Federal Operating Permit

Permit No.: **900002**

Company: **Searles Valley Minerals, Inc.**

Facility: **Trona, Argus, and Westend**

Issue date: **March 14, 2017**

Expiration date: **March 14, 2022**

Mojave Desert Air Quality Management District

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for

Signed and issued by
Brad Poiriez
Executive Director/
Air Pollution Control Officer

PERMIT REVISIONS

March 25, 2020, Administrative Permit Modification described as follows;
SVM (Argus Plant) submitted an application to amend the supporting equipment in Part III(B)(4), District Permit B000538 for Soda ash production line No. 2. The equipment to be added is in wet service and has no PM10 emissions. The new addition to soda ash line No. 2 on one of the Bi Carb dryers will consist of an enhanced dewatering system including two centrifuges, feed and discharge screws, pre-dryer belt, and other components.

July 1, 2019, Significant Permit Modification described as follows;
The MDAQMD received application for permit condition modification for Boiler 22, with Title V significant permit modification. A preliminary determination/SLFB for modification to Title V permit was prepared for this permit revision, dated July 1, 2019. A summary of the modification to Boiler 22 is as follows;

SVM Boiler 22 is a natural gas fired boiler that currently has historical permit conditions limiting Boiler 22 operation to a cold standby status. Additionally, current permit conditions connect Boiler 22 operation to the non-operation of the ACE boiler (the ACE boiler has been permanently shut down), as well as, to non-operation of SVM Boiler 25 and 26. Boiler 22 operating status is being changed from cold standby to prime operations. Updated Permit conditions are stipulated in Part III. A. 41.

The comment period on the July 1, 2019 proposed Significant Permit Modification (Boiler 22 modification) ended with no comments received. The proposed Title V updates are therefore finalized and included in this modification of SVM Title V Permit, effective September 17, 2019.

Changes by C. Anderson

April 9, 2018, Minor Permit Modification described as follows;
The Mojave Desert Air Quality Management District (MDAQMD or District) received an application on October 16, 2017 for review of a proposed revision to the recently permitted (not yet constructed) Potassium Sulfate (Supo) Process Facility. The Supo process will allow SVM to produce potassium sulfate, a crop nutrient. The proposed revision includes the following proposed modifications which reflect changes based on final plant engineering review:

- Reconfiguration of Supo material conveying system
- Updates to air pollution control device specifications
- Addition of one new air pollution control device

The Supo process updates are proposed for inclusion in SVM FOP as a minor modification. Operating conditions and equipment specifications affected are iterated in Part III.A. 54 thru 64. The proposed updates are addressed the Preliminary Determination/Decision for Modification to SVM FOP dated February 20, 2018. There were no comments received on the proposed changes, therefore the PDOC serves as the Districts Final DOC.

Additionally, minor formatting updates were made to improve program consistency.

TABLE OF CONTENTS

		Page
	Permit Revisions	2
Part I	Introductory Information	I-4
Part II	Applicable Requirements and Emissions Limitations	II-9
Part III	Monitoring, Recordkeeping, Reporting and Testing Requirements	III-32
Part IV	Standard Federal Operating Permit Conditions	IV-174
Part V	Operational Flexibility Provisions	V-178
Part VI	Conventions and Abbreviations	VI-180
Appendix A	History of Permit Revisions	A-182
Appendix B	Compliance Assurance Monitoring	B-186
Appendix C	MDAQMD SIP Table	C-197

PART I
INTRODUCTORY INFORMATION

FACILITY IDENTIFYING INFORMATION:

Owner/Company Name:	SEARLES VALLEY MINERALS OPERATIONS, INC.
Owner Mailing Address:	SEARLES VALLEY MINERALS OPERATIONS, INC. P.O. Box 367 Trona, CA 93592-0367
Facility Names:	TRONA, ARGUS AND WESTEND (FACILITIES)
Facility Location:	13200 Main Street Trona, CA 93562
Mailing Address:	SEARLES VALLEY MINERALS OPERATIONS, INC. P.O. Box 367 Trona, CA 93592-0367

MDAQMD Federal Operating Permit Number: 90002

MDAQMD Company Number: 0090

MDAQMD Facility Number: 0002

Responsible Official:	Mr. Burnell H. Blanchard
Title:	Vice President
Phone Number:	760-373-2306
Facility "Site" Contacts:	Mr. Anoop Sukumaran
Title:	Senior Environmental Engineer
Phone Number:	760-382-2430
Facility "Off Site" Contacts:	none
Nature of Business:	Sodium and Boron Minerals Processing Facility
SIC Code:	1474
Facility Location:	UTM – 466E/3957N

DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 90002) for SVM OPERATIONS, INC. (SVM), TRONA, ARGUS, and WESTEND – Plants/Facilities. SVM is a Solution Mining and Chemicals Processing Facility located at 13200 Main Street, Trona, California 93562.

A. EQUIPMENT DESCRIPTION: TRONA PLANT:

OPERATING PERMITS - TRONA

Operating Equipment	Permit To Operate	Pollution Control Equipment	Permit To Operate
Pyrobor Furnace/Calciner #2	B000448	ESP	C002487
Pyrobor Furnace/Calciner #3	B000449	ESP	C002487
Pyrobor Milling/Screening	B000471	Baghouse	C000513
Pyrobor Storage Silos	T003968	Baghouse	C000489
Pyrobor Bulk Loadout	B000467	Baghouse	C000509
Borax Dryer #1	B000452	Scrubber	C000546
Borax Dryer #2	B000453	Scrubber	C000546
Borax Screening	B000490	Baghouse	C000488
Borax Bulk Loadout	B000466	Baghouse	C000508
		Baghouse	C000518
Boric Acid Dryer	B000480	Scrubber	C000516
Boric Acid Dryer Conveyor Room		Baghouse	C001978
Boric Acid Transfer/Storage	B000480	Baghouse	C001761
		Baghouse	C001685
Boric Acid Loadout	B001760	Baghouse	C001761
Boric Acid Storage Silo	T002133	Baghouse	C001761
Carbon Regeneration	B001757	N/A	
LLX Basin	B001916	CRUD	C002465
P-20 Manufacturing	B001758	Scrubber	C001759
Boric Oxide Plant	B003343	Scrubber	C003344
Mobile Transloading Conveyor	B003430	N/A	
Mobile Transloading Conveyor	B004762	Baghouse	N/A
Consolidated Packaging Plant	B003655	Baghouse	C003656
Soda Ash Storage Area	T003427	Baghouse	C003428
Boiler #22	M000483	N/A	
Gasoline Dispensing Facility (Trona)	N002725	Vapor Recovery	
Gasoline Dispensing Facility (Lk Gar)	N002235	Vapor Recovery	
Waste Oil Tank (Lk Gar)	T002236	N/A	

Paint Spray Gun, 68185	P005350	N/A	
Paint Spray Gun, 68881	P005206	N/A	
Diesel IC Engine, EmerStandbyICE	E003522	N/A	
Diesel Emergency Fire Water Pump (S2906)	E004553	N/A	
Diesel Compressor, Util (K0639)	B004554	N/A	
Diesel Compressor, Lake (K0640)	B007852	N/A	
Diesel Concrete Pump, (P6072)	B009161	N/A	
Salt Crushing and Loading	B008672	N/A	
Salt Crushing Equipment	B003955	N/A	
Diesel Emergency Water Pump (S3047)	E009159		
Gasoline Concrete Pump (P6103)	B009160		
Diesel Emergency Generator (K0652)	E009163		
Supo Dryer	B012530	Baghouse	C012532, and C012950
Supo Transfer and Storage Silos	B012531	Baghouse	C012534, C012535, C012950, and C012536
Supo Bulk Loadout Facility	B012533	Baghouse	C012537, C012538, and C012539

B. EQUIPMENT DESCRIPTION: ARGUS PLANT:

OPERATING PERMITS - ARGUS

Operating Equipment	Permit To Operate	Pollution Control Equipment	Permit To Operate
Bicarbonate Crystallizer #1	B000534	N/A	
Bicarbonate Crystallizer #3	B000535	N/A	
Bleacher Feed Bin #1	B000537	Baghouse	C000533
Bleacher Feed Bin #2	B000538	Baghouse	C000539
Bleacher Feed Bin #3	B000547	Baghouse	C000548
Bleacher #1	B000537	ESP	C000544
Bleacher #2	B000538	ESP	C000544
Bleacher #3	B000547	ESP	C000544
Monohydrate Crystallizer #1	B000537	Scrubber	C000553
Monohydrate Crystallizer #2	B000538	Scrubber	C000556
Monohydrate Crystallizer #3	B000547	Scrubber	C000552
Monohydrate Dryer #1	B000537	Scrubber	C000527
Bucket Elevator		Baghouse	C003533
Monohydrate Dryer #2	B000538	Scrubber	C000545
Monohydrate Dryer #3	B000547	Scrubber	C000549
Bucket Elevator		Baghouse	C003534
Screening Plant, common to lines 1, 2 and 3	B000537	Baghouse	C000532
Bicarbonate Dryer No. 1	B003665	N/A	

(Fluidized Bed)	Transfer #1 (Collecting Belt Tail Baghouse)	Baghouse	C003668
	Transfer #2 (West Transfer Baghouse)	Baghouse	C003669
	Transfer #3 (South Bin Belt Baghouse)	Baghouse	C003670
	(Truck Loadout)	Baghouse	C003667
Bicarbonate Dryer No. 2	B004540	N/A	
(Fluidized Bed)	Transfer #1 (North Collecting Belt Baghouse)	Baghouse	C004542
	Transfer #2 (#1 Belt Tail Baghouse)	Baghouse	C004543
	Transfer #3 (#1 Belt Head Baghouse)	Baghouse	C004544
Monohydrate Dryer No. 1	B003672	Baghouse	C003673
(Fluidized Bed)	Transfer #1 (South Collecting Belt Baghouse)	Baghouse	C003675
	Transfer #2 (West Transfer Belt Baghouse)	Baghouse	C003676
	Transfer #3 (South Surge Bin Belt Baghouse)	Baghouse	C003677
MEA System	B000551	Demister	
A-Frame Storage	T000528	Baghouse	C000529
Soda Ash Truck Loadout/ Surge Bin	B000530	Baghouse	C000543
Soda Ash Railcar Loadout, East Blue	B000128	Baghouse	C000126
Soda Ash Railcar Loadout, East Gray	B000128	Baghouse	C002355
Soda Ash Railcar Loadout, West Blue	B000128	Baghouse	C000127
Soda Ash Railcar Loadout, West Gray	B000128	Baghouse	C002354
Boiler #25	B000555	ESP	C000557
		Scrubber	C000558
Boiler #26	B000554	ESP	C000559
		Scrubber	C000561
Cooling Tower	B001920	Drift Eliminator	
Coal Stockout System	B000519	Baghouse	C002124
Coal Emergency Stockout and Reclaim System	B000520	Water/Chem. Seal	
Coal Reclaim System	B000521	Baghouse	C002124
		Baghouse	C002125
Refined Coal Treatment System	B011272	Baghouse	C002125
Fly Ash Loadout and Disposal	B000541	Baghouse	C000540
Fly Ash Loadout Gas Dispensing Facility	N002727	Vapor Recovery	
Portable Sandblaster, Clemco	A000522	N/A	
Portable Sandblaster, Kelco	A000523	N/A	
Diesel Fire Pump (S4038)	E004550	N/A	
Diesel Compressor, Paint (K0627)	B005124	N/A	

C. <u>EQUIPMENT DESCRIPTION: WESTEND PLANT:</u>

OPERATING PERMITS – WESTEND

Operating Equipment	Permit To Operate	Pollution Control Equipment	Permit to Operate
Sulfate Dryer #1	B000221	Scrubber	C000240
Sulfate Dryer #2	B002253	Scrubber	C000354
Sulfate Production Screening	B000221	Baghouse	C004431
Borax Dryer	B000228	Scrubber	C000241
Borax Conveyors	B000228	Baghouse	C000353
Borax Production/Silos	B000228	Baghouse	C000348
Borax Bulk Loadout	B000228	(east) Baghouse	C000347
		(west)Baghouse	C000357
Sulfate Shipping Screening	B001764	Baghouse	C001765
Sulfate Railcar/Truck Loadout	B001764	Baghouse	C000341
Boiler #5	B009992	N/A	
Sulfate Cooling Tower #1	B005291	Drift Eliminator	
Sulfate Cooling Tower #2	B005188	Drift Eliminator	
Sulfate Cooling Tower #3	B005292	Drift Eliminator	
Sulfate Cooling Tower #4	B005212	Drift Eliminator	
Sulfate Cooling Tower #5	B005213	Drift Eliminator	
Sulfate Cooling Tower #6	B005211	Drift Eliminator	
Borax Cooling Tower	B001926	Drift Eliminator	
Gasoline Dispensing Facility	N002726	Vapor Recovery	
Mobile Transloading Conveyor	B005205	N/A	
Mobile Transloading Conveyor	B005224	N/A	
Mobile Transloading Conveyor	B003707	Baghouse	N/A
Paint Spray Gun, 66438	P004050	N/A	
Paint Spray Gun, 74674	P004051	N/A	
Waste Oil Tank	T009101	N/A	

