet °F
Minimum control efficiency:				tiet i
D. Electrostatic precipitator unit	·c•			
Flow diagram of emissions source and con		Manufacturar	specifications/guarantee: includ	de d
Manufacturer:	Model:	Manufacturer		
Collecting electrode area: ft ²	Model.		Serial No.:	
Gas flow rate: dscfm				
Describe method to monitor control efficie	ncy and breakthrough:			
E. Filter units				
Flow diagram of emissions source and con-	trol unit: Dincluded	Manufacturer sp	ecifications/guarantee: include	
	Model: 6230-8-8	Trianguetarer sp	Serial No.:	<u> </u>
Filtering material:		Filtering area 100		
Number and dimension of filters:		ritering area.		
Cleaning method: Shaker reverse	air 🔲 pulse air 🔲 pu	ulse jet 🔲 othe	r, specify:	
Gas flow rate: 5000 dscfm	an Espaise an Espa	use let 🔽 ottle	, specify.	
Jnit measured with a manometer gauge?	Tues Mas	Manufactured	anifical number of the control of	1
			ecified pressure differential range:	inches H20
Control efficiency: %	ppmv	mg/m³		
100000000000000000000000000000000000000	n size:	inches		
Describe method to monitor control efficie	ncy and breakthrough:			

F. Scrupper units				
Flow diagram of emissions source and control unit:	included	Manufacturer sp	pecifications/guarantee:	included
Manufacturer: Model:			Serial No.:	
Type of scrubber:				
high energy, gas stream pressure drop: inc	ches H ₂ O			
packed: packing type packing size	packir	ng material height		
spray: number of nozzles nozzle pressure	е Р	SIG		
other, specify:				
Flow type: concurrent countercurrent cr	ossflow	·		
Scrubber dimensions: length in direction of gas flow		cross sectional are	a sq. in.	
Scrubbant: Scrubbant flow rate:				
Control efficiency:%ppm			FREE ST.	
Describe method to monitor control efficiency and brea				
100	7			
G. Other types:				
Equipment description:				
Flow diagram of emissions source and control unit:	included	Manufacturer	specifications/guarantee	
Manufacturer: Model:			Serial No.:	
Gas flow rate: dscfm				
Control efficiency: %ppm	ıv	mg/m³		
Section 4: Emissions data				
Emission Factor Basis (attach any source specified): See	emission calculation	nos in nermit application		
Manufacturer Source test MDAQMD defa Other (please specify):				
Emissions data:	159			
	nits	Post contro	ol max. emissions	Units
NO _x				
		-		
NMHC				
co				
PM ₁₀				
50				
SO _x				
Toxic pollutants — Please include a list of all toxic air po	ollutants and	their emission rat	es if known.	
Section 5: Operation information	n			
Fuel Consumption:at max rated le		hour SCF/ho	ur MMBtu/hr	
Typical load:		ined -		100
Facility annual operation by quarters (percent):		Expected operat	ing hours of equipment	
Uniform OR 25 % Jan-Mar 25 % Apr-Jun			day <u>1</u> Days/wk	Wk/yr
25 % Jul-Sep 25 % Oct-Dec		Total	annual hours 8760	

Distance (feet) and direction to the property line of closest:	residence	business	_ school
Name of closest school (K-12)			
If the proposed equipment operates within 1,000 feet of a sc	hool site and operation re	esults in the emission of hazardous air	
pollutants, a public notice will be required at the expense of	the applicant (CH&S §42.	301.6)	

*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: Certificat	ion	//	
I hereby certify that all information	n contained herein is true and co	orrect.	
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of yesponsible official	S/2010 Date signed
Phone: 760-372-2547	4	Email: sukumara@svm	inerals.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.

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Section 1: Owner into	rmation				
a. Permit to be issued to (company na	b. Federal tax ID #:			t:	
Searles Valley Minerals Operations, Inc.					
c. Mailing/billing address (for above of P.O.Box 367, Trona, CA 93592	ompany name) include city, s	tate and zip code:			
d. Facility or business license name (fo	or equipment location):	150	Cill		
	Searles Valley N	Vinerals Operations, Inc.			
e. Facility Address — Location of equi 13200 Main St., Trona, CA 93562	pment (if same as for compa	ny, enter "Same"):	(9. 111)	Equip. c	oordinates (lat/long):
f. Contact name:	Title:	Email address	; = =	Phone:	Ed.
Anoop Sukumaran	Environmental Manager	sukumara@svn	ninerals.com	760-372	2547
General nature of business:		·		Compar	ny NAICS:
Sodium, Boron Products			l	212391	
Type of Organization Individual owner Partne Federal agency	rship	Utility	Local agenc	у [State agency
Section 2: Nature of a	7 .				
Application is hereby made for the fo	lowing equipment:				
Dust collector for SUPO plant					
Application is for what type of permit		For modification or cl	nange of owne	er:	
■ New construction ✓ Modification	n Change of owner	C012534	Current Pe	rmit Num	ber
Do you claim Confidentiality of Data?	No Yes (atta	ch explanation; specify	which informa	ation pro	vided is confidential)
Section 3: Equipment Note: Each control unit red A. Adsorption units: Flow diagram of emissions source and	quires a separate ap				
Manufacturer:	Model:	Ser	ial No.:		
Adsorbent: Activated charcoal: type		Other: specify			
Adsorbate(s):		LIE de la constitución de la con			
Number of beds:	-	Weight of adsorbent	per bed:		
Dimensions of bed: thickness:	surface area:				
Inlet temperature	°F	Pressure drop across	unit:		inches H,O
Regeneration: Replacement	Steam Other, specify: _				
Regeneration method: Shut down	alternate use, specify:		other	, specify:	
Minimum control efficiency:	%ppmv	mg/m³			
Describe method to monitor control en	ficiency and breakthrough:				
	-For Distri	ict use only-			
Application number: Inv	oice number:	Permit number:		Compar	v/facility number

B. Afterburner units:				
	included	Manufacturer s	specifications/guarantee:	included
Manufacturer: Model:	-		Serial No.:	·
	Cross section	nal area:s	sq. in.	
Fuel:natural gaspropaneCARB diesel	other, spe	ecify:		
Number and rating of burners:		Operating temp	erature of combustion ch	amber in °F:
Inlet temperature:°F		Pressure drop a	cross unit:	inches H ₂ O
Gas flow rate: dscfm				
Catalyst used:, please describe:				
Heat exchanger used: please describe:				
Minimum control efficiency: %	D.D.OO.		(m)	
THE PERSON NAMED IN COLUMN TO SERVICE AND		nng	lyitis.	
Describe method to monitor control efficiency and break	through:			
1				A C
C: Condenser units:				
Flow diagram of emissions source and control unit:	included	Manufacturer :	specifications/guarantee:	included
Manufacturer: Model:			Serial No.:	
Heat exchange area:ft ²				# 1
Coolant rate: units type: water		CARB diesel	other, specify:	
Gas flow rate: dscfm	°F οι	ıtlet°F	Gas temp.: inlet	°F outlet °F
Minimum control efficiency: %	ppmv	mg	ı/m³	
D. Electrostatic precipitator units:				
Flow diagram of emissions source and control unit:	included	Manufacturer s	specifications/guarantee:	included
Manufacturer: Model:			Serial No.:	
Collecting electrode area:ft²	1,000			
Gas flow rate: dscfm	337			
Describe method to monitor control efficiency and break	46			
sescribe method to monitor control eniciency and break	unrough.			
				7-
E. Filter units				
		Manufacturer sp	ecifications/guarantee:	included
Manufacturer: SCHENCK PROCESS Model: 96ST25			Serial No.:	
iltering material:	F	iltering area: 314		
Number and dimension of filters:	14//			
leaning method: 🗖shaker 🔲 reverse air 🔲 pulse	air 🔲 pul	se jet 🔲 other	r, specify:	
Sas flow rate: 1200 dscfm				
Jnit measured with a manometer gauge? ☐ yes ☐ no	N.	/anufacturer's sp	ecified pressure differentia	al range:inches H20
Control efficiency: %ppmv		mg/m³	···	<u> </u>
Motor size: 3 bhp Fan size:		inches	·	
Describe method to monitor control efficiency and breakt	through:		·	····
Describe method to monitor control efficiency and breakt		inches		

F. Scrubber units	
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee: included
Manufacturer: Model:	Serial No.:
Type of scrubber:	
high energy, gas stream pressure drop: inches H ₂ O	
packed: packing type packing size packing	king material height
spray: number of nozzles nozzle pressure	PSIG
other, specify:	
Flow type: concurrent countercurrent crossflow	
Scrubber dimensions: length in direction of gas flowin.	cross sectional area sq. in.
Scrubbant flow rate:	dscfm
Control efficiency:%ppmv	
Describe method to monitor control efficiency and breakthrough:	
G. Other types:	
Equipment description:	
Flow diagram of emissions source and control unit: included	
Manufacturer: Model:	Serial No.:
Gas flow rate: dscfm	
Control efficiency: %ppmv	mg/m³
Section 4: Emissions data	
Emission Factor Basis (attach any source specified): See emission calcu	lations in permit application
Manufacturer	JSEPA AP-42
Emissions data:	
Pollutant Pre-control max. emissions Units	Post control max, emissions Units
NO _x	
NMHC	499-1
СО	1 =
PM ₁₀	n.
SO _x	34.0
Toxic pollutants — Please include a list of all toxic air pollutants ar	nd their emission rates if known.
Section 5: Operation information	
	al/hour SCF/hour MMBtu/hr
Typical load:	Street Floor Moon Floor Internation
Facility annual operation by quarters (percent):	Expected operating hours of equipment
✓ 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

Distance (feet) and direction to the property line of closest:	residence	business	school
Name of closest school (K-12)			
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 app	licant (CH&S §42301.6)		

*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 of	contained herein is true and c	orrect.		
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of respo	onsible official	Date signed
Phone: 760-372-2547		Email:	sukumara@svmine	rals.com

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PLEASE TYPE OR PRINT

ojave esert Air Quality Management District everybody's business

Section 1: Owner information

Section 1: Owner inform	nation			
a. Permit to be issued to (company name	b. Feder	al tax ID #:		
Searles Valley Minerals Operations, Inc.				
c. Mailing/billing address (for above com P.O.Box 367, Trona, CA 93592	pany name) include city, stal	te and zip code:		
d. Facility or business license name (for e				
		erals Operations, Inc.	1000	(viii
e. Facility Address — Location of equipm 13200 Main St., Trona, CA 93562	ent (if same as for company	, enter "Same"):		Equip. coordinates (lat/long):
f. Contact name:	SS:	Phone:		
Anoop Sukumaran	minerals.com	760-372-2547		
General nature of business:		111		Company NAICS:
Sodium, Boron Products				212391
Type of Organization Individual owner Partnershi Federal agency	p Corporation	Utility [Local agen	cy State agency
Section 2: Nature of app	olication			
Application is hereby made for the follow	ing equipment:			
Dust collector for SUPO plant				
Application is for what type of permit:	F	or modification or	change of owr	er:
New construction Modification Change of owner C012535 Current Permit Number				
Do you claim Confidentiality of Data?	NoYes (attach	explanation; specif	which inform	nation provided is confidential)
Section 3: Equipment in Note: Each control unit requ A. Adsorption units:			ns A-G as	applicable
Flow diagram of emissions source and con	ntrol unit: included	Manufacturer spec	ifications/gua	rantee: included
Manufacturer:	Model:	Se	erial No.:	
Adsorbent: Activated charcoal: type	o	ther: specify		
Adsorbate(s):		elignos.	111	on 1992 — — — — — — — — — — — — — — — — — —
Number of beds:		Weight of adsorbe	nt per bed	
Dimensions of bed: thickness:	surface area:			
Inlet temperature:	°F	Pressure drop acro	ss unit:	inches H ₂ O
Regeneration: Replacement Stea	nm 🔲 Other, specify:			
Regeneration method: shut down	alternate use, specify:		othe	r, specify:
Minimum control efficiency:	%ppmv _	mg/m	3	
Describe method to monitor control effici	ency and breakthrough:			
	-For District	use only-		
Application number: Invoice	number:	Permit number:	-14 83 44	Company/facility number:

Flow diagram of emissions source and control unit: in	cluded Manufacturer specifications/guarantee:included
Manufacturer: Model:	Serial No.:
	oss sectional area: sq. in.
Fuel: ☐natural gas ☐propane ☐CARB diesel ☐	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:, please describe:	
Heat exchanger used:, please describe:	
Minimum control efficiency: %	
Describe method to monitor control efficiency and breakthi	
bescribe method to morntor control emiliency and breaking	rough.
C: Condenser units:	
	cluded Manufacturer specifications/guarantee:included
Manufacturer: Model:	
Heat exchange area: ft²	
	air CARB diesel other, specify:
Gas flow rate: dscfm Coolant temp.: inlet	
Minimum control efficiency:	
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units:	
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit: inc	cluded Manufacturer specifications/guarantee: included
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit: inc	rough:
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:	cluded Manufacturer specifications/guarantee: included
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft²	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units	cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units Flow diagram of emissions source and control unit:ind	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakths E. Filter units Flow diagram of emissions source and control unit:inc Manufacturer: Model: files.	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included Serial No.:
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units Flow diagram of emissions source and control unit:inc Manufacturer: SCHENCK PROCESS Model: Model: filtering material:	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units Flow diagram of emissions source and control unit:ind Manufacturer: SCHENCK PROCESS Model: 96ST25 Filtering material: Mumber and dimension of filters:	cluded Manufacturer specifications/guarantee:included
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakths E. Filter units Flow diagram of emissions source and control unit:inc Manufacturer: Model: filtering material: Number and dimension of filters: pulse ai	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included Serial No.: Filtering area: 314
Describe method to monitor control efficiency and breakthr D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units Flow diagram of emissions source and control unit:inc Manufacturer: SCHENCK PROCESS Model: 96ST25 Filtering material: Number and dimension of filters: Cleaning method: shaker reverse air pulse air Gas flow rate: dscfm	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included Serial No.: Filtering area: 314 ir pulse jet other, specify:
Describe method to monitor control efficiency and breakths D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:inc Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakths E. Filter units Flow diagram of emissions source and control unit:inc Manufacturer: Model: 96ST25 Filtering material: Number and dimension of filters: Cleaning method: shaker reverse air pulse air Gas flow rate: dscfm Unit measured with a manometer gauge? yes no	cluded Manufacturer specifications/guarantee: included Serial No.: rough: cluded Manufacturer specifications/guarantee: included Serial No.: Filtering area: 314 ir pulse jet other, specify:
D. Electrostatic precipitator units: Flow diagram of emissions source and control unit:ind Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthr E. Filter units Flow diagram of emissions source and control unit:ind Manufacturer: SCHENCK PROCESS Model: 96ST25 Filtering material: Model:	cluded Manufacturer specifications/guarantee:included