D. EQUIPMENT DESCRIPTION: RAILROAD:

OPERATING PERMITS - RAILROAD

Operating Equipment	Permit To Operate	Pollution Control Equipment	Permit to Operate
Gasoline Dispensing Facility	N002230	Vapor Recovery	
Sand Loadout/Storage	B003883	Baghouse	C003884
Waste Oil Tank, 5000 gal	T003953	N/A	
Waste Oil Tank, 1000 gal	T003952	N/A	

PART II
FACILITYWIDE APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

A. REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:

1. A permit is required to operate this facility.
[Rule 203 - *Permit to Operate*]

2. The equipment at this facility shall not be operated contrary to the conditions specified in the District Permit to Operate.
[Rule 203 - *Permit to Operate*]

3. The Air Pollution Control Officer (APCO) may impose written conditions on any permit.
[Rule 204 - *Permit Conditions*]

4. Commencing work or operation under a permit shall be deemed acceptance of all the conditions so specified.
[Rule 204 - *Permit Conditions*]

5. Posting of the Permit to Operate is required on or near the equipment or as otherwise approved by the Air Pollution Control Officer (APCO) / District.
[Rule 206 - *Posting of Permit to Operate*]

6. Owner/Operator shall not willfully deface, alter, forge, or falsify any permit issued under District rules.
[Rule 207 - *Altering or Falsifying of Permit*]

7. Permits are not transferable.
[Rule 209 - *Transfer and Voiding of Permit*]

8. The Air Pollution Control Officer (APCO) may require the Owner/Operator to provide and maintain such facilities as are necessary for sampling and testing.
[Rule 217 - *Provision for Sampling And Testing Facilities*]

9. The equipment at this facility shall not require a District permit or be listed on the Title V permit if such equipment is listed in Rule 219 and meets the applicable criteria contained in Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[SIP Pending: Rule 219 - *Equipment Not Requiring a Written Permit*]

10. The Owner/Operator of this facility shall obtain a Federal Operating Permit for operation of this facility.
[Rule 221 - *Federal Operating Permit Requirement*]

11. Owner/Operator shall pay all applicable MDAQMD permit fees.
[Rule 301 - *Permit Fees*]

12. Owner/Operator shall pay all applicable MDAQMD Title V Permit fees.
[Rule 312 - *Fees for Federal Operating Permits*]

13. Stack and point source visible emissions from this facility, of any air contaminant (including smoke) into the atmosphere, shall not equal or exceed Ringelmann No. 1 for a period or periods aggregating more than three minutes in any one hour:

(a) While any unit is fired on Public Utilities Commission (PUC) grade natural gas, Periodic Monitoring for combustion equipment is not required to validate compliance with the Rule 401 Visible Emissions limit. However, the Owner/Operator shall comply with the recordkeeping requirements stipulated elsewhere in this permit regarding the logging of fuel type, amount, and suppliers' certification information.

(b) While any unit is fired on diesel fuel, Periodic Monitoring, in addition to required recordkeeping, <u>is</u> required to validate compliance with Rule 401 Visible Emissions limit as indicated below:

(i). Reciprocating engines equal or greater than 1000 horsepower, firing on only diesel with no restrictions on operation, a visible emissions inspection is required every three (3) months or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3-month time frame.

(ii). Diesel Standby and emergency reciprocating engines using California low sulfur fuels require no additional monitoring for opacity.

(iii). Diesel/Distillate-Fueled Boilers firing on California low sulfur fuels require a visible emissions inspection after every 1 million gallons diesel combusted, to be counted cumulatively over a 5-year period.

(iv). On any of the above, if a visible emissions inspection documents opacity, an U.S. Environmental Protection Agency (EPA) Method 9 "Visible Emissions Evaluation" shall be completed within 3 working days, or during the next scheduled operating period if the unit ceases firing on diesel/distillate within the 3 working day time frame.

[Rule 204 - *Permit Conditions*]
[Rule 401 - *Visible Emissions*]
[40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

14. Owner/Operator is limited to use of the following quality fuels for fuel types specified elsewhere in this permit: PUC quality natural gas fuel - sulfur compounds shall not exceed 800 parts per million (ppm) calculated as hydrogen sulfide at standard conditions; diesel fuel - sulfur content shall not exceed 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limits is assumed for PUC quality natural gas fuel and CARB certified diesel fuel. Records shall be kept on-site and available for review by District, state, or federal personnel at any time. The sulfur content of non-CARB certified diesel fuel shall be determined by use of American Society for Testing and Materials (ASTM) method D 2622-82 or ASTM method D 2880-71, or equivalent.

[*40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements*]
[Rule 431 - *Sulfur Content of Fuels*]

15. Emissions of fugitive dust from any transport, handling, construction, or storage activity at this facility shall not be visible in the atmosphere beyond the property line of the facility.
[Rule 403 - *Fugitive Dust*]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.1 unless an "Alternative PM_{10} Control Plan" (ACP) pursuant to Rule 403.1(G) has been approved. Construction/Demolition activities shall comply with a District approved Dust Control Plan. ***District/State Only***
[**SIP Pending:** Rule 403.1 - *Fugitive Dust Control for the Searles Valley Planning Area*]

17. Owner/Operator shall not discharge into the atmosphere from this facility, particulate matter (PM) except liquid sulfur compounds, in excess of the concentration at standard conditions, shown in Rule 404, Table 404 (a).
    (a) Where the volume discharged is between figures listed in the table the exact concentration permitted to be discharged shall be determined by linear interpolation.
    (b) This condition shall not apply to emissions resulting from the combustion of liquid or gaseous fuels in steam generators or gas turbines.
    (c) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [Rule 404 - *Particulate Matter Concentration*]

18. Owner/Operator shall not discharge into the atmosphere from this facility, solid PM including lead and lead compounds in excess of the rate shown in Rule 405, Table 405(a).
    (a) Where the process weight per hour is between figures listed in the table, the exact weight of permitted discharge shall be determined by linear interpolation.
    (b) For the purposes of this condition, emissions shall be averaged over one complete cycle of operation or one hour, whichever is the lesser time period.
    [Rule 405 - *Solid Particulate Matter, Weight*]

19. Owner/Operator shall not discharge into the atmosphere from this facility, from any single source of emissions whatsoever, sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO_2), greater than or equal to 500 ppm by volume.
[Rule 406 - *Specific Contaminants*]

20. Owner/Operator shall not discharge into the atmosphere from this facility, carbon monoxide (CO) exceeding 2000 ppm measured on a dry basis, averaged over a minimum of 15 consecutive minutes.
    (a) The provisions of this condition shall not apply to emissions from internal combustion engines.
    [Rule 407 - *Liquid and Gaseous Air Contaminants*]

21. Owner/Operator shall not build, erect, install, or use any equipment at this facility, the use

of which, without resulting in a reduction in the total release of air contaminants to the atmosphere, reduces or conceals an emission that would otherwise constitute a violation of Chapter 3 (commencing with Section 41700) of Part 4, of Division 26 of the Health and Safety Code or of District Rules.

(a) This condition shall not apply to cases in which the only violation involved is of Section 41700 of the Health and Safety Code, or of District Rule 402.

[Rule 408 - *Circumvention*]

22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 25 consecutive minutes.
[Rule 409 - *Combustion Contaminants*]
Reference Section III A(1)

23. The Air Pollution Control Officer (APCO), at his/her discretion, may refrain from enforcement action against an Owner/Operator of any equipment that has violated a technology-based emission limitation, including but not limited to conditions contained in any permit issued by the District establishing such emission limitation, provided that a Breakdown has occurred and:
    (a) Any breakdown that results in emissions exceeding a technology-based emission limitation is reported to the District within one hour of such breakdown or within one hour of the time a person knew or reasonably should have known of the occurrence of such breakdown; and
    (b) An estimate of the repair time is provided to the District as soon as possible after the report of the breakdown; and
    (c) All reasonable steps are immediately taken to minimize the levels of emissions and to correct the condition leading to the excess emissions.
    (d) The equipment is operated only until the end of a cycle or twenty-four (24) hours, whichever is sooner, at which time it shall be shut down for repairs unless a petition for an emergency variance has been filed with the clerk of the Hearing Board in accordance with Regulation V.
    (e) If the breakdown occurs outside normal District working hours, the intent to file an emergency variance shall be transmitted to the District in a form and manner prescribed by the Air Pollution Control Officer (APCO).

District/State Only

[**SIP Pending:** Rule 430 - *Breakdown Provisions*]

24. [**RESERVED]**

25. Owner/Operator of this facility shall not discharge into the atmosphere emissions in excess of the following from VOC containing materials or from organic solvents which are not VOCs unless such emissions have been reduced by at least 85%:
    (a) VOCs from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month per Facility.

(b) a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average.

(c) The provisions of this condition shall not apply to:

(1) The manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.

(2) The emissions of VOCs from VOC-containing materials or equipment which are subject to the rules of Regulation IV or which are exempt from air pollution control requirements by said rules.

(3) The spraying or other employment of organic solvents as insecticides, pesticides or herbicides.

(4) The use of equipment or materials for which other requirements are specified in source specific rules of Regulation XI after the compliance dates specified in such source specific rules.

(5) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluroethane.

(6) Aerosol products

[**SIP**: Rule 442 – *Usage of Solvents*]

26. Owner/Operator shall not set open outdoor fires unless in compliance with Rule 444. Outdoor fires burned according to an existing District permit are not considered "open outdoor fires" for the purposes of Rule 444 (reference Rule 444(B)(10)).
[Rule 444 – *Open Outdoor Fires*]

27. Owner/Operator of this facility shall comply with the Organic Solvent Degreasing Operations requirements of Rule 1104 when engaged in wipe cleaning, cold solvent cleaning, and/or vapor cleaning (degreasing) operations for metal/non-metal parts/products. These requirements are listed as follows:

(a) All degreasers shall be equipped with a cover, which reduces solvent evaporation and minimizes disturbing the vapor zone.

(b) A permanent, conspicuous label summarizing the applicable operating requirements contained in Rule 1104. In lieu of a label, operating instructions may be posted near the degreaser where the operators can access the proper operating requirements of this rule.

(c) <u>Cold Solvent Degreasers - Freeboard Requirements:</u>

(i) Cold solvent degreasers using only low volatility solvents, which are not agitated, shall operate with a freeboard height of not less than 6 inches.

(ii) Cold solvent degreasers using only low volatility solvents may operate with a freeboard ratio equal to or greater than 0.50 when the cold solvent degreaser has a cover, which remains closed during the cleaning operation.

(iii) Any cold solvent degreasers using solvent which is agitated, or heated above 50ºC (120ºF) shall operate with a freeboard ratio equal to or greater than 0.75.

(iv) A water cover may be used as an acceptable control method to meet the

freeboard requirements, when the solvent is insoluble in water and has a specific gravity greater than one.

(d) Cold Solvent Degreasers - Cover Requirements:

(i) Cold solvent degreasers using high volatility solvent shall have a cover that is a sliding, rolling or guillotine (bi-parting) type, which is designed to easily open and close without disturbing the vapor zone.

(e) Cold Solvent Degreasers - Solvent Level Identification:

(i) A permanent, conspicuous mark locating the maximum allowable solvent level conforming to the applicable freeboard requirements.

(f) All Degreasers shall comply with the following operating requirements:

(i) Any solvent cleaning equipment and any emission control device shall be operated and maintained in strict accord with the recommendations of the manufacturer.

(ii) Degreasers shall not be operating with any detectable solvent leaks.

(ii) All solvent, including waste solvent and waste solvent residues, shall be stored in closed containers at all times. All containers for any solvent(s) shall have a label indicating the name of the solvent/material they contain.