F. Scrubber units					
Flow diagram of emissions s	ource and control unit:	included	Manufacturer s	pecifications/guarantee:	included
Manufacturer:	Model:			Serial No.:	
Type of scrubber:					
☐high energy, gas stream	pressure drop: i	nches H₂O			
packed: packing type	packing size	packi	ng material heigh	t	
spray: number of nozzles	nozzle press	ure f	PSIG		
other, specify:					
Flow type: Concurrent	□ countercurrent □	crossflow			
Scrubber dimensions: length			cross sectional an	ea sq. in.	
Scrubbant:					
Control efficiency:	%pr	omv	mg/m³		
Describe method to monito	The state of the s			334 22	
3.5					
8 1911					
C Otherstone					
G. Other types:	11/2	30			(83)
Equipment description:					
Flow diagram of emissions s			Manufacturer	specifications/guarantee	
Manufacturer:		2		Serial No.:	
Gas flow rate: ds	cfm				W. W.
Control efficiency:	%pr	mv	mg/m³		100
Section 4: Emiss	ions data				
Emission Factor Basis (attacl		ee emission calculat	ons in permit application		
☐ Manufacturer ☐ Sour	ce test MDAQMD de	efault US	EPA AP-42		
Other (please specify): Emissions data:	ALL AND SOLE	SATE			
Pollutant Pre-control max	c. emissions	Units	Post contr	ol max. emissions	Units
NO _x	AYE III	3/2			
NMHC					
со					
PM10					
SO _x					
Toxic pollutants — Please in	clude a list of all toxic air	pollutants and	their emission ra	tes if known.	
Section 5: Opera	tion informati	on			
Fuel Consumption:	at max rated		hour SCF/h	our MMBtu/hr	
Typical load:	at max rated	i ivau Ligai/	nout SCP/III	Out ININIBLU/III	
Facility annual operation by	quarters (percent):		Expected opera	ting hours of equipment	
	an-Mar 25 % Apr-Jui	n	1 '	'day 7 Days/wk	52 Wk/yr
25 % Jul-Sep 25 %	Oct-Dec		Tota	l annual hours _8760	

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

*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	n contained herein is true and c	orrect.	
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of responsible official	S (20) VO Datelsigned
Phone: 760-372-2547		Email: sukumara@:	syminerals.com

Application submission instructions:

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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

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(\$172.00 for change of owner)

PLEASE TYPE OR PRINT



Section 1: Owner information

Section 1. Owner in	ioriiauon			
Permit to be issued to (company Searles Valley Minerals Operations,	•		b. Fede	ral tax ID #:
c. Mailing/billing address (for abo		tate and zin code:		
P.O.Box 367, Trona, CA 93592	ve company name, include tity, s	tate and zip code.		
d. Facility or business license name		linerals Operations, Inc.		
e. Facility Address — Location of e				Equip. coordinates (lat/long):
13200 Main St., Trona, CA 93562	quipment (ii same as for compai	ny, enter Same J.		equip. coordinates (lat/long).
f. Contact name:	Title:	Email address:		Phone:
Anoop Sukumaran	Environmental Manager	sukumara@svmin	erals.com	760-372-2547
General nature of business:				Company NAICS:
Sodium, Boron Products				212391
Type of Organization Individual owner Par	rtnership 🕜 Corporation	Utility 🔲 I	.ocal agen	cy State agency
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 per	mit:	For modification or char	nge of owi	ner:
New construction Modific	ation Change of owner	C012536	Current P	ermit Number
Do you claim Confidentiality of Da	ita? 🔽 No 🗖 Yes (attar	ch explanation: specify w	nich inforn	nation provided is confidential)
Section 3: Equipment Note: Each control unit A. Adsorption units:			A-G as	applicable
Flow diagram of emissions source	and control unit: included	Manufacturer specific	ations/gua	rantee: included
Manufacturer:	Model:	Serial	No.:	<u> </u>
Adsorbent: Activated charcoal:	type	Other: specify		
Adsorbate(s):		- 100 au 200	7	
Number of beds:		Weight of adsorbent p	er bed:	
Dimensions of bed: thickness:	surface area:			
Inlet temperature:	<u>°</u> F	Pressure drop across u	nit:	inches H ₂ O
Regeneration: Replacement	☐ Steam ☐ Other, specify: _			
Regeneration method:	wn 🔲 alternate use, specify: _		othe	er, specify:
Minimum control efficiency:	%ppmv	mg/m³		
Describe method to monitor contro	ol efficiency and breakthrough:			
	-For Distri	ct use only-	- 1	
Application number:	Invoice number:	Permit number:	i da	Company/facility number:

B. Afterburner units:					
Flow diagram of emissions source		included	Manufacturer :	specifications/guarantee:	included
Manufacturer:	Model:			Serial No.:	
Combustion chamber dimension		Cross section	onal area:	sq. in.	
Fuel: Inatural gas Inpropa	ne CARB diesel	other, sp	ecify:		
Number and rating of burners: _			Operating temp	perature of combustion ch	amber in °F:
Inlet temperature:	°F		Pressure drop a	cross unit:	inches H ₂ O
Gas flow rate: dsci	m	· · · · · · · · · · · · · · · · · · ·	I		
Catalyst used:, please describ					
Heat exchanger used: please	describe:		F-81100		
Minimum control efficiency:	%		m	g/m	
Describe method to monitor con	trol efficiency and bre	akthrough:		THE VENT	
		271			
C: Condenser units:					
Flow diagram of emissions source	and anatoni valte	- Indicated	Manufactures		
			Manufacturer	specifications/guarantee:	
Manufacturer:				Serial No.:	
Heat exchange area:ft ²		i)			
Coolant rate: units				other, specify:	
Gas flow rate: dscfm				Gas temp.: inlet	_ °F outlet °F
Minimum control efficiency:	%	ppmv	m	g/m³	
D. Electrostatic precipita	tor units:				
Flow diagram of emissions source		included	Manufacturer	specifications/guarantee:	lincluded
Manufacturer:		E 3 12 1/1	manadatara	Serial No.:	
Collecting electrode area:	ft ²	IF40		Scharto	
Gas flow rate: dscfm					
H24	1.65.	1.1			
Describe method to monitor con-	rol efficiency and bre	akthrough:			
E. Filter units					
Flow diagram of emissions source	and control unit:	included	Manufacturer sp	ecifications/guarantee:	included
Manufacturer: SCHENCK PROCESS	Model: 96S1	25		Serial No.:	
Filtering material:	- 3		Filtering area: 31		
Number and dimension of filters:			TATES AND THE		
		lse air 🔲 pu	ulse jet	r, specify:	
Gas flow rate: 1200 dscf					
Unit measured with a manometer		n T	Manufacturer's en	ecified pressure differentia	I range:inches H20
			mg/m³	coned pressure unierentia	rangemiches nzi
Motor size: 3 b					
	hp Fan size:	1.1 .	inches		
Describe method to monitor conf	roi emciency and bre	aktnrough:			

r. Scrubber units						
Flow diagram of emissions	source and co	ntrol unit:	included	Manufacturer s	pecifications/guarantee;	included
Manufacturer:		Model:			Serial No.:	
Type of scrubber:						
☐high energy, gas stream	pressure drop	:ir	nches H _s O			
packed: packing type			20	ng material heigh	it	
spray: number of nozzles					-	
other, specify: Flow type:concurrent	Countercu	urrent 🗖 c	rossflow			·
Scrubber dimensions: lengtl					ea so in	
Scrubbant:						
Control efficiency:					Y X X X	
Describe method to monito						
bescribe metriod to monito	r control cine	ency and bre	aktillougii.			
- 100						
G. Other types:		758				2
Equipment description:		196				74.
low diagram of emissions s	ource and co	ntrol unit:	included	Manufacturer	specifications/guarantee:	included
ton diagram of chilissions .		Model			Serial No.:	
		Model				
Manufacturer:		I Model				
Manufacturer:d: Gas flow rate:d: Control efficiency:	scfm %	ppr	mv			
Manufacturer: Gas flow rate: Control efficiency: Describe method to monito	scfm %% r control effici	ppr ency and bre	mv			
Manufacturer:	r control effici	pprency and bre	nv	mg/m³		
Manufacturer: Gas flow rate: Control efficiency: Describe method to monito Section 4: Emiss Emission Factor Basis (attact	r control effici	pprency and bre	nv akthrough: e emission cakulati	mg/m³		
Manufacturer: Gas flow rate:	ions dat h any source s	pprency and bree	e emission calculation	mg/m³ mg/m³ ons in permit application	1.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and bree	e emission calculation	mg/m³ mg/m³ ons in permit application	1.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and bree	e emission calculation	mg/m³ ions in permit application	1.	Units
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Section 4: Emiss Emission Factor Basis (attact Manufacturer Sour Other (please specify): Emissions data: Pollutant Pre-control ma	ions dat h any source s ce test	pprency and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Section 4: Emiss Emission Factor Basis (attact Manufacturer Sour Other (please specify): Emissions data: Pollutant Pre-control ma	ions dat h any source s ce test	pprency and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and breed and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test	pprency and breed and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Manufacturer: Gas flow rate:	ions dat h any source s	pprency and breed and bree	e emission calculati	mg/m³ ions in permit application	ı.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test _N k. emissions	pprency and bree	e emission calculati	mg/m³ ons in permit application EPA AP-42 Post contr	ol max. emissions	
Manufacturer: Gas flow rate: Control efficiency: Describe method to monito Section 4: Emiss Emission Factor Basis (attact Manufacturer Other (please specify): Emissions data: Pollutant Pre-control manufacture NOv NMHC CO PM10 SOv	ions dat h any source s ce test _N k. emissions	pprency and bree	e emission calculati	mg/m³ ons in permit application EPA AP-42 Post contr	ol max. emissions	
Manufacturer: Gas flow rate:	ions dat h any source s ce test N k. emissions	pprency and bree all toxic air p	e emission calculatifault US	mg/m³ ons in permit application EPA AP-42 Post contr	ol max. emissions	
Manufacturer: Gas flow rate:	ions dat h any source s ce test N k. emissions	pprency and bree all toxic air p	akthrough: e emission calculation fault US	mg/m³ ons in permit application EPA AP-42 Post contr	rol max. emissions tes if known.	
Manufacturer: Gas flow rate: Control efficiency: Describe method to monito Section 4: Emiss Emission Factor Basis (attact Manufacturer Other (please specify): Emissions data: Pollutant Pre-control ma NO, NMHC CO PM10 SO, Toxic pollutants — Please in Section 5: Opera Fuel Consumption:	ions dat h any source s ce test N k. emissions	pprency and bree ency and bree	akthrough: e emission calculation fault US	mg/m³ ons in permit application EPA AP-42 Post contr	rol max. emissions tes if known.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test N k. emissions	pprency and bree all toxic air pormatic at max rated	akthrough: e emission calculation fault US	mg/m³ lons in permit application EPA AP-42 Post contr their emission ra	rol max. emissions tes if known.	
Manufacturer: Gas flow rate:	ions dat h any source s ce test N k. emissions	pprency and bree ency and bree	e emission calculation fault US	mg/m³ ons in permit application EPA AP-42 Post contr their emission ra hour SCF/he Expected opera 24 Hrs/	tes if known.	Units

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

Section 7: Certification

I hereby certify that all informatio	n contained herein is true and o	orrect		
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of res	pensible official	S w LO Date signed
Phone: 760-372-2547		Email	sukumara@svmi	nerals com

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

Application for air pollution control equipment only

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Section 1: Owner information

Section 1: Owner into	rmation			
a. Permit to be issued to (company na	me):		b. Fede	ral tax ID #;
Searles Valley Minerals Operations, Inc.				
 c. Mailing/billing address (for above con P.O.Box 367, Trona, CA 93592 	ompany name) include city, s	tate and zip code:		
d. Facility or business license name (fo	r equipment location):	4 10		
281	Searles Valley N	Minerals Operations, In	ю.	
e. Facility Address — Location of equip 13200 Main St., Trona, CA 93562	oment (if same as for compa	ny, enter "Same").	3	Equip. coordinates (lat/long):
f. Contact name:	Title:	Email add	dress	Phone:
Anoop Sukumaran	Environmental Manager	sukumara(svminerals.com	760-372-2547
General nature of business: Sodium, Boron Products				Company NAICS: 212391
Type of Organization Individual owner Partner Federal agency	ship 🕜 Corporation	Utility	☐ Local agen	cy State agency
Section 2: Nature of a	pplication			Two two
Application is hereby made for the follows tollector for SUPO plant	owing equipment:			
Application is for what type of permit:		For modification	or change of owr	ner:
New construction Modificatio	n	C012537	Current P	ermit Number
Do you claim Confidentiality of Data?	☑ No ☐ Yes (atta	ch explanation: spe	cify which inform	nation provided is confidential)
Section 3: Equipment in Note: Each control unit request. A. Adsorption units: Flow diagram of emissions source and	uires a separate ap	plication		rantee: included
Manufacturer:	Model:		Serial No.:	
Adsorbent: Activated charcoal: type		Other: specify	A 31	- 100m
Adsorbate(s):	23,110 = 1,173			
Number of beds:		Weight of adsor	bent per bed:	ш п
Dimensions of bed: thickness:	surface area:		2 0 1	7530
Inlet temperature:	*F	Pressure drop ac	cross unit:	inches H ₁ O
Regeneration: Replacement S	team Other, specify: _			
Regeneration method: Shut down	alternate use, specify:		othe	r, specify:
Minimum control efficiency:	%ppmv	mg	/m³	
Describe method to monitor control eff	ficiency and breakthrough:			
	-For Distri	ict use only-		