(iv) Waste solvent and any residues shall be disposed of by one of the following methods: a commercial waste solvent reclamation service licensed by the State of California; **or** a federally or state licensed facility to treat, store or dispose of such waste; **or** the originating facility may recycle the waste solvent and materials in conformance with requirements of Section 25143.2 of the California Health and Safety Code.

(v) Degreasers shall be covered to prevent fugitive leaks of vapors, except when processing work or to perform maintenance.

(vi) Solvent carryout shall be minimized by the following methods:

(a) Rack workload arranged to promote complete drainage

(b) Limit the vertical speed of the power hoist to 3.3 meters per minute (11 ft/min) or less when such a hoist is used.

(c) Retain the workload inside of the vapor zone until condensation ceases.

(d) Tip out any pools of solvent remaining on the cleaned parts before removing them from the degreaser if the degreasers are operated manually.

(e) Do not remove parts from the degreaser until the parts are visually dry and not dripping/leaking solvent. (This does not apply to an emulsion cleaner workload that is rinsed with water within the degreaser immediately after cleaning.)

(vii) The cleaning of porous or absorbent materials such as cloth, leather, wood or rope is prohibited.

(viii) Except for sealed chamber degreasers, all solvent agitation shall be by pump recirculation, a mixer, or ultrasonics.

(ix) The solvent spray system shall be used in a manner such that liquid solvent does not splash outside of the container. The solvent spray shall be a continuous stream, not atomized or shower type, unless, the spray is conducted in a totally enclosed space, separated from the environment.

(x) For those degreasers equipped with a water separator, no solvent shall be visually detectable in the water in the separator.

(xi) Wipe cleaning materials containing solvent shall be kept in closed containers at all times, except during use.

(xii) A degreaser shall be located so as to minimize drafts being directed across the cleaning equipment, the exposed solvent surface, or the top surface of the vapor blanket.

(xiii) A method for draining cleaned material, such as a drying rack suspended above the solvent and within the freeboard area, shall be used so that the drained solvent is returned to the degreaser or container.

(g) Rule 442 Applicability: Any solvent using operation or facility which is not subject to the source-specific Rule 1104 shall comply with the provisions of Rule 442. Any solvent using operation or facility which is exempt from all or a portion of the volatile organic compound (VOC) limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.

(h) Solvent Usage Records. Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, Section (E), shall comply with the following requirements:

(1) Maintain and have available during an inspection, a current list of solvents in use at the facility which provides all of the data necessary to evaluate compliance, including the following information separately for each degreaser, as applicable:

(i) Product name(s) used in the degreaser, and

(ii) The mix ratio of solvent compounds mixtures of solvents are used, and

(iii) VOC content of solvent or mixture of compounds as used, and

(iv) The total volume of the solvent(s) used for the facility, on a monthly basis, and

(v) The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(2) Additionally, for any degreaser utilizing an add-on emission control device/system as a means of complying with provisions of Rule 1104 shall, on a monthly basis, maintain records of key system operating and maintenance data. Such data are recorded for the purpose of demonstrating continuous compliance during periods of emission producing activities. The data shall be recorded in a manner as prescribed by the District.

(3) Documentation shall be maintained on site of the disposal or on-site recycling of any waste solvent or residues.

(4) Records shall be retained (at facility) and available for inspection by District, state or federal personnel for the previous 5-year period as required by this Title V / Federal Operating Permit (Reference Rule 1203(D)(1)(d)(ii)).

[Rule 1104 - *Organic Solvent Degreasing Operations*]

28. Owner/Operator's use of *Architectural Coatings* at this facility shall comply with the applicable requirements of Rule 1113, including the VOC limits specified in Rule 1113, Part C- Requirements, as listed in Table 1 below:

Table 1
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS

Limits are expressed in grams of VOC per liter[a] of coating thinned to the manufacturer's maximum recommendation, excluding the volume of any water, exempt compounds, or colorant added to tint bases. "Manufacturer's maximum recommendation" means the maximum recommendation for thinning that is indicated on the label or lid of the coating container.

Coating Category	Effective, 02/24/2003	Effective, 01/01/2013
Primary Coatings		
Flat Coatings	100	50
Nonflat Coatings	150	100
Nonflat-High Gloss Coatings	250	150
Specialty Coatings		
Aluminum Roof Coatings	n/a	400
Basement Specialty Coatings	n/a	400
Bituminous Roof Coatings	300	50
Bituminous Roof Primers	350	350
Bond Breakers	350	350
Concrete Curing Compounds	350	350
Concrete/Masonary Sealers	n/a	100
Driveway Sealers	n/a	50
Dry Fog Coatings	400	150
Faux Finishing Coatings	350	350
Fire Resistive Coatings	350	350
Floor Coatings	250	100
Form-Release Compounds	250	250
Graphic Arts Coatings (Sign Paints)	500	500
High Temperature Coatings	420	420
Industrial Maintenance Coatings	250	250
Low Solids Coatings	120[a]	120[a]
Magnesite Cement Coatings	450	450
Mastic Texture Coatings	300	100
Metallic Pigmented Coatings	500	500
Multi-Color Coatings	250	250
Pre-Treatment Wash Primers	420	420
Primers, Sealers, and Undercoaters	200	100
Reactive Penetrating Sealers	n/a	350
Recycled Coatings	250	250
Roof Coatings	250	50
Rust Preventative Coatings	400	250
Shellacs:		
Clear	730	730
Opaque	550	550
Specialty Primers, Sealers, and Undercoaters	350	100
Stains	250	250
Stone Consolidants	n/a	450
Swimming Pool Coatings	340	340
Traffic Marking Coatings	150	100
Tub and Tile Refinish Coatings	n/a	420
Waterproofing Membranes	n/a	250
Wood Coatings	n/a	275
Wood Preservatives	350	350
Zinc-Rich Primers	n/a	340
a: Limit is expressed as VOC Actual (G)(1)(a)(ii)		

[Rule 1113 - *Architectural Coatings*]

29. Owner/Operator's use of *Wood Products Coatings* at this facility shall comply with the applicable requirements of Rule 1114, including the VOC limits specified in Rule 1114, part C, Table of Standards, as listed below:

(1) VOC Content of Coatings & Adhesives

(a) Any Owners and/or Operators of Wood Products Coating Application Operations shall not apply any Coating or Adhesive to a Wood Product which has a VOC Content, including any VOC-containing material added to the original Coating supplied by the manufacturer, which exceeds the applicable limit specified below, unless emissions to the atmosphere are controlled by air pollution abatement equipment with an Overall Control Efficiency of at least 85 percent. Any Coating subject to this rule that meets either of the two VOC Content limit formats (grams per liter or pounds per gallon [lb/gal]) is in compliance with this subsection.

(i) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97		On and After 7/1/2005
		Column I *or* g/L (lb/gal)	Column II g/L (lb/gal)	g/L (lb/gal)
Clear Sealers	680 (5.7)	550 (4.6)	680 (5.7)	275 (2.3)
Clear Topcoat	680 (5.7)	550 (4.6)	275 (2.3)	275 (2.3)
Pigmented Primers, Sealers and Undercoats	600 (5.0)	550 (4.6)	600 (5.0)	275 (2.3)
Pigmented Topcoats	600 (5.0)	550 (4.6)	275 (2.3)	275 (2.3)

Effective July 1, 1997, a person or facility shall use Coatings on Wood Products that comply with either all VOC Content limits in Column I or all VOC Content limits in Column II. A person or facility that applies a Pigmented Primer, Sealer or Undercoat, but not a Clear Topcoat or Pigmented Topcoat, to a Wood Product shall be subject to column I for that product.

(ii) Notwithstanding the requirements of subsection (C)(1)(a)(i), a person or facility that applies a topcoat and a primer, sealer or undercoat to a Shutter may, until July 1, 2005, choose to comply with the VOC Content limits specified below for that Shutter:

(c) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	g/L (lb/gal)
Clear Sealers	275 (2.3)
Clear Topcoat	680 (5.7)
Pigmented Primers, Sealers & Undercoats	275 (2.3)
Pigmented Topcoats	600 (5.0)

(d) LIMITS
Grams of VOC Per Liter of Coating,
Less Water and Less Exempt Compounds (VOC Content)

Coating	Current Limit g/L (lb/gal)	On and After 7/1/97	On and After 7/1/2005
		g/L (lb/gal)	g/L (lb/gal)
Fillers	500 (4.2)	500 (4.2)	275 (2.3)
High-Solid Stains	700 (5.8)	550 (4.6)	350 (2.9)
Inks	500 (4.2)	500 (4.2)	500 (4.2)
Mold-Seal Coatings	750 (6.3)	750 (6.3)	750 (6.3)
Multi-Colored Coatings	685 (5.7)	685 (5.7)	275 (2.3)
Low-Solids Stains, Toners and Washcoats	800 (6.7)	480 (4.0)	120 (1.0)
Adhesives	250 (2.1)	250 (2.1)	250 (2.1)

[Rule 1114 - *Wood Products Coating Operations*]

30. Owner/Operator's use of *Metal Parts and Products Coatings* at this facility shall comply with the applicable requirements of Rule 1115, including the VOC limits specified in Rule 1115, as listed below:

Owner/Operator shall not apply to metal parts and products any coatings, including any VOC-containing materials added to the original coating supplied by the manufacturer, which contain VOC in excess of the limits specified below unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with

a capture and control system Combined Efficiency of at least 85 percent:

LIMITS
(Grams of VOC Per Liter of Coating, Less Water and Less Exempt Compounds)

Coating	Air Dried		Baked	
(lb/gal)	g/L		(lb/gal)	g/L
General	420	(3.5)	360	(3.0)
Military Specification	420	(3.5)	360	(3.0)
Etching Filler	420	(3.5)	420	(3.5)
Solar-Absorbent	420	(3.5)	360	(3.0)
Heat-Resistant	420	(3.5)	360	(3.0)
High-Gloss	420	(3.5)	360	(3.0)
Extreme High-Gloss	420	(3.5)	360	(3.0)
Metallic	420	(3.5)	420	(3.5)
Extreme Performance	420	(3.5)	360	(3.0)
Prefabricated Architectural				
Component	420	(3.5)	275	(2.3)
Touch Up	420	(3.5)	360	(3.0)
Repair	420	(3.5)	360	(3.0)
Silicone-Release	420	(3.5)	420	(3.5)
High Performance Architectural	420	(3.5)	420	(3.5)
Camouflage	420	(3.5)	420	(3.5)
Vacuum-Metalizing	420	(3.5)	420	(3.5)
Mold-Seal	420	(3.5)	420	(3.5)
High-Temperature	420	(3.5)	420	(3.5)
Electric-Insulating Varnish	420	(3.5)	420	(3.5)
Pan-Backing	420	(3.5)	420	(3.5)
Pretreatment Wash Primer	420	(3.5)	420	(3.5)
Clear Coating	520	(4.3)	520	(4.3)

[Rule 1115 - *Metal Parts and Products Coating Operations*]

31. Owner/Operator's use of *Automotive Refinishing Operations* at this facility shall comply with the applicable requirements of Rule 1116, including the VOC limits specified in Rule 1116, as listed below:

(1) VOC Contents of Coatings

(a) Effective on the dates specified, a Person shall not apply Coating to a Motor Vehicle, Mobile Equipment, or Associated Parts or Components, that has a VOC content in excess of the limits contained in Table 1 and Table 2 of this subsection.

Table 1 - Coating Categories and VOC Limits

	VOC Regulatory Limit, as applied, in grams per Liter (pounds per gallon)
Coating Categories	**Effective on and after 7/1/2011**
Adhesion Promoter	540 (4.5)
Clear Coating	250 (2.1)
Color Coating	420 (3.5)
Multi-color Coating	680 (5.7)
Pretreatment Coating	660 (5.5)
Primer	250 (2.1)
Primer Sealer	250 (2.1)
Single-stage Coating	340 (2.8)
Temporary Protective Coating	60 (0.5)
Truck Bed Liner Coating	310 (2.6)
Underbody Coating	430 (3.6)
Uniform Finish Coating	540 (4.5)
Any Other Coating Type	250 (2.1)

(b) Compliance with the VOC limits shall be based on VOC content, including any VOC material added to the original coating supplied by the manufacturer, less water and Exempt Compounds, as applied to the Motor Vehicle, Mobile Equipment, or Associated Parts or Components.