					_
Flow diagram of emissions source and co		included	Manufacturer s	pecifications/guarantee:	
Manufacturer:	Model:]	Serial No.:	···
Combustion chamber dimensions: leng	th: in.		onal area: se	·	
	CARB diesel	other, sp	ecify:		
Number and rating of burners:			Operating temper	erature of combustion cha	amber in °F:
Inlet temperature:	°F		Pressure drop ac	ross unit:	inches H ₂ O
Gas flow rate: dscfm					
Catalyst used:, please describe:					
Heat exchanger used: 🔲 please describ	oe:	- 124 =			
Minimum control efficiency:	%	ppmv	mg,	/m³	
Describe method to monitor control effic	iency and br	eakthrough:		THE PARTY OF THE P	
				V	
C: Condenser units:					
Flow diagram of emissions source and co	ntrol unit:	Dincluded	Manufacturers	pecifications/guarantee:	Dincluded
Manufacturer:			(Wallandiactale)	Serial No.:	
Heat exchange area:ft²	inodei			Della No.	
Coolant rate: units 1	una Fluat	or Dair D	CARB diesel	other, specify:	- 20
Gas flow rate: dscfm Coola				Gas temp.: inlet	
bas now rate uscilli cools	179	et r u	utiet r	Gas temp met	_ F OULIEL F
		100	V Della Della		
			mg/	'm³	
Describe method to monitor control effic	iency and bro		mg,	'm³	
Describe method to monitor control effices	iency and bro				included
Describe method to monitor control effice D. Electrostatic precipitator un Tow diagram of emissions source and co	iency and bro its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control effice D. Electrostatic precipitator un Flow diagram of emissions source and co	iency and bro its: ontrol unit:	eakthrough:			
Describe method to monitor control efficiency: Describe method to monitor control efficiency: D. Electrostatic precipitator un Flow diagram of emissions source and communicaturer: Collecting electrode area: ft² Gas flow rate: dscfm	iency and bro its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator un Flow diagram of emissions source and communicaturer: Collecting electrode area: ft² Gas flow rate: dscfm	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator un Flow diagram of emissions source and company	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator unellow diagram of emissions source and control described by the source described by	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator unellow diagram of emissions source and control described by the source described by	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator unellow diagram of emissions source and control described by the source described by	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency D. Electrostatic precipitator un Flow diagram of emissions source and communication Manufacturer:	its: ontrol unit:	eakthrough:		pecifications/guarantee:	
Describe method to monitor control efficiency of the control of th	its: introl unit: Model:	eakthrough:	Manufacturer s	pecifications/guarantee: Serial No.:	
Describe method to monitor control efficiency of the control of th	its: introl unit: Model:	included	Manufacturer s	pecifications/guarantee: Serial No.:	
Describe method to monitor control efficiency of the control of th	its: Introl unit: Model:	eakthrough: included eakthrough:	Manufacturer s	pecifications/guarantee: Serial No.:	
Describe method to monitor control efficiency of the control of th	its: Introl unit: Model:	eakthrough: included eakthrough:	Manufacturer s Manufacturer spe	pecifications/guarantee: Serial No.:	
Describe method to monitor control efficiency D. Electrostatic precipitator un flow diagram of emissions source and communicaturer: Collecting electrode area:ft² Gas flow rate:ft² Describe method to monitor control efficiency E. Filter units flow diagram of emissions source and communicaturer: SCHENCK PROCESS iltering material: Jumber and dimension of filters:	its: Introl unit: Model: Model: Model: 965	eakthrough: included eakthrough:	Manufacturer s Manufacturer spe	pecifications/guarantee: Serial No.:	
D. Electrostatic precipitator un Flow diagram of emissions source and communication diagram of emissions source and communication electrode area:ft² Gas flow rate:ft² Gas flow rate:	its: Introl unit: Model: Model: Model: 965	eakthrough: included eakthrough:	Manufacturer s Manufacturer spe	pecifications/guarantee: Serial No.: cifications/guarantee: Serial No.:	
Describe method to monitor control efficiency D. Electrostatic precipitator unflow diagram of emissions source and confidency Manufacturer: Collecting electrode area:	its: Introl unit: Model: Idency and bree Introl unit: Model: 96S	eakthrough: included eakthrough:	Manufacturer spe Manufacturer spe Filtering area: 314 ulse jet other	pecifications/guarantee: Serial No.: cifications/guarantee: Serial No.:	Încluded
Describe method to monitor control efficiency of the precipitator under the precipitator un	its: Introl unit: Model: Introl unit: Model: Introl unit: Model: Introl unit: Intro	eakthrough: included eakthrough:	Manufacturer spe Manufacturer spe Filtering area: 314 ulse jet	pecifications/guarantee: Serial No.: cifications/guarantee: Serial No.:	Încluded
Describe method to monitor control efficiency: D. Electrostatic precipitator unless of the monitor control efficiency of the monitor control	its: Introl unit: Model: Introl unit: Model: Introl unit: Model: Introl unit: Intro	eakthrough: included eakthrough: included T25	Manufacturer spe Manufacturer spe Filtering area: 314 ulse jet other	pecifications/guarantee: Serial No.: cifications/guarantee: Serial No.:	Încluded

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

Section 7: Certification

I hereby certify that all information	n contained herein is true and c	orrect.		
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signed (read re	esponsible official	8 20 20 Date signed
Phone: 760-372-2547		Email:	sukumara@svmin	

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Application for air pollution control equipment only

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Section 1: Owner in	formation						
a. Permit to be issued to (company	a. Permit to be issued to (company name): b. Fed						
	Searles Valley Minerals Operations, Inc.						
c. Mailing/billing address (for above	ve company name) include city, s	state and zip code:					
P.O.Box 367, Trona, CA 93592	(6						
d. Facility or business license name	Searles Valley I	Minerals Operations, Inc.					
	e. Facility Address — Location of equipment (if same as for company, enter "Same"): Equip. coordinates (lat/long):						
13200 Main St., Trona, CA 93562	97						
f. Contact name:	Title: Environmental Manager	Email address:	Phone:				
Anoop Sukumaran General nature of business:	Environmental Manager	sukumara@svmine	erals.com 760-372-2547 Company NAICS:				
Sodium, Boron Products			212391				
Type of Organization							
	tnership	Utility 🔲 L	ocal agency				
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 per	mit:	For modification or char	ige of owner:				
■ New construction ✓ Modific	ation	C012538	Current Permit Number				
Do you claim Confidentiality of Da	ta? _ No _ Yes (atta	ch explanation; specify wh	nich information provided is confidential)				
Section 3: Equipmer Note: Each control unit			A-G as applicable				
A. Adsorption units:							
Flow diagram of emissions source a	and control unit: included	Manufacturer specific	ations/guarantee: []included				
Manufacturer:	Model:	Serial	No.:				
Adsorbent: Activated charcoal:	type	Other: specify					
Adsorbate(s):		1430-2					
Number of beds:		Weight of adsorbent p	er bed				
Dimensions of bed. thickness:	surface area:						
Inlet temperature:	<u> </u>	Pressure drop across u	nit:inches H ₂ O				
Regeneration: Replacement	Steam Other, specify: _						
Regeneration method: shut do	wn alternate use, specify:		other, specify:				
Minimum control efficiency:	%ppmv	mg/m³					
Describe method to monitor contro	ol efficiency and breakthrough:						
	-For Distr	ict use only-					
Application number:	Invoice number:	Permit number:	Company/facility number:				

B. Afterburner units:						
Flow diagram of emissions s		ontrol unit:	included	Manufacturer :	specifications/guarantee:	included
Manufacturer:		Model:			Serial No.:	
Combustion chamber dimer	nsions: lengt	th: in.	. Cross section	onal area: :	sq. in.	
Fuel: 🗖 natural gas 🗖 p	ropane 🗀	CAR8 diese	other, sp	pecify:		
Number and rating of burne	ers:			Operating temp	erature of combustion cha	amber in °F:
Inlet temperature:		°F		Pressure drop a	cross unit:	inches H ₂ O
Gas flow rate:	_dscfm					
Catalyst used:, please de	escribe:			,		
Heat exchanger used: p						
Minimum control efficiency:				M. III	g/m³	
Describe method to monitor	r control effic	iency and br	reakthrough:		TOWNS V	
			1			
Sec.						
C: Condenser units:						
Flow diagram of emissions s	ource and co	ntrol units	Disabudad	3 dans of a strong	specifications/guarantee:	Tincluded
		_		ivianulactuler	1	
Manufacturer:		Model			Serial No.:	
Heat exchange area:				Ticano did	— 10 10 10 10 10 10 10 10 10 10 10 10 10	MA
Coolant rate: units					other, specify:	
Gas flow rate: ds				outlet °F	Gas temp.: inlet	_ °F outlet °F
				mg	/m³	
	control effici	iency and br		mc	J/m³	
Describe method to monitor D. Electrostatic preci	r control effici	iency and br				included
Describe method to monitor D. Electrostatic precipes of the state of	r control effici pitator un ource and co	iency and br	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipation of emissions sometimes and the manufacturer:	pitator un	its:	reakthrough:			
Describe method to monitor D. Electrostatic precipe Flow diagram of emissions sometimes of the monitor of the	pitator uniource and course and c	its:	reakthrough:		specifications/guarantee:	
Flow diagram of emissions s Manufacturer: Collecting electrode area: ds Gas flow rate: ds	pitator un ource and co	its: ntrol unit:	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipe Flow diagram of emissions sometimes of the monitor of the	pitator un ource and co	its: ntrol unit:	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipe Flow diagram of emissions sometimes of the monitorial flow diagram of emissions sometimes. Manufacturer: Collecting electrode area: Gas flow rate:	pitator un ource and co	its: ntrol unit:	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipe Flow diagram of emissions sometimes of the monitorial flow diagram of emissions sometimes. Manufacturer: Collecting electrode area: Gas flow rate:	pitator un ource and co	its: ntrol unit:	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipe Flow diagram of emissions sometimes and the monitor of the	pitator un ource and co	its: ntrol unit:	reakthrough:		specifications/guarantee:	
Describe method to monitor D. Electrostatic precipation of emissions sometimes. Manufacturer: Collecting electrode area: Gas flow rate: Describe method to monitor E. Filter units	pitator un ource and co	its: entrol unit: Model:	included reakthrough:	Manufacturer	specifications/guarantee:	
Describe method to monitor D. Electrostatic precipation of emissions sometimes of emissions sometimes. Collecting electrode area:	pitator un ource and co ft ² cfm control effici	its: Introl unit: Model:	included included	Manufacturer	specifications/guarantee: Serial No.: Serial No.:	
Describe method to monitor D. Electrostatic precipitor Flow diagram of emissions some services of the control	pitator un ource and co ft ² cfm control effici	its: entrol unit: Model:	reakthrough: included reakthrough:	Manufacturer sp	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	
Describe method to monitor D. Electrostatic precipitor Flow diagram of emissions sometimes of the monitor Gas flow rate:	pitator un ource and co ft ² ocfm control effici	its: Introl unit: Model:	reakthrough: included reakthrough:	Manufacturer	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	
Describe method to monitor D. Electrostatic precipation of file and the monitor D. Electrostatic precipation of the monitor	pitator un ource and co ft² cfm control effici	its: Introl unit: Model: iency and braining	reakthrough: included reakthrough:	Manufacturer sp Filtering area: 615	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	
Describe method to monitor D. Electrostatic precipation of file and the monitor D. Electrostatic precipation of the monitor	pitator un ource and co ft² cfm control effici	its: Introl unit: Model: iency and braining	reakthrough: included reakthrough:	Manufacturer sp Filtering area: 615	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	
Describe method to monitor D. Electrostatic precipation of emissions some diagram of emissions of file cleaning method:	pitator un ource and co ft² cfm control effici	its: Introl unit: Model: iency and braining	reakthrough: included reakthrough:	Manufacturer sp Filtering area: 615	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	
Describe method to monitor D. Electrostatic precipation of emissions somethod describes method to monitor E. Filter units Flow diagram of emissions somethod describes method to monitor E. Filter units Flow diagram of emissions somethod describes method describes method to monitor E. Filter units Flow diagram of emissions somethod describes method describes method describes method describes method describes method. Cleaning method: shake Gas flow rate: 2200	pitator uniource and colore and colore and colore and colores and	its: Introl unit: Model: Idency and brown	reakthrough: included reakthrough:	Manufacturer sp Manufacturer sp Filtering area: 616	specifications/guarantee: Serial No.: ecifications/guarantee: Serial No.:	included
Describe method to monitor D. Electrostatic precipies of emissions some series of emissions som	pitator uniource and colore and colore and colore and colores and	its: Introl unit: Model: iency and bronder: Model:	reakthrough: included reakthrough:	Manufacturer sp Manufacturer sp Filtering area: 616	specifications/guarantee: Serial No.: Serial No.: Serial No.: Serial No.: Serial No.:	included
Describe method to monitor D. Electrostatic precipation of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units Flow diagram of emissions some method to monitor E. Filter units	pitator uniource and control efficient ource	its: Introl unit: Model: iency and bronder: Model:	reakthrough: included reakthrough:	Manufacturer sp Filtering area: 618 ulse jet othe	specifications/guarantee: Serial No.: Serial No.: Serial No.: Serial No.: Serial No.:	included

Flow diagram of emissions source and control unit:			***************************************	
	included	Manufacturer s	pecifications/guarantee:	
Manufacturer: Model:			Serial No.:	
ype of scrubber:				
high energy, gas stream pressure drop:	-			
packed: packing type packing size _	packi	ng material heigh	t	
spray: number of nozzles nozzle pres	sure F	PSIG		
other, specify:				
low type: concurrent countercurrent			···	
crubber dimensions: length in direction of gas flow			ea sq. in.	
Crubbant: Scrubbant flow rate				
Control efficiency:%p	pmv	mg/m ¹	0.50	
Describe method to monitor control efficiency and b	reakthrough:			\
			4	
G. Other types:				
quipment description:	15 M			
low diagram of emissions source and control unit:	Discluded	Manufacturar	specifications/guarantee	Tingle-day
Manufacturer: Model:				
as flow rate: dscfm			Serial No.:	
		70		
ontrol efficiency: %p	pmv	mg/m³		
Describe method to monitor control efficiency and b				
Section 4: Emissions data		ons in permit application.	-	
Section 4: Emissions data imission Factor Basis (attach any source specified): Manufacturer Source test MDAQMD of	iee emission calculati	EPA AP-42		
Section 4: Emissions data mission Factor Basis (attach any source specified): Source test MDAQMD of Other (please specify):	iee emission calculati	EPA AP-42		IV III
Section 4: Emissions data mission Factor Basis (attach any source specified): S Manufacturer □ Source test □ MDAQMD of Other (please specify): □ missions data: □	iee emission calculati	EPA AP-42	ol max. emissions	Units
Dection 4: Emissions data mission Factor Basis (attach any source specified): Manufacturer Source test MDAQMD of Other (please specify): missions data: ollutant Pre-control max. emissions	see emission calculationiefault □USI	EPA AP-42		Units
mission Factor Basis (attach any source specified): Source test ☐ MDAQMD of Other (please specify): missions data: ollutant Pre-control max. emissions	see emission calculationiefault □USI	EPA AP-42		Units
Dection 4: Emissions data mission Factor Basis (attach any source specified): Source test	see emission calculationiefault □USI	EPA AP-42		Units
Dection 4: Emissions data mission Factor Basis (attach any source specified): Source test	see emission calculationiefault □USI	EPA AP-42		Units
Manufacturer Source test MDAQMD of Other (please specify): missions data: collutant Pre-control max. emissions IMHC	see emission calculationiefault □USI	EPA AP-42		Units
Section 4: Emissions data imission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): imissions data: follutant Pre-control max. emissions NOx MMHC M10	see emission calculationiefault □USI	EPA AP-42		Units
Section 4: Emissions data Imission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): Imissions data: Pollutant Pre-control max. emissions NOx NMHC ON	iee emission calculati lefault USI Units	Post contro	ol max. emissions	Units
Section 4: Emissions data Emission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): Emissions data: Pollutant Pre-control max. emissions NOx NMHC OCO PM ₁₀ GOx	iee emission calculati lefault USI Units	Post contro	ol max. emissions	Units
Section 4: Emissions data Emission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): Emissions data: Pollutant Pre-control max. emissions NOx NMHC OPM10 ON	iee emission calculati lefault USI Units	Post contro	ol max. emissions	Units
Section 4: Emissions data Imission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): Imissions data: Pollutant Pre-control max. emissions NOx NMHC Ox Ox Ox Ox Ox Ox Ox Ox Ox O	isee emission calculation in the control of the con	Post contro	ol max. emissions	Units
Section 4: Emissions data mission Factor Basis (attach any source specified): Source test MDAQMD of Other (please specify): missions data: Pollutant Pre-control max. emissions NOx NMHC CO PM ₁₀ Sox foxic pollutants — Please include a list of all toxic air	ee emission calculation lefault USI Units pollutants and	Post contro	ol max. emissions	Units
Section 4: Emissions data Emission Factor Basis (attach any source specified): Source test	ee emission calculation lefault USI Units pollutants and	Post contro	ol max. emissions	Units
Section 4: Emissions data Emission Factor Basis (attach any source specified): S Manufacturer Source test MDAQMD of Other (please specify): Emissions data: Pollutant Pre-control max. emissions NOx NMHC CO PM ₁₀ Foxic pollutants — Please include a list of all toxic air Section 5: Operation informational consumption: Total Consumption: Tacility annual operation by quarters (percent):	pollutants and	Post control their emission rat hour SCF/ho	es if known. Dur MMBtu/hr ing hours of equipment	
Section 4: Emissions data Emission Factor Basis (attach any source specified): Source test	pollutants and	Post control Post control their emission rat hour SCF/ho Expected operat 4 Hrs/4	es if known.	