(c) All automotive coatings shall be applied using either electrostatic application equipment, HVLP Spray gun, or other coating application demonstrated to the APCO to have equivalent transfer efficiencies of these.

(d) Solvents used in Surface Preparation and Cleaning Operations shall not exceed 25 g/L VOC. Solvents shall be stored in vapor tight closed containers. Closed, non-absorbent containers shall be used for the storage or disposal of any applicator (including brushes, swabs, cloth or paper) used for solvent Surface Preparation and Cleaning Operations

(e) The owner/operator when engaging in coating operations subject to Rule 1116 shall maintain a log containing at least the following:

1. Equipment by permitted number, or name of operation for unpermitted equipment, that uses material containing VOC subject Rule 1116.

2. Type of material (Coating, Solvent, etc.), its use, and its applicable VOC limit in pounds per gallon (or grams per liter), by District Rule or Rules.

3. Manufacturer of material, manufacturer product name, and/or code number.

4. Quantity of each Automotive Coating, Solvent used, and its VOC content. (Note: Units most be consistent).

5. The HAP Compounds content.

6. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each coating, diluents, thinner, and solvent used.

[Rule 1116 - *Automotive Refinishing Operations*]

32. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*).

33. Owner/Operator shall comply with all requirements of Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*. Specifically, the Owner/Operator shall include Greenhouse Gas (GHG) emission data and all applicable GHG requirements with any application, as specified in 1211(D)(1), for a Federal Operating Permit.
[**SIP Pending:** Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*;
]

B. FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:

1. Any data and records generated and/or kept pursuant to the requirements in this federal operating permit (Title V Permit) shall be kept current and on site for a minimum of five (5) years from the date generated. Any records, data, or logs shall be supplied to District, state, or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

2. Any Compliance/Performance testing required by this Federal Operating Permit shall follow the administrative procedures contained in the District's *Compliance Test Procedural Manual***.** Any required annual Compliance and/or Performance Testing shall be accomplished by obtaining advance written approval from the District pursuant to the District's *Compliance Test Procedural Manual*. All emission determinations shall be made as stipulated in the *Written Test Protocol* accepted by the District. When proposed testing involves the same procedures followed in prior District approved testing, then the previously approved *Written Test Protocol* may be used with District concurrence.
[Rule 204 - *Permit Conditions*]

3. Owner/Operator of permit units subject to Comprehensive Emissions Inventory Report / Annual Emissions Determinations for District, state, and federal required Emission Inventories shall monitor and record the following for each unit:
   (a) The cumulative annual usage of each fuel type. The cumulative annual usage of each fuel type shall be monitored from utility service meters, purchase or tank fill records.
   (b) Fuel suppliers' fuel analysis certification/guarantee including fuel sulfur content shall be kept on site and available for inspection by District, state or federal personnel upon request. The sulfur content of diesel fuel shall be determined by use of ASTM method D2622-82, or (ASTM method D 2880-71, or equivalent). Vendor data meeting this requirement are sufficient.

   [*40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements*]
   [Rule 204 - *Permit Conditions*]
   [Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4 (a) Owner/Operator shall submit Compliance Certifications as prescribed by Rule 1203(F)(1) and Rule 1208, in a format approved by MDAQMD. Compliance Certifications by a Responsible Official shall certify the truth, accuracy and completeness of the document submitted and contain a statement to the effect that the certification is based upon information and belief, formed after a reasonable inquiry; the statements and information in the document are true, accurate, and complete.
   [40 CFR 70.6(c)(5)(i); Rule 1208; Rule 1203(D)(1)(vii-x)]

(b) Owner/Operator shall include in any Compliance Certification the methods used for monitoring such compliance.
   [40 CFR 70.6(c)(5)(ii); Rule 1203(D)(1)(g)(viii)]

(c) Owner/Operator shall comply with any additional certification requirements as specified in 42 United States Code (U.S.C.) §7414(a)(3), Recordkeeping, Inspections, Monitoring and Entry (Federal Clean Air Act §114(a)(3)) and 42 U.S.C. §7661c(b), Permit Requirements and Conditions (Federal Clean Air Act §503(b)), or in regulations promulgated thereunder.
   [Rule 1203 (D)(1)(g)(x)]

(d) Owner/Operator shall submit a Compliance Certification Report to the APCO/District on an annual basis pursuant to District Rule 1203. The Compliance Certification Report shall cover the 12 month period from March 11 to March 10, and be postmarked no later than 30 days after the end of the reporting period. Each report shall be certified to be true, accurate, and complete by "The Responsible Official" and a copy of this annual report shall also be contemporaneously submitted to the EPA Region IX Administrator.
   [40 CFR 72.90.a and Rule 1203 (D)(1)(g)(v - x)]

5. Owner/Operator shall submit, on a *semi- annual* basis, a *Monitoring Report* to the Air Pollution Control Officer (APCO) / District . Each *Monitoring Report* shall cover the periods from March 11 to September 7 and September 8 to March 10, and be postmarked no later than 30 days after the end of the reporting periods. This *Monitoring Report* shall

be certified to be true, accurate, and complete by "The Responsible Official" and shall include the following information and/or data:

(a) Summary of deviations from any federally enforceable requirement in this permit.
(b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement / federally - enforceable requirement.
(c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement / federally - enforceable requirement that does not directly require such monitoring.

An alternate Monitoring Report format may be used upon prior approval by MDAQMD. [Rule 1203(D)(1)(e)(i)]

6. Owner/Operator shall promptly report all deviations from Federal Operating Permit requirements including, but not limited to, any emissions in excess of permit conditions, deviations attributable to breakdown conditions, and any other deviations from permit conditions. Such reports shall include the probable cause of the deviation and any corrective action or preventative measures taken as a result of the deviation. [Rule 1203(D)(1)(e)(ii) and Rule 430(C)]
Prompt reporting shall be determined as follows:
(a) For deviations involving emissions of air contaminants in excess of permit conditions including but not limited to those caused by a breakdown, prompt reporting shall be within one hour of the occurrence of the excess emission or within one hour of the time a person knew or reasonably should have known of the excess emission. Documentation and other relevant evidence regarding the excess emission shall be submitted to the District within sixty (60) days of the date the excess emission was reported to the District. [SIP Pending: Rule 430 - Breakdown Provisions as amended 12/21/94 and submitted 2/24/95]
(b) For other deviations from permit conditions not involving excess emissions of air contaminants shall be submitted to the District with any required monitoring reports at least every six (6) months. [Rule 1203(D)(1)(e)(i)]

7. If any facility unit(s) should be determined not to be in compliance with any federally enforceable requirement during the 5-year permit term, then Owner/Operator shall obtain a *Schedule of Compliance* approved by the District Hearing Board pursuant to the requirements of MDAQMD Regulation 5 (Rules 501 - 518). In addition, Owner/Operator shall submit a *Progress Report* on the implementation of the *Schedule of Compliance*. The *Schedule of Compliance* shall contain the information outlined in (b), below. The *Progress Report* shall contain the information outlined in (c), below. The *Schedule of Compliance* shall become a part of this Federal Operating Permit by administrative incorporation. The *Progress Report* and *Schedule of Compliance* shall comply with Rule 1201(I)(3)(iii) and shall include:
(a) A narrative description of how the facility will achieve compliance with such requirements; and
(b) A *Schedule of Compliance* which contains a list of remedial measures to be taken for the facility to come into compliance with such requirements, an enforceable sequence of actions, with milestones, leading to compliance with such

requirements and provisions for the submission of *Progress Reports* at least every six (6) months. The *Schedule of Compliance* shall include any judicial order, administrative order, and/or increments of progress or any other schedule as issued by any appropriate judicial or administrative body or by the District Hearing Board pursuant to the provisions of Health & Safety Code §42350 et seq.; and

(c) *Progress Reports* submitted under the provisions of a *Schedule of Compliance* shall include: Dates for achieving the activities, milestone, or compliance required in the schedule of compliance; and dates when such activities, milestones or compliance were achieved; and an explanation of why any dates in the schedule of compliance were not or will not be met; and any preventive or corrective measures adopted due to the failure to meet dates in the schedule of compliance.
[Rule 1201 (I)(3)(iii); Rule 1203 (D)(1)(e)(ii); Rule 1203 (D)(1)(g)(v)]

8. The permit holder shall submit an application for renewal of this Title V Permit at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal operating permit (FOP). If an application for renewal has not been submitted and deemed complete in accordance with this deadline, the facility may not operate under the (previously valid) FOP after this FOP expiration date. If the permit renewal has not been issued by this FOP expiration date, but a timely application for renewal has been submitted and deemed complete in accordance with the above deadlines, the existing permit will continue in force until the District takes final action on the renewal application.
[Rule 1202(B)(3)(b)(i); Rule 1202(E)(2)(a)]

C. ***FACILITY-WIDE COMPLIANCE CONDITIONS:***

1. Owner/Operator shall allow an authorized representative of the MDAQMD to enter upon the permit holder's premises at reasonable times, with or without notice.
[40 CFR 70.6(c)(2)(i); Rule 1203(D)(1)(g)(i)]

2. Owner/Operator shall allow an authorized representative of the MDAQMD to have access to and copy any records that must be kept under condition(s) of this Federal Operating Permit.
[40 CFR 70.6(c)(2)(ii); Rule 1203(D)(1)(g)(ii)]

3. Owner/Operator shall allow an authorized representative of the MDAQMD to inspect any equipment, practice or operation contained in or required under this Federal Operating Permit.
[40 CFR 70.6(c)(2)(iii); Rule 1203(D)(1)(g)(iii)]

4. Owner/Operator shall allow an authorized representative of the MDAQMD to sample and/or otherwise monitor substances or parameters for the purpose of assuring compliance with this Federal Operating Permit or with any Applicable Requirement.
[40 CFR 70.6(c)(2)(iv); Rule 1203(D)(1)(g)(iv)]

5. Owner/Operator shall remain in compliance with all Applicable Requirements / federally

enforceable requirements by complying with all compliance, monitoring, record-keeping, reporting, testing, and other operational conditions contained in this Federal Operating Permit. Any noncompliance constitutes a violation of the Federal Clean Air Act and is grounds for enforcement action; the termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal application.
[1203 (D)(1)(f)(ii)]

6. Owner/Operator shall comply in a timely manner with all applicable requirements / federally - enforceable requirements that become effective during the term of this permit.
[Rule 1201 (I)(2); Rule 1203(D)(1)(g)(v)]

7. Owner/Operator shall insure that all applicable subject processes comply with the provisions of 40 CFR 61, *National Emission Standards for Hazardous Air Pollutants*, subpart A, *General Provisions*, and subpart M, *Asbestos*.
[40 CFR 61, subparts A and M]

8. Owner/Operator shall notify Air Pollution Control Officer (APCO) / District at least 10 working days before any applicable asbestos stripping or removal work is to be performed as required by section 61.145.b of 40 CFR 61 subpart M, *National Emission Standard for Asbestos*.
[40 CFR 61.145.b]

9. Owner/Operator shall notify the Air Pollution Control Officer (APCO) / District, on an **annual** basis, postmarked by December 17 of the calendar year, of the predicted asbestos renovations for the following year as required by section 61.145.b of 40 CFR 61, subpart M [see cite for threshold triggering and applicability].
[40 CFR 61.145.b]

D. GASOLINE DISPENSING FACILITIES; TRONA & LAKE GARAGE, ARGUS, WESTEND, RAILROAD:

D-1. CONDITIONS APPLICABLE TO TRONA GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N002725; consisting of:

a. Tanks - Number of Gasoline Tanks: 1

	Tank Number:	1
1.	Material Stored:	(87) Unleaded
2.	Volume Gallons:	1,000
3.	Aboveground (A):	A

b. Dispensing Equipment:

1.	Gasoline Dispensing Nozzles (Number):	1
2.	Phase II Vapor Recovery System (Type):	Balance [gasoline only]

D-2. CONDITIONS APPLICABLE TO TRONA/LK GARAGE GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N002235; consisting of:

a. Tanks - Number of Gasoline Tanks: 1

	Tank Number:	1
1.	Material Stored:	(87) Unleaded
2.	Volume Gallons:	2,000
3.	Aboveground (A):	A

b. Dispensing Equipment:

1.	Gasoline Dispensing Nozzles (Number):	1
2.	Phase II Vapor Recovery System (Type):	Balance [gasoline only]

D-3. CONDITIONS APPLICABLE TO ARGUS GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N002727; consisting of:

a. Tanks - Number of Gasoline Tanks: 1

	Tank Number:	1
1.	Material Stored:	(87) Unleaded
2.	Volume Gallons:	1,000
3.	Underground (U):	U

b. Dispensing Equipment:

1.	Gasoline Dispensing Nozzles (Number):	1
2.	Phase II Vapor Recovery System (Type):	Balance [gasoline only]

D-4. CONDITIONS APPLICABLE TO WESTEND GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N002726; consisting of:

a. Tanks - Number of Gasoline Tanks: 1

	Tank Number:	1
1.	Material Stored:	(87) Unleaded
2.	Volume Gallons:	1,000
3.	Aboveground (A):	A

b. Dispensing Equipment:

1. Gasoline Dispensing Nozzles (Number): 1
2. Phase II Vapor Recovery System (Type): Balance [gasoline only]

D-5. CONDITIONS APPLICABLE TO TRONA RAILWAY COMPANY GASOLINE DISPENSING FACILITY (non-retail); MDAQMD PERMIT NUMBER N002230; consisting of:

a. Tanks - Number of Tanks: 1

Tank Number: 1
1. Material Stored: (87) Unleaded
2. Volume Gallons: 1,000
3. Aboveground (A): A

b. Dispensing Equipment:

1. Gasoline Dispensing Nozzles (Number): 1
2. Phase II Vapor Recovery System (Type): Balance [gasoline only]

E. CONDITIONS APPLICABLE TO GASOLINE DISPENSING FACILITIES:

1. Owner/Operator shall not sell or supply for use within the District as a fuel for motor vehicles as defined by the Vehicle Code of the State of California, gasoline having a degree of unsaturation greater than that indicated by a Bromine Number of 30 as determined by ASTM Method D1159-66.
[Rule 432]

2. Owner/Operator shall not transfer, permit the transfer or provide equipment for the transfer of gasoline into or from any tank truck, trailer, or railroad tank car into the gasoline storage tank unless the transfer is made to tank equipped as required in Rule 463 or unless all of the following conditions are met:
(a) Tank is equipped with a permanent submerged fill pipe, and
(b) Such delivery vessel or tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board, and the facility's vapor recovery system shall be capable of recovering or processing 95% of the displaced gasoline vapors, and
(c) All vapor return lines are connected between the tank truck, trailer, or railroad tank car and the gasoline tank, and the vapor recovery system is in operation in accordance with the manufacturer's specifications, and the delivery vehicle, including all hoses, fittings, and couplings, is maintained in a vapor-tight condition, as defined by the applicable California Air Resources Board certification and test procedures (Part II, Section B, of Title V Permit), and all equipment is operated and maintained according to the manufacturer's specifications.

(d) Hatch openings are limited to no more than 3 minutes in duration for visual inspection, provided that pumping has been stopped for at least 3 minutes prior to opening, and the hatch is closed fully before pumping is resumed.

(e) All lines are gravity drained, in such a manner that upon disconnect no liquid spillage would be expected; and

(f) Equipment subject to this condition shall be operated and maintained, with no defects, as follows:

(i) All fill tubes are equipped with vapor-tight covers, including gaskets; and

(ii) All dry breaks have vapor-tight seals and are equipped with vapor-tight covers or dust covers; and

(iii) Coaxial fill tubes are operated so there is no obstruction of vapor passage from the storage tank back to the delivery vehicle; and

(iv) The fill tube assembly, including fill tube, fittings and gaskets, is maintained to prevent vapor leakage from any portion of the vapor recovery system; and

(v) All storage tank vapor return pipes without dry breaks are equipped with vapor-tight covers, including gaskets.

[Rule 461]

3. Owner/Operator shall not transfer, or permit the transfer, or provide equipment for the transfer of gasoline from the gasoline storage tank into any motor vehicle tank of greater than 19 liters (5 gallons) capacity unless:

(a) The dispensing unit used to transfer the gasoline from the gasoline tank to the motor vehicle fuel tank is equipped with a vapor recovery system which has been certified by the California Air Resources Board as capable of recovering 95% of the displaced gasoline vapors; and

(b) The vapor recovery system is operating in accordance with the manufacturer's specifications; and

(c) Equipment is operated and maintained with none of the following defects, pursuant to the definitions in California Administrative Code Section 94006, Subchapter 8, Chapter 1, Part III, of Title 17:

(i) Torn or cut boots;

(ii) Torn or cut face seals or face cones;

(iii) Loose or broken retractors;

(iv) Boots clamped or otherwise held in an open position;

(v) Leaking nozzles;

(vi) Loose, missing, or disconnected nozzle components, including but not limited to boots, face seals, face cones, check valve wires, diaphragm covers and latching devices;

(vii) Defective shutoff mechanisms;

(viii) Loose, missing, or disconnected vapor fuel hoses and associated components including but not limited to flow restrictors, swivels and anti-recirculation valves;

(ix) Crimped, cut, severed, or otherwise damaged vapor or fuel hoses;

(x) Missing, turned off, or otherwise not operating assist type vapor recovery systems, or any components of such systems;

(xi) Improper or non-"CARB certified" equipment or components;
(xii) Inoperative, severely malfunctioning or missing vacuum producing device;
(xiii) Inoperative, loose, missing or disconnected pressure/vacuum relief valves, vapor check valves or dry breaks.

[Rule 461]

4. Vapor processing or vapor recovery system used by Owner/Operator shall comply with all safety, fire, weights and measures, and other applicable codes and/or regulations.
[Rule 461]

5. Owner/Operator shall not install any new or rebuilt vapor recovery equipment unless the components and parts clearly identify by markings the certified manufacturing company and/or certified rebuilding company.
[Rule 461]

6. Vapor recovery system shall be at all times maintained in accordance with the manufacturer's specifications and the State's certification.
[Rule 461]

7. When problems or defects are detected and are associated with any vapor recovery, storage, delivery vessel or dispensing equipment, other than a breakdown of the central vapor incineration or processing unit, the Owner/Operator shall at the end of the cycle, as defined in Rule 461, remove the equipment from service and not use the equipment until it has been repaired, replaced or adjusted as necessary to remove the problem or defect.
[Rule 461]

8. Owner/Operator shall not perform or permit the "pump-out" (bulk transfer) of gasoline from the gasoline storage tank unless such bulk transfer is performed using a vapor recovery system capable of returning the displaced vapors from the delivery vessel or other container being filled back to the gasoline storage tank. This vapor recovery is not required where the container is to be removed or filled with water for testing. For visual inspections, the requirements of Part II, Section B, condition B.3.d. are applicable.
[Rule 461]

9. Owner/Operator shall not store, or allow the storage of, gasoline in the gasoline storage tank unless the tank is equipped with a permanent submerged fill pipe and a certified vapor recovery system.
[Rule 461]

10. Owner/Operator shall maintain a log of all inspections, repairs, and maintenance on equipment subject to Rule 461 as listed in Part II, Section B conditions. Such logs or records shall be maintained at the facility for a minimum of 5 years from the date the records were created and shall be made available to District, state or federal personnel upon request.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii);Rule 461; 40 CFR 70.6(a)(3)(ii)(B);

Rule 1203(D)(1)(d)(ii)]

11. Owner/Operator shall maintain a daily log of product throughput for gasoline dispensing facility.
[Rule 461]

12. Any violation determined by any one of the following listed *Reference Method Tests* shall constitute a violation of the Part II, Section B conditions:

    (a) Vapor Recovery System Efficiency for Delivery Vessels shall be determined by the EPA Method entitled, *Control of Organic Compound Leaks from Gasoline Tank Trucks and Vapor Collection Systems* (method specified in the CTG EPA-450/2-78-051), or the CARB Method entitled, *Certification and Test Procedures for Vapor Recovery Systems of Gasoline Delivery Tanks*.
    (b) Reid Vapor Pressure shall be determined in accordance with ASTM Method D 323-82.
    (c) Vapor Recovery System Efficiency for Bulk Plants shall be determined by CARB Method 202, "*Certification of Vapor Recovery Systems - Bulk Plants*".
    (d) Vapor Recovery System Efficiency for Terminals shall be determined by CARB Method 203, "*Certification of Vapor Recovery Systems - Gasoline Terminals*".
    (e) Vapor Recovery System Efficiency for Service Stations shall be determined by the CARB Methods in "*Test Procedures for Determining the Efficiency of Gasoline Vapor Recovery Systems at Service Stations*".

    [Rule 461]

13. Compliance with the requirement of the Phase II system to be 95 % effective for the recovery of displaced vapors is considered to be demonstrated by maintaining equipment as specified in the applicable ARB Executive Order certifying the system and conditions listed in Part II, Section B conditions.
[Rule 461]

14. Any records which are required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained on-site by the Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

15. Owner/Operator shall conspicuously post in the gasoline dispensing area the operating instructions; the District's toll-free telephone number for complaints and a District specified warning sign. The following is the toll-free telephone number: 1-800-635-4617.
[Rule 461]

16. Any modifications or changes to the piping or control fittings of the vapor recovery system requires prior approval from the MDAQMD.
[Rule 461]

PART III
EQUIPMENT SPECIFIC APPLICABLE REQUIREMENTS; EMISSIONS LIMITATIONS; MONITORING, RECORDKEEPING, REPORTING AND TESTING REQUIREMENTS; COMPLIANCE CONDITIONS; COMPLIANCE PLANS

Pursuant to District Rule 1203(D), all federally applicable requirements are identified for all permit units in Part III. Further, each applicable requirement includes a reference to the origin and authority for each term or condition. Unless otherwise noted, the origin and authority for each term or condition in Part III is as follows:

Rule 204 –Permit Conditions:
Provides for the authority of the APCO to impose written permit conditions. These conditions generally take the form of pertaining to the operation of and in accordance with manufacturer specs/recommendations and/or sound engineering principles.

Rule 401- Visible Emissions
Conditions related to opacity and opacity monitoring. In instances where opacity requirement is more stringent and stems from a specific District, State, or Federal Rule, that rule will be noted.

Rules 404 and 405- Particulate Matter- Concentration and Solid Particulate Matter- Weight
Requirement to meet PM emission standards and/or test for compliance with these PM standards
Non-BACT unit; requirement to vent to an air pollution control device

Periodic Monitoring:
Rule 1203(D)(1)(c)(ii)
General maintenance provisions
Monitoring provisions to demonstrate compliance with opacity and PM emission standards
Pressure differential recordings to demonstrate permit device is properly operated and maintained

Rule 1203(D)(1)(d)(ii)
Retention of all records for a period of at least five years

Regulation XIII- New Source Review (NSR)
Rule 1300- General- In addition to general requirements, ensures no net increase in emissions from a major source. Conditions referencing limitations on potential to emit(PTE) stem from this rule as do operating limitations imposed as part of initial permit review and not associated with prohibitive or source specific rules.

Rule 1303-New Source Review –Imposes Best Available Control Technology Requirements and Emissions Offset Requirements (including ERC and SER). Conditions which require BACT and/or offsets or limitations on PTE stem from this rule.

A. EQUIPMENT DESCRIPTION: TRONA PLANT:

1. MDAQMD PERMIT # B000448; PYROBOR PLANT FURNACE NO. 2 - CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY:
Screw Conveyor, #'s 2 & 3, calc. disc, 5 hp
Conveyor, Calc. Feed, 5 hp
Screw Conveyor, No. 2 Calc. Feed
Dryer, Rotary, # 2 Calc. 8' ID x 70', 30 hp ID fan 75 hp
Hopper, Feed Bin - 3.5 kVA Drag Feeder, 5 hp
Furnace # 2, North American Mfg Blower, 25 hp
FD Fan, North American Mfg Blower, 25 hp FD Fan cooling, 15 hp
Airlock, # 2 Calc Disch rotary, 1.5 hp Calciner Incline Disch Belt, 10 hp

PERMIT CONDITIONS:
1. This equipment shall not be operated unless vented to functioning precipitator under valid District permit C002487.

2. MDAQMD PERMIT # B000449; PYROBOR PLANT-FURNACE NO. 3 - CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY:
3 calciner feed conveyor, 5 hp
Rotary Dryer # 3 Calciner, 40 hp
ID Fan, 75 hp
3 Furnace feed conveyor, 3 hp
Feed Bin Hopper - (3.5 kVA) Drag Chain Feed 5 hp, # 3 Furnace North American Mfg.
FD Fan, North American Mfg. Blower, 25 hp
FD Cooling Fan, 15 hp
Airlock # 3 Calciner Discharge Rotary 1.5 hp

PERMIT CONDITIONS:
1. This equipment shall not be operated unless vented to functioning precipitator under valid District permit number C002487.

3. PYROBOR FURNACE ELECTROSTATIC PRECIPITATOR (ESP) EQUIPMENT DESCRIPTION; MDAQMD PERMIT # C002487:

48 collecting plates w/ 19,710 sq ft over 3 fields, 46,000 ACFM, 450 deg F and 27.5 in Hg; mfg by Environmental Elements Corp.:

PERMIT CONDITIONS:
1. The owner/operator (o/o) shall operate and maintain this ESP in strict accord with the recommendations of the manufacturer/supplier and sound engineering principles.

2. 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. This program shall include:
a. Monthly opacity readings
b. Regular maintenance inspections, with a frequency determined by experience with this equipment.

3. The o/o shall maintain an operations/maintenance log(s) for this equipment on site for at least five (5) years, and shall make the log available to District, State or Federal personnel upon request. This log shall include, at a minimum, the following:
a. Date and results of monthly opacity readings;
b. Date and result of maintenance inspections; and,
c. Monthly Pyrobor process line production (tons).

4. This ESP shall operate concurrently with the Pyrobor Furnaces Nos. 2 and 3 under valid District permit numbers B000449 and B000448.

5. The o/o shall conduct annual compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). The test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 18.5 tons per year combined (verified through source tests and Pyrobor process line production records on a rolling twelve month summary basis): C000489, C000509, C000513, C002487.

7. The o/o must surrender to the District sufficient Emission Reduction Credits to offset the emissions from this equipment before the operation at the above levels. In accordance with Regulation XIII the operator shall obtain 15,193 pounds of PM_{10}, 1413 pounds of VOC, and 44 pounds of SO_x offsets.

4. PYROBOR PLANT MILLING AND SCREENING - CONSISTING OF THE FOLLOWING EQUIPMENT; MDAQMD PERMIT # B000471:

Capacity (hp)	Description
1.0	star valve
1.5	screw conveyor
7.5	Pan Conveyor #3, 6'x40'
15.0	Cooling Fan #3
7.5	Elevator, #2 & #3 Glass Elevator, 60'
5.0	Cooling Roll #3, Pyro Glass Roll, 6' dia x 6' long
	Surge Bin, 2150 ft^3 Capacity
5.0	Mill Apron Feeder
5.0	Scalper Feed Screw
16.0	Scalping Screen, W.S. Tyler Co., 4' x 10', 2 surface, Type 38, Hummer Screen, w/two heavy duty V-50 Vibrators (2 @ 12 KVA total) (East)
16.0	Scalping Screen, W.S. Tyler Co., 4'x10', 2 surface, Type 38, Hummer

	Screen, w/two heavy duty V-50 Vibrators (2 @ 12 KVA total) (West)
4.0	Screen, W.S. Tyler Co., 3'x10', 2 surface, Type 38, Hummer Screen, w/two vibrators (East)
4.0	Screen, W.S. Tyler Co., 3'x10', 2 surface, Type 38, Hummer Screen, w/two vibrators (West)
10.0	Conveyor, 20"x275' belt conveyor to silos
5.0	Conveyor, 18"x266'6" belt conveyor to silos
5.0	1, 2 & 3 Silos Screw Conveyors
10.0	Cooling Roll #2, Flaker chill roll glass cooler, 48" diam. X 48"
5.0	Pan Conveyor #2, 48"x17'3"
3.0	Cooling Conveyor #2, Carrier Natural Frequency conveyor screen, Model HT #3-36120S
30.0	Cooling Fan #2, American Blower Co., Type 106, size 23, 14350 cfm
5.0	Conveyor, 18" dia x 22'5" screw conveyor (scalping screen feed screw)
75.0	Hammer Mill, size 36x24, type B-3, swing hammer pulverizer
5.0	Hammer Mill Screw to #1 Mill Elevator
10.0	Mill Elevator #1, Chain Belt Co., 75'
10.0	Mill Elevator #2, Chain Belt Co., 42' (piggy back elevator)
2.0	Milltronics Magnetic Separator, 2 ea. @ 1 HP (scalper discharge)
5.0	Conveyor, #4, 14' dia. X 22' screw conveyor #4 silo
3.0	Silo Incline Belt Conveyor
5.0	Scalt Belt Conveyor
1.0	Flux Vibrating Screen Flux Bagger
15.0	Ambient Air Fan
3.0	Air Chiller Feed Fan
5.0	Air Chiller

PERMIT CONDITIONS:

1. This equipment shall not be operated unless vented to functioning baghouse under valid District permit C000513.

2. The owner / operator shall operate this equipment in strict accord with the manufacturer's specification and/or sound engineering principles.

5. PYROBOR MILLING AND SCREENING BAGHOUSE PERMIT CONDITIONS; PERMIT # C000513:

Flex Kleen model 84 UDC-648 pulse jet with 810 polyester bags of 8586 sq ft area; 4.1:1 air to cloth ratio; gas flow 35600 ACFM @ 17 in w.g.:

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer and/or sound engineering principles.

2. The operating instructions shall be immediately available for use by the operator and provided to District, State or Federal personnel upon request.

3. This baghouse shall be operated concurrently with the equipment under valid District permit B000471 (Pyrobor Milling & Screening).

4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District rules. This program shall include, but not be limited to, monthly opacity readings, pressure differential measurements, and regular maintenance inspections. The results of the observations and inspections shall be logged with the log kept on site for a minimum of five (5) years. This log shall be provided to District, State or Federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every three (3) years starting in 1994 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 18.5 tons per year combined (verified through source tests and Pyrobor process line production records on a rolling twelve month summary basis): C000489, C000509, C000513, C002487.

6. PYROBOR STORAGE SILOS - CONSISTING OF THE FOLLOWING EQUIPMENT; MDAQMD PERMIT # T003968:

Description	Capacity (gallons)
Silo No. 1	64,165
Silo No. 2	64,165
Silo No. 3	58,149
Silo No. 4	506,654
Silo No. 5	78,200
Silo No. 6	463,690

PERMIT CONDITIONS:

1. These silos shall not be operated unless they are vented to the functioning air pollution control equipment covered by valid District permit C000489.

2. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

7. BAGHOUSE SERVING PYROBER SILOS 1-6, STACLEAN MODEL 121-12-A; MDAQMD PERMIT # C000489:

Design air Flow: 6,000 CFM @ 120 degrees F driven by a 15 HP Blower
121 filter bags, 5 7/8 in. diameter & 12 ft. long, total cloth area is 2233 sq ft
Air to cloth ratio - 2.7 to 1
Inlet conditions - 51.6 gr/dscf concentration & 2,653 lb/hr mass loading
Outlet conditions - less than 0.1 gr/dscf concentration & less than 3 lb/hr mass emission:

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer and/or sound engineering principles.

2. The operating instructions shall be immediately available for use by the operator and provided to District, State or Federal personnel upon request.

3. This baghouse shall be operated concurrently with the equipment under valid District permit T003968 (Pyrobor Storage Silos).

4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District rules. This program shall include, but not be limited to, monthly opacity readings, pressure differential measurements, and regular maintenance inspections. The results of the observations and inspections shall be logged with the log kept on site for a minimum of five (5) years. This log shall be provided to District, State or Federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 1998 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 18.5 tons per year combined (verified through source tests and Pyrobor process line production records on a rolling twelve month summary basis): C000489, C000509, C000513, C002487.

8. PYROBOR BULK LOADOUT FACILITY - CONSISTING OF THE FOLLOWING EQUIPMENT AND PERMIT CONDITIONS; MDAQMD PERMIT # B000467:

DESCRIPTION CAPACITY:
Elevator, Reclaim, Stephens - Adamson
Bucket Elevator - 55' 0" C to C, 8 hp
Conveyor, Belt - Bulk Loadout, 10 hp
Conveyor, Reclaim, 5 hp
Screen, Scalping, 1 hp

PERMIT CONDITIONS:

1. This equipment shall not be operated unless vented to functioning baghouse under valid District Permits C000509.

9. PYROBOR BULK LOADOUT FACILITY BAGHOUSE CONDITIONS; MDAQMD PERMIT # C000509:

Ultra Ind. Inc., Model No. SWQ-288-12 ARR III:

Capacity / Description:
Air flow: 22,200 acfm
Filter area: 4,072 sq. ft.
Maximum operating Temperature: 200 deg F.
Air/Cloth ratio: 5.45 : 1
Exhaust fan: Buffalo Forge Co., 60 hp motor, 1089 rpm, 22,000 acfm.
Ancillary equipment: Two (2) screw motors, 1.5 hp each; one (1) star valve, 1.5 hp.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with the recommendations of the manufacturer and/or sound engineering principles.

2. The operating instructions shall be immediately available for use by the operator and provided to District, State or Federal personnel upon request.

3. This baghouse shall be operated concurrently with the equipment under valid District permit B000467 (Pyro Bulk Loadout Facility).

4. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District rules. This program shall include, but not be limited to, monthly opacity readings, pressure differential measurements, and regular maintenance inspections. The results of the observations and inspections shall be logged with the log kept on site for a minimum of five (5) years. This log shall be provided to District, State or Federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 1994 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 18.5 tons per year combined (verified through source tests and Pyrobor process line production records on a rolling twelve month summary basis): C000489, C000509, C000513, C002487.

10. BORAX DRYER NO. 1 - CONSISTING OF THE FOLLOWING EQUIPMENT AND PERMIT CONDITIONS; MDAQMD PERMIT # B000452:

DESCRIPTION / CAPACITY:
Link Belt Bucket Elevator, 7.5 hp
Standard Steel Co. Dryer, 20 hp

Drayer-Hanson Steam unit heater with Maxon Linoflame Gas Burner with Ventite Pilot Assembly, 0.445 million Btu/hr
Alameda Tank Co. Dryer, 20 hp
Dryer-Hanson Steam unit heater
Feed Bin, 345 cubic feet
Rex Carrier Vibrating Feeder, Model Ftp-24120, Twin Drive; 3 hp
Screw Conveyor common to #'s 1 & 2, 5 hp

PERMIT CONDITIONS:

1. This equipment shall not be operated unless vented to functioning scrubber under valid District permit number C000546.

11. BORAX DRYER #2 - CONSISTING OF THE FOLLOWING EQUIPMENT AND PERMIT CONDITIONS; MDAQMD PERMIT # B000453:

CAPACITY DESCRIPTION:
DRYER, Consolidated Western Steel, 5'6" ID x 40'
Heater, Drayer- Hanson steam unit heater, with Maxon Linoflame Gas Burner with Ventite Pilot Assembly, 0.445 million Btu/hr
Forced Draft Fan, American Standard Centrifugal Fan,Type HS, Size182, 4990 cfm @ 2.3 SP @ 1750rpm
Dryer, Standard Steel Co., 5'6" ID x 40'
Drayer – Hanson Steam Unit Heater
Conveyor, Rex Carrier Vibrating Feeder, Model FTP-24120, Twin Drive
Conveyor, 9"dia x 11'7" screw conveyor common to # 1 & # 2

PERMIT CONDITIONS:

1. This equipment shall not be operated unless vented to functioning scrubber under valid District permit C000546.
   NOTE: Rating: 0.445 Million Btu/hr [43 hp x 2550 Btu/hr/hp] = 0.6 million Btu/hr.

12. SCRUBBER SERVING BORAX DRYERS NO. 1 and NO. 2; MDAQMD PERMIT # C000546:

Ducon Multivane, Size 84, Model IV, Type L, 7' dia. x 20'; Scrubbing Liquor Pump, 7.5 hp; and Exhaust Fan 100 hp:

PERMIT CONDITIONS:

1. This equipment shall only be operated/maintained in strict accord with manufacturer's/supplier's recommendations and sound engineering principles.

2. This scrubber shall be functioning whenever the Borax Dryers covered by District permit C000452 and C000453 are operating.

3. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every three [3] years starting in 1994 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in

those years applicable.