Distance (feet) and direction to the property line of closest:	residence	business	school
Name of closest school (K-12)			
If the proposed equipment operates within 1,000 feet of a school site	and operation result	ts in the emission of hazardou	ıs air
pollutants, a public notice will be required at the expense of the appli	icant (CH&S §42301.	6)	

*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	n contained herein is true and o	correct.	R	
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of es	portsible official	Date signed
Phone: 760-372-2547		Email	sukumara@svmi	nerals.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 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.

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

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PLEASE TYPE OR PRINT



Section 1: Owner into	ormation				
a. Permit to be issued to (company	name):		b. Federal tax ID #:		
Searles Valley Minerals Operations, In					
c. Mailing/billing address (for above P.O.Box 367, Trona, CA 93592	company name) include city, s	tate and zip code:			
d. Facility or business license name	for equipment location):				
	Searles Valley N	linerals Operations, Inc.			
e. Facility Address — Location of eq 13200 Main St., Trona, CA 93562	uipment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long):		
f. Contact name:	Title:	Email address:	Phone:		
Anoop Sukumaran	Environmental Manager	sukumara@svmine			
General nature of business:	11022		Company NAICS:		
Sodium, Boron Products			212391		
Type of Organization	U. C.				
☐ Individual owner ☐ Partr	ership	Utility L	ocal agency		
Federal agency					
Section 2: Nature of	application				
Application is hereby made for the f	ollowing equipment:				
Oust collector for SUPO plant					
Application is for what type of perm	it:	For modification or char	ge of owner;		
■ New construction	ion Change of owner	C012539			
Do you claim Confidentiality of Data	? 🗾 No 🔲 Yes (attac	rh explanation: specify wh	ich information provided is confidential)		
Section 3: Equipment Note: Each control unit real. A. Adsorption units:			4-0 us upplicable		
Flow diagram of emissions source an	d control unit:included	Manufacturer specifica	ations/guarantee: included		
Manufacturer:	Model:	Serial	No.:		
Adsorbent: Activated charcoal: ty	pe F	Other: specify			
Adsorbate(s):		To the respecting			
Number of beds:		Weight of adsorbent pe	ar had:		
Dimensions of bed: thickness:	surface area:	Treight of ausorbent pr	oed.		
Inlet temperature:	°¢	Pressure drop across un	nit inches U.O.		
Regeneration: Replacement	· · · · · · · · · · · · · · · · · · ·	Pressure drop across di	nit: inches H ₂ O		
Regeneration method: shut dow	alternate use, specify:		other, specify:		
Minimum control efficiency:	%ppmv	mg/m³			
Describe method to monitor control	efficiency and breakthrough:		Ø.		
	-For Distri	ct use only-			
Application number:	voice number:	Permit number:	Company/facility number:		

Flow diagram of emissions source and control unit: Included Manufacturer: Model: Model: Combustion chamber dimensions: length: in. Cross secti	Manufacturer specifications/guarantee: included
	Serial No.:
	onal area: sq. in. pecify:
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: , please describe:	
Heat exchanger used:	100 100
Minimum control efficiency: %ppmv	mg/m³
Describe method to monitor control efficiency and breakthrough:	The state of the s
C: Condenser units:	
Flow diagram of emissions source and control unit: included	Manufacturer specifications/guarantee: included
Manufacturer: Model:	Serial No.:
Heat exchange area: ft²	10 V-
	CARB diesel other, specify:
	outlet °F Gas temp.: inlet °F outlet °F
Minimum control efficiency:%ppmv	
	811
D. Electrostatic precipitator units:	
D. Electrostatic precipitator units:	Manufacturer specifications/guarantee: included
Flow diagram of emissions source and control unit: included	Manufacturer specifications/guarantee: ☐ included Serial No.:
Flow diagram of emissions source and control unit: included	
Flow diagram of emissions source and control unit: included Manufacturer: Model:	
Flow diagram of emissions source and control unit: included Manufacturer: Model: Collecting electrode area: ft²	
Flow diagram of emissions source and control unit: included Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm	
Flow diagram of emissions source and control unit:included	
Flow diagram of emissions source and control unit:included	Serial No.:
Flow diagram of emissions source and control unit:included Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthrough: E. Filter units Flow diagram of emissions source and control unit:included	Serial No.: Manufacturer specifications/guarantee: included
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee: ☐included Serial No.:
Flow diagram of emissions source and control unit:included	Serial No.: Manufacturer specifications/guarantee: included
How diagram of emissions source and control unit:included Manufacturer: Model: Collecting electrode area: ft² Gas flow rate: dscfm Describe method to monitor control efficiency and breakthrough: E. Filter units Flow diagram of emissions source and control unit:included Manufacturer: Vortex Model: VFS-25-A-A Filtering material: Multiple and dimension of filters:	Manufacturer specifications/guarantee:included Serial No.:
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee: ☐included Serial No.:
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee:lincluded Serial No.: Filtering area: 232 ulse jet other, specify:
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee:included Serial No.:
Flow diagram of emissions source and control unit:included	Manufacturer specifications/guarantee:lincluded Serial No.: Filtering area:232 ulse jet other, specify:

Flow diagram of emissions source and control unit:includes			
	ded Manufacturer s	oecifications/guarantee:	included
Manufacturer: Model:		Serial No.:	
Type of scrubber:		· · · · · · · · · · · · · · · · · · ·	
high energy, gas stream pressure drop: inches H	o		
packed: packing type packing size		t	
spray: number of nozzles nozzle pressure			
other, specify:			
Flow type: Concurrent Countercurrent Crossflow	<u> </u>		
Scrubber dimensions: length in direction of gas flow	***	ea so in	
Scrubbant: Scrubbant flow rate:		34. 111.	
Control efficiency: %ppmv			
Describe method to monitor control efficiency and breakthrou			
Describe method to monitor control emclency and breakthrou	gn.		
G. Other types:			
Equipment description:			H ² DLL1
Flow diagram of emissions source and control unit: 🔲 include	ded Manufacturer	specifications/guarantee	included
Manufacturer: Model:	N=	Serial No.:	
Gas flow rate: dscfm			
Control efficiency: %ppmv	ma/m³		
		20.75	
Describe method to monitor control efficiency and breakthrou	gn:		
. X			
Section 4: Emissions data			
Emission Factor Basis (attach any source specified): See emission of	calculations in permit application		
Manufacturer Source test TMDAOMD default			
■ Manufacturer			
Manufacturer			
Other (please specify):		ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units			Units
Other (please specify): Emissions data:			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO			Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 6 SOx	Post contr	ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO	Post contr	ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM SOx Toxic pollutants — Please include a list of all toxic air pollutant:	Post contr	ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 6 SOx	Post contr	ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 0 SOx Toxic pollutants — Please include a list of all toxic air pollutant: Section 5: Operation information Fuel Consumption: at max rated load	Post contr	ol max. emissions	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 10 SOx Toxic pollutants — Please include a list of all toxic air pollutant: Section 5: Operation information Fuel Consumption:	Post control s and their emission ra	ol max. emissions es if known.	Units
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 10 SOx Toxic pollutants — Please include a list of all toxic air pollutant: Section 5: Operation information Fuel Consumption: at max rated load Typical load: Facility annual operation by quarters (percent):	Post contr	ol max. emissions ees if known. bur MMBtu/hr ring hours of equipment	
Other (please specify): Emissions data: Pollutant Pre-control max. emissions Units NOx NMHC CO PM 10 SOx Toxic pollutants — Please include a list of all toxic air pollutant: Section 5: Operation information Fuel Consumption:	Post contr	ol max. emissions es if known.	

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

*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.