13. BORAX SCREENING; MDAQMD PERMIT # B000490- Consisting of the following equipment ;:

BORAX SCREENING OPERATION - Consisting of the following equipment:

Capacity	Equipment Description
5.0	Conveyor, feed
2.0	Pan Conveyor, feed
2.0	Hummer Screen
3.0	Rotex Screen
1.5	Derrick Screen, Model F36-126D-3DD
5.0	Screen discharge screw, production
5.0	Screen discharge screw, oversize
23.5	

PERMIT CONDITIONS:

1. This equipment shall not be operated unless Baghouse permitted on District permit C000488 is in place and functioning.

2. This equipment shall be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

14. BORAX SCREENING BAGHOUSE EQUIPMENT DESCRIPTION;; MDAQMD PERMIT # C000488:

Sly Dust Collector, Model 24A converted to sock type using Mikro Pulsaire, Model 432 K-8-TRH, "A" Style Special Design.

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall operate concurrently with the Borax Screening Equipment under valid District permit B000490.

4. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every five (5) years starting in 1990 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

15. BORAX BULK LOADOUT; MDAQMD PERMIT # B000466;- Consisting of the following equipment;:

CAPACITY DESCRIPTION:
Conveyor, 18" x 100', 2 5/8" C to C belt conveyor, 3 hp
Conveyor, 18" x 67', 8 15/16" C to C belt conveyor, 3 hp
Product Elevator, 10 hp

PERMIT CONDITIONS:
1. This equipment shall not be operated unless vented to functioning baghouse under valid District permit C000508 and C000518.

16. BORAX BULK LOADOUT BAGHOUSE; MDAQMD PERMIT # C000508; consisting of the following equipment:

W.W. Sly Co., #12A Dynaclone Dust Collector, Bag Type, SN H5635A:

PERMIT CONDITIONS:
1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall operate concurrently with the Borax Sacking/Bulk Loadout equipment under valid District permit B000466.

4. The owner/operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensure compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every five (5) years starting in 1994 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

17. BORAX SHIPPING ELEVATOR BAGHOUSE; MDAQMD PERMIT # C000518; consisting of the following equipment:

Sly Dust Collector, Model 24A converted to a sock type using Mikro Pulsair, Model 432

K-8-TRH, "A" Style Special Design:

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall be operated concurrently with the Borax Sacking/Bulk Loadout equipment under valid District permit B000466.

4. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

5. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

18. BORIC ACID DRYER & PRODUCT TRANSFER/STORAGE EQUIPMENT; MDAQMD PERMIT # B000480; consisting of the following equipment:

The rating for this equipment is calculated assuming one horsepower is equivalent to 2550 Btu.

Capacity / Description
0.1 Dryer Forced Draft Fan (2 hp)
24.2 Dryer (2.42 million Btu/hr)
0.1 Gas Burner Fan (5 hp)
0.1 Redler Conveyor (5 hp)
0.0 Dryer Cyclone Airlock (1 hp)
0.1 Production Belt (2 hp)
0.0 Scalper Screen (1 hp)
0.1 Reject Redler (2 hp)
Two Airlocks (N-59 and N-60)
0.1 Heat Exchanger Cooling Water Pump (5 hp)
0.0 Heat Exchanger level Control Actuator (1 hp)

PERMIT CONDITIONS:

1. The dryer shall be operated concurrently with the control equipment covered by valid District permits C000516 and C001978.

2. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

3. The owner/operator shall operate the baghouse C001761 concurrently with the N-59 & N-60 airlocks of the Boric Acid process train.

19. <u>BORIC ACID SCRUBBER; MDAQMD PERMIT # C000516; consisting of the following equipment:</u>
DUCON, MULTIVANE, SIZE 58, 56" DIA. X 15' H, W/ ROBINSON ID FAN, 75 HP & 12,000 CFM @ 1,140 RPM, 14.5" WC, OPERATING AT AN INLET TEMPERATURE OF APPROXIMATELY 170-220 F

<u>PERMIT CONDITIONS:</u>

1. This scrubber shall be functioning whenever the Boric Acid Process covered by District permit B000480 is operating.

2. The owner/operator (o/o) shall operate this control equipment in strict accord with the manufacturer's specification and/or sound engineering principles.

3. The o/o shall conduct periodic compliance tests relative to District Rules 404 and 405, and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall also be conducted for NOx, SOx and VOC. Initial testing shall be conducted within 180 days after the Boric Acid Production increase modifications are complete. Initial test results shall be submitted to the District no later than 90 days after test completion. Thereafter, testing shall be performed once every three (3) years. Those test results shall be submitted to the District no later than six (6) weeks prior to the expiration date of this permit in those years applicable.

4. The combined emissions from this equipment, and the equipment permitted by valid District permits; C001685, C001761, and C001978, shall not emit PM-10 (at a 0.85 fraction of TSP) in excess of 2.62 tons per year. Verification shall be accomplished through source tests and Boric Acid process line production records on a rolling twelve-month summary basis.

5. Emissions from this device shall not exceed the following maximum amounts. Verification shall be accomplished through source tests and Boric Acid process line production records on a rolling twelve month summary basis.
   a. NOx: 1.35 tons/year
   b. SOx: 0.20 tons/year
   c. VOC: 0.15 tons/year

20. <u>BAGHOUSE (BORIC ACID DRYER CONVEYOR ROOM AND PRODUCT COOLER; MDAQMD PERMIT # C001978; consisting of the following equipment:</u>
D.L.C. BAGHOUSE, MODEL NO. DCVB-1526, WITH 250 SQ. FT. OF BAGS SERVED BY A 5 HP@ 1800 RPM FAN MOTOR GENERATING 1250 CFM@6" S.P., OPERATING AT AMBIENT TEMPERATURE, SERVING THE BORIC ACID DRYER CONVEYOR ROOM AND BORIC ACID PRODUCT COOLER.

PERMIT 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.

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.

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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request.

4. The o/o shall conduct periodic compliance tests relative to District Rules 404 and 405, and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Initial testing shall be conducted within 180 days after the Boric Acid Production increase modifications are complete. Initial test results shall be submitted to the District no later than 90 days after test completion. Thereafter, testing shall be performed once every five (5) years, and those test results shall be submitted to the District no later than six (6) weeks prior to the expiration date of this permit in those years applicable.

5. The combined emissions from this equipment, and the equipment permitted by valid District permits; C000516, C001685, and C001761, shall not emit PM-10 (at a 0.85 fraction of TSP) in excess of 2.62 tons per year. Verification shall be accomplished through source tests and Boric Acid process line production records on a rolling twelve-month summary basis.

21. BAGHOUSE, BORIC ACID LOADOUT; MDAQMD PERMIT # C001761;
DLC DUST COLLECTOR, MODEL 5-250-25-84S, W/ 20 HP ID FAN, 0.75 HP STAR VALVE TYPE AIR LOCK, OPERATING AT AMBIENT TEMPERATURE.

PERMIT CONDITIONS:

1. The owner/operator (o/o) shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV. [BACT]

2. The o/o shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations to ensure compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request.

3. This Baghouse shall be in operation at all times the Boric Acid Loadout/Bagging Facility (B001760), the N-59 and N-60 airlocks (B000480) and the Boric Acid Silo (T002133)

are in operation. The operating instructions shall be immediately available for use by the operator and be provided to District personnel upon request.

4. The o/o shall conduct periodic compliance tests relative to District Rules 404 and 405, and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Initial testing shall be conducted within 180 days after the Boric Acid Production increase modifications are complete. Initial test results shall be submitted to the District no later than 90 days after test completion. Thereafter, testing shall be performed once every five (5) years, and those test results shall be submitted to the District no later than six (6) weeks prior to the expiration date of this permit in those years applicable.

5. The combined emissions from this equipment, and the equipment permitted by valid District permits; C000516, C001685, and C001978, shall not emit PM-10 (at a 0.85 fraction of TSP) in excess of 2.62 tons per year. Verification shall be accomplished through source tests and Boric Acid process line production records on a rolling twelve-month summary basis.

22. <u>BAGHOUSE, BORIC ACID STORAGE; MDAQMD PERMIT # C001685; Consisting of the following equipment;</u>
AEROPULSE, MODEL PR-16-10-H, 16 BAGS, EA 4 1/2" DIA X 10' LONG, 188.5 SQ FT AREA, A/C RATIO 5.2 TO 1 @ 1000 ACFM, 0.5HP STAR VALVE & 2.0HP SCREW CONVEYOR WITH 5.0 HP EXHAUST FAN, OPERATING AT AMBIENT TEMPERATURE.

<u>PERMIT CONDITIONS:</u>

1. The owner/operator (o/o) shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District personnel upon request.

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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District personnel on request.

4. The o/o shall conduct periodic compliance tests relative to District Rules 404 and 405, and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Initial testing shall be conducted within 180 days after the Boric Acid Production increase modifications are complete. Initial test results shall be submitted to the District no later than 90 days after test completion. Thereafter, testing shall be performed once every five (5) years, and those test results shall be submitted to the District no later than six (6) weeks prior to the expiration date of this permit in those years applicable.

5. The combined emissions from this equipment, and the equipment permitted by valid District permits; C000516, C001761, and C001978, shall not emit PM-10 (at a 0.85 fraction of TSP) in excess of 2.62 tons per year. Verification shall be accomplished through source tests and Boric Acid process line production records on a rolling twelve-month summary basis.

23. BORIC ACID LOADOUT AND SACKING EQUIPMENT; MDAQMD PERMIT # B001760; Consisting of the following equipment:

Capacity	Equipment Name	Order
75.00	Boric Acid Mill	0
2.50	Feeder	1
3.00	Recycle Screen Conveyor	2
5.00	Elevator	3
7.50	Crusher	4
5.00	Screw Conveyor to Elevator	5
10.00	Conveyor, Redler inclined	6
3.00	Screen	7
5.00	Sacking Station	8
10.00	Elevator	9
2.00	Loadout Spout	10

PERMIT CONDITIONS:

1. This equipment shall not be operated unless the Baghouse permitted on District permit C001761 is in place and functioning.

2. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

24. BORIC ACID STORAGE SILO ; MDAQMD PERMIT # T002133; Consisting of the following equipment:

38,500 Gallon tank with direct loadout to railcars; 2 hp Vibrator, 5 hp Screw Motor, 2 Loadout Movers @ 0.75 hp each:

PERMIT CONDITIONS:

1. Transfer of materials to or from this tank shall not be attempted unless the appropriate functional particulate removal system (District permit C001761) is concurrently operated.

2. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

25. CARBON REGENERATION FURNACE, HERRSCHOFF; MDAQMD PERMIT # B001757; Consisting of the following equipment;

Carbon Regeneration for Boric Acid Process, four (4) Eclipse Combustion Burners, Type 624 PM, each rated @ 550,000 Btu/hr max output for a total of 2.2 million Btu/hr:

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

26. LIQUID/LIQUID EXTRACTION PROCESS (LLX); MDAQMD PERMIT # B001916:

Recovers the boron fraction from lake brine for conversion to boric acid. The process consists of a series of mixers and settlers. The loading mixers provide for the contact of brine, a proprietary organic reactant (P-20) and kerosene for specified times. Outputs from the LLX Basin include boric acid solution and partially depleted brine. The unit is equipped with Induced Gas Flotation Units (Wemcos) to strip residual kerosene from the partially depleted brine before it is returned to Searles Lake. Kerosene stripping is increased by the introduction of 40 psig plant steam into the Wemcos. A vapor collection system is connected to the process settlers and the Wemcos, which conveys the vapors to Boilers 25 & 26 for combustion:

PERMIT CONDITIONS:

1. The daily loss of kerosene (as NMHC) to the atmosphere due to evaporation shall not exceed 485.6 pounds per day.
   a. The Flotation/Air Strip Project (F/ASP) will collect the vapors from the settlers and the Induced Gas Flotation Units (Wemcos) and they will be conveyed to the Argus boilers (25 & 26) for combustion except when operating in accordance with Conditions 7a. or 7b.
   b. The Wemcos will remove kerosene from the effluent for recycling before it is returned to the Searles Lake.
   c. Therefore, the loss of kerosene due to evaporation is that amount contained in the effluent and returned to the settling ponds on the Searles Lake.
   d. For purposes of permit conditions, kerosene shall be estimated to be 100 percent NMHC.