Secti	on	7:	Cer	tifi	cat	ion

I hereby certify that all informatio	n contained herein is true and c	orrect.		
Anoop Sukumaran Name of responsible official	Environmental Manager Official title	Signature of re-	sponsible official	S Col 70
Phone: 760-372-2547		Email:	sukumara@svm	inerals.com

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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

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Application number:

(\$172.00 for change of owner) PLEASE TYPE OR PRINT



Company/facility number:

Section 1: Owner infor	mation		
a. Permit to be issued to (company nam	b. Federal tax ID #:		
Searles Valley Minerals Operations, Inc.			
c. Mailing/billing address (for above cor P.O.Box 367, Trona, CA 93592	npany name) include city, st	ate and zip code:	
d. Facility or business license name (for		inerals Operations, Inc.	W. W.
e. Facility Address — Location of equipm			Equip. coordinates (lat/long):
13200 Main St., Trona, CA 93562	230	y, anter some y.	equip. cool directs (latylong).
f. Contact name:	Title:	Email address:	Phone:
Anoop Sukumaran	Environmental Manager	sukumara@svmineral	s.com 760-372-2547
General nature of business:			Company NAICS:
Sodium, Boron Products			212391
Type of Organization Individual owner Partnersh Federal agency	nip	Utility Loc	al agency State agency
Section 2: Nature of ap	plication		
Application is hereby made for the follo			
Dust collector for SUPO plant			
Application is for what type of permit:		For modification or change	of owner:
■ New construction ✓ Modification	☐ Change of owner	C012950 Cu	rrent Permit Number
Do you claim Confidentiality of Data?	NoYes (attac	h explanation; specify which	n information provided is confidential)
Section 3: Equipment in Note: Each control unit requ			G as applicable
A. Adsorption units:			
Flow diagram of emissions source and co	ontrol unit: included	Manufacturer specification	ons/guarantee: included
Manufacturer:	Model:	Serial No	0.
Adsorbent: Activated charcoal: type		Other: specify	
Adsorbate(s):			
Number of beds:		Weight of adsorbent per l	bed:
Dimensions of bed: thickness:	surface area:		
Inlet temperature:	°F	Pressure drop across unit	inches H ₂ O
Regeneration: Replacement Ste	eam Dother, specify:		
Regeneration method: Shut down	alternate use, specify: _		other, specify:
Minimum control efficiency:	ppmv	mg/m³	
Describe method to monitor control effic	iency and breakthrough:		
			

-For District use only-

Permit number:

Invoice number:

B. Afterburner units:					
Flow diagram of emissions source and co	ontrol unit:	included	Manufacturer :	specifications/guarantee:	included
Manufacturer:	Model:			Serial No.:	
Combustion chamber dimensions: leng	th: in.	Cross section	onal area: :		
Fuel: natural gas propane	CARB diesel				
Number and rating of burners:			Operating temp	perature of combustion ch	amber in °F:
Inlet temperature:	*F		Pressure drop a	cross unit:	inches H ₂ O
Gas flow rate: dscfm					2
Catalyst used: , please describe:					
Heat exchanger used: , please descril	oe:				30.000
Minimum control efficiency:	%	ppmv	mc	g/m³	De la companya de la
Describe method to monitor control efficiency	iency and bre	eakthrough:	915	2000000	
		5			
11 (100.7%)	77				
C: Condenser units:					
Flow diagram of emissions source and co	atral mate	included	Manufactura		Tto stord at
			Mariulacturer	specifications/guarantee:	
Manufacturer:	Model:			Serial No.:	
Heat exchange area:ft²		·		=	
Coolant rate: units				other, specify:	
Gas flow rate: dscfm Cool	178			Gas temp.: inlet	°F outlet °F
Minimum control efficiency:	%	ppmv	mc	J/m³	
D. Electrostatic precipitator un	ite.				
Flow diagram of emissions source and co		included	Manufacturer	specifications/guarantee:	Dincluded
Manufacturer:			Widitaloctalici	Serial No.:	
Collecting electrode area:ft²	i viodei.	1899-1		Serial 140	
Gas flow rate: dscfm	_				
Describe method to monitor control effic	iency and bre	eakthrough:			
E. Filter units					
Flow diagram of emissions source and co	ntrol unit:	included	Manufacturer sp	ecifications/quarantee:	included
Manufacturer: SCHENCK PROCESS	Model: 96S	Γ49	<u> </u>	Serial No.:	
Filtering material:	12/18/201		Filtering area: 615		
Number and dimension of filters:		200			
Cleaning method: Shaker Prevers	se air 🔲 nu	ılse air 🔲 pu	ulse jet 🔲 othe	r, specify:	
Gas flow rate: 1900 dscfm	п про	<u>E</u> pt	noc jet <u>En</u> oaie	·, specif,	
Unit measured with a manometer gauge	ves 🗖	,,, T	Manufactueor's en	ecified pressure differentia	d range — Jacher U2
Control efficiency: %				ecineu pressure umerentia	ıl range:inches H2
	ppı	11V	mg/m³		
1 10 11 11 11 11 11 11 11 11 11 11 11 11	an size:	1.0 :	inches	•	
Describe method to monitor control effic	iency and bre	akthrough:			

F. Scrubber units					
Flow diagram of emissions source and control unit: include	d Manufacturer spe	ecifications/guarantee:	included		
Manufacturer: Model:		Serial No.:			
Type of scrubber:					
□high energy, gas stream pressure drop: inches H₂O					
packed: packing type packing size pa	cking material height				
spray: number of nozzles nozzle pressure	_ PSIG				
Other, specify:					
Flow type: Concurrent Countercurrent Crossflow		****			
Scrubber dimensions: length in direction of gas flow in	. cross sectional area	sq. in.	· · · · · · · · · · · · · · · · · · ·		
Scrubbant: Scrubbant flow rate:	dscfm				
Control efficiency: %ppmv	mg/m³	- CONTRACTOR OF THE PARTY OF TH			
Describe method to monitor control efficiency and breakthrough	:	4-6-0			
		EI - No	2		
			14.5		
G. Other types:					
Equipment description:			300		
Flow diagram of emissions source and control unit: include	d Manufacturer s	pecifications/guarantee	· Dinchuded		
Manufacturer: Model:		·			
Gas flow rate: dscfm		Serial No.:			
Control efficiency:					
Section 4: Emissions data					
Emission Factor Basis (attach any source specified): See emission calc	ulations in permit application				
	USEPA AP-42				
Emissions data:					
Pollutant Pre-control max. emissions Units	Post control	l max. emissions	Units		
NOx					
AIAAIIC					
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 loadgal/hourSCF/hourMMBtu/hr					
Typical load:	Jayrioui3Cr/not	" INMOTOLIA			
Facility annual operation by quarters (percent):	Expected operating	ng hours of equipment			
Uniform OR 25 % Jan-Mar 25 % Apr-Jun	_24 Hrs/da	ay 7 Days/wk	52 Wk/yr		
25 % Jul-Sep 25 % Oct-Dec	Total a	annual hours _8760			

Distance (feet) and direction to the property line of closest:	residence	business	school
Name of closest school (K-12)			
If the proposed equipment operates within 1,000 feet of a scho	ool site and operation res	ults in the emission of hazardous a	air
pollutants, a public notice will be required at the expense of the	he applicant (CH&S §423(01.6)	

*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		8 20/20 Date signed	
Phone: 760-372-2547		Email:	sukumara@svm	inerals.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.



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

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

EQUIPMENT LOCATION (Fac.#2)

SVM - Trona Plant 13200 Main Street Trona, CA 93562

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

Brad Poiriez

Air Pollution Control Officer

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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]

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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

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

Brad Poiriez

Air Pollution Control Officer

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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]

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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

Brad Poiriez

Air Pollution Control Officer

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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]

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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

Brad Poiriez

Air Pollution Control Officer

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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]

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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

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

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: C012537 Issue Date: 12/17/2019

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@mdagmd.ca.gov.

[District Rules 404; 1303]

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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

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

Brad Poiriez

Air Pollution Control Officer

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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]

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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

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

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: C012539 Issue Date: 12/17/2019

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]

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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

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

Brad Poiriez

Air Pollution Control Officer

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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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SVM SUPO BH SOB 34