2. The F/ASP requires that negative pressure be maintained on the LLX basin settlers. The minimum vacuum shall be 0.2" wc.
   a. Magnahelic gauges or manometers (Max. range of 1" wc) shall be installed on all of the settler vacuum pickup lines. Operators shall record readings from these gauges for each shift of operation.
   b. The gas flow rate from the LLX basin to the boilers shall be maintained above 5000 cfm. Operators shall record this flow rate for each shift of operation. The minimum required flow rate of 5000 cfm should be indicated on the log sheet, for reference by the operators.
   c. All inspection doors and covers on the air stripping and gas collection system shall be kept closed, except during essential maintenance.
   d. The seals on the loading mixer launders and the inspection doors, plus the covers on the air stripping and gas collection system shall be inspected on a monthly

basis to ensure that they are maintained in good working condition. A log sheet of the monthly inspection shall be maintained.

e. The containment pit surrounding the LLX basin shall be properly maintained such that any spills or leaks can be readily detected.

3. A daily composite of spent brine being returned to the Searles Lake shall be collected and analyzed for concentration of kerosene. The composite shall contain a minimum of one sample taken during each shift and USEPA Method 8015 shall be used for the analyses.

4. If any kerosene other than Calumet 142, EXXSOL D 60 or Shell Solvent 142 HT is to be used in this process, prior written approval from the District shall be obtained.

5. The amount of kerosene being sent to the Searles Lake shall be collected and analyzed for concentration determined in item 3 above and the flow rate of the effluent entering the LLX Basin. If the maximum allowable daily loss is exceeded, the District Compliance Supervisor shall be notified not later than the day following the exceedance.

6. Logs shall be maintained which include but are not limited to the following:
   a. The readings from the Magnahelic gauges or manometers per item 2a above.
   b. The gas flow rates from the Basin to the Boilers per item 2b above.
   c. Results of monthly inspection of seals and covers per item 3 above.
   d. Results of daily analyses for the kerosene concentration per item 3 above.
   e. The daily flow of the effluent into the Wemcos.
   f. The daily amount of kerosene in pounds being sent to Searles Lake.
   g. Daily estimated emissions of VOC into the atmosphere from all equipment covered by this permit.

   This information shall be maintained on site for a minimum of five (5) years and be provided to District, state or federal personnel upon request.

7. The vapors are collected in accordance with Condition 1a may be vented to the atmosphere:
   a. When both boilers 25 & 26 have a planned outage at the same time. The District must be notified in writing of the scheduled outage 30 days in advance. The owner / operator shall state what the facilities expected emissions will be while under this mode of operation.
   b. When there is an emergency shutdown of both boilers 25 and 26 at the same time. The District is to be notified per Rule 430 of the breakdown. The owner / operator is to notify the District in writing within ten (10) working days after normal operation is resumed giving the net effect upon emissions while in this mode of operation.

8. NMHC emitted to the atmosphere from this equipment, when added to the NMHC emissions from Boiler No. 25 (B000555) and Boiler No. 26 (B000554), shall not exceed 773.6 pounds per day.

27. <u>CRUD TREATMENT; MDAQMD PERMIT # C002465:</u>

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

2. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit was issued unless noted otherwise.

3. The owner / operator shall maintain a record of repairs and maintenance on this equipment and submit it to the District, state or federal personnel upon request. The record shall be retained for a minimum period of five (5) years.

28. P-20 MANUFACTURING, LLX BASIN; MDAQMD PERMIT # B001758; consisting of the following:

A proprietary and confidential chemical process. A copy of the process is on file at the District. The process includes numerous tanks, 12 electric motors for pumps and agitators. Total rating: 90.0 hp:

PERMIT CONDITIONS:

1. This equipment shall not be operated unless the off gas scrubber permitted on District permit C001759 is operating.

2. This equipment shall be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

29. SCRUBBER, OFF GAS, P-20 MFG., LLX BASIN; MDAQMD PERMIT # C001759; consisting of the following:

Stack, 6" diameter & 31' high, flow rate 67 acfm, velocity 5.7 ft/sec, @ 63 degrees F, 1.5 hp pump and 1 hp fan:

PERMIT CONDITIONS:

1. This scrubber is to be functioning any time the P-20 manufacturing facility permitted with the District permit B001758 is operating.

2. The owner / operator shall operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

3. This equipment does not require a regularly scheduled emission compliance test. However, emissions compliance testing may be required at the discretion of the District.

30. BORIC OXIDE PLANT; MDAQMD PERMIT # B003343: Consisting of the **following equipment:**

Capacity	Description
	Hopper
3.0	Furnace Feed Screw
	Furnace & Hot Gas Duct, 3 million Btu/hr

3.0	F D Fan
2.0	Chill Rolls
5.0	Vibrating Conveyor
5.0	Grinder
	Magnet, permanent
2.0	Glass Elevator
0.5	Sweco screen
	Bagging Station
2.0	Lifting motor
0.33	Grinder feeder
10	Grinder

27.8333 HP Total

PERMIT CONDITIONS:

1. The Boric Oxide Plant shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permit C003344.

2. This equipment shall only be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

3. In the event that visible dusting is observed from the new (finer Material) grinder, the District shall require that new equipment be appropriately ducted to the existing venturi scrubber (C003344) serving Boric Oxide Plant.

31. CONVEYOR, MOBILE; MDAQMD PERMIT # B003430; consisting of the following:

A transloading conveyor manufactured by Yuba City Steel, Serial Number 114158, open, 35' long with a Honda 18 hp gasoline power source, Model 18S.

PERMIT CONDITIONS:

1. The o/o shall operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

32. SCRUBBER, BORIC OXIDE VENTURI; MDAQMD PERMIT # C003344; consisting of the following:

15 hp pump; 25 hp fan, operating @ 1500fpm & 3000 acfm; 20" diameter & 45' high stack @ 120 degrees F:

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This scrubber shall operate concurrently with the Boric Oxide Plant operating under valid District permit B003343.

4. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every three (3) years starting in 1993 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

33. CONVEYOR, TRANSLOADING; MDAQMD PERMIT # B004762; consisting of the following:
Wilson Mfg. And Design, Model 219, SN 9961122-131; design loading rate: 85 tons/hr.

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

2. The owner / operator shall install and maintain instruments which allow measurements of the pressure differential across the bags. The owner / operator shall only operate this equipment when the pressure differential is in the range specified by the manufacturer / supplier.

3. The owner / operator shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.

4. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit was issued unless noted otherwise.

5. The owner / operator shall not operate this equipment in violation of District Rules 401, 402, and 403 nor any time the baghouse is nonoperational.

34. CONSOLIDATED PACKAGING & WAREHOUSING FACILITY; MDAQMD PERMIT # B003655; consisting of the following:

PERMIT CONDITIONS:

1. This Consolidated Packaging & Warehouse Facility shall not be operated unless it is vented to a functioning air pollution control equipment permitted under District permit C003656.

2. The owner / operator shall operate this equipment in strict accord with the recommendations of the manufacturer and/or sound engineering practices.

35. <u>BAGHOUSE, CONSOLIDATED PACKAGING & WAREHOUSE; MDAQMD PERMIT # C003656; consisting of the following:</u>

Mikro Pulsaire, Model 144S-10-20:

<u>PERMIT CONDITIONS:</u>

1. The owner / operator shall operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall operate concurrently with the Consolidated Packaging & Warehouse Facility under valid District permit B003655.

4. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every five (5) years starting in 1994 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable. [40 CFR 60.8 and 60.675]

6. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity [40 CFR 60.672(a)(2)]

36. <u>STORAGE AREA, SODA ASH; MDAQMD PERMIT # T003427; consisting of the following:</u>

<u>Building 6; 900 ton (224,000 gal) capacity:</u>

<u>PERMIT CONDITIONS:</u>

1. This equipment shall only be operated/maintained in strict accord with manufacturer's/supplier's recommendations and sound engineering principles.

2. This storage area, including stockout and reclaim systems, shall not be operated unless it is vented to the operating APCS covered by District permit C003428.

37. <u>BAGHOUSE, SODA ASH STORAGE BLDG # 6; MDAQMD PERMIT # C003428;</u>

consisting of the following:
Mikro-Pulsaire, 10,000 cfm w/ 144 bags, 10' x 4.5", air/cloth ratio 5.9:1; 40 hp fan w/stack 1.8' diameter & 13.5' high; 3 hp air compressor and 0.75 hp rotary valve; 2 hp motor on screw conveyor; located in Bldg. #6 (Soda Ash Storage):

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles.

2. The owner / operator shall maintain a record of repairs and maintenance on this equipment and submitted to District, state or federal personnel upon request. The record shall be retained for a minimum period of five (5) years.

3. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of the District Regulation IV.

4. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

5. This baghouse shall not discharge into the atmosphere an exhaust stream that exhibits greater than seven percent opacity [40 CFR 60.672(a)(2)]

38. SALT CRUSHING AND LOADING EQUIPMENT; MDAQMD PERMIT #B008672; consisting of the following::
equipment rated at 100 tons per hour.

	Salt Receiving Hopper
10.0	Screen Feed Conveyor
20.0	Salt Screen
75.0	Crusher
7.5	Crusher Discharge Conveyor
7.5	Screen Undersize Discharge Conveyor
7.5	Screen Oversize Discharge Conveyor
7.5	Fines Stockpile Conveyor
	Truck Loadout Spout
142.5	(total rating in horsepower)

PERMIT CONDITIONS

1. The owner/operator (o/o) shall maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of air contaminants.

2. This equipment shall not process more than 500,000 tons per year of material.

3. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State and/or Federal personnel

upon request:
a. Monthly crusher and transfer/fugitive emission point observation data and result (using USEPA Method 22, and USEPA Method 9 if necessary);
b. Monthly and cumulative annual production in tons; and,
c. Date and nature of any system repairs.

4. This equipment shall be operated in compliance with 40 CFR 60 Subpart OOO - Standard of Performance for Nonmetallic Mineral Processing Plants.

5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
a. Crusher - fifteen percent (40 CFR 60.672(c))
b. Transfer into initial feed hopper - twenty percent (Rule 401)
c. All other transfer points and fugitive emission points - ten percent (40 CFR 60.672(b))

39. <u>SALT CRUSHING EQUIPMENT; MDAQMD PERMIT # B003955; consisting of the following::</u>

<u>PERMIT CONDITIONS:</u>

1. The owner/operator (o/o) shall comply with all District Rules and Regulations including, but not limited to, malfunction/breakdown notifications.

2. Materials processed shall contain sufficient natural and/or added moisture to ensure compliance with District rules, such as, but not limited to 401, 402, and 403. Sufficient water and equipment to properly wet the material being processed shall be maintained in operable condition and used as necessary to ensure compliance.

5. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than the following opacity:
a. Crusher - fifteen percent (40 CFR 60.672(c))
b. Transfer into initial feed hopper - twenty percent (Rule 401)
c. All other transfer points and fugitive emission points - ten percent (40 CFR 60.672(b))

40. [RESERVED]

41. <u>BOILER NO. 22; MDAQMD PERMIT # M000483; consisting of the following::</u>

Babcock and Wilcox, Type PF1-28'10"-16, Natural gas with fuel oil backup, heating surface 17,900 sq. ft., 300,000 lb/hr steam capacity @ 550 psig @ 760 degrees F, with four (4) 27" Babcock and Wilcox combination gas and oil burners rated at 418 million Btu/hr; forced draft Westinghouse fan, size 2371-D, style AKY-4655-2, driven by Elliot turbine drive, type 2BYRO, 750 bhp, inlet pressure 400 psig, outlet pressure 35 psig steam:

Date of manufacture is pre-1960.

PERMIT CONDITIONS:

1. This Boiler shall be fired under the following conditions:
   a. The boiler shall not emit NOx emissions in excess of 62 ton per year, except under the operating condition specified in item b below.
   b. During maintenance and repair of Boiler 25 and/or Boiler 26; Boiler 22 operating hours when either Boiler 25 or Boiler 26 or both are not operating, the above Boiler 22 annual NOx emission limit shall not apply, but the sum of Boiler 22 and either Boiler 25 or Boiler 26 emission will be subject to the existing Boiler 25 and Boiler 26 combined hourly limit of 442 lb/hour NOx.
   [District Rule 1303]

2. To demonstrate compliance with Condition 1 above, records of Boiler 22 operating hours and firing rate will be kept (using a fuel rate meter and hour meter), separately reporting operating hours and total MMBtu fired where Boiler 22 operated in parallel with Boiler 25 and Boiler 26 and operating hours and total MMBtu fired where Boiler 22 operated when either Boiler 25, Boiler 26, or both were shut down for maintenance or repair.
   [District Rule 1303]

3. Reports of annual NOx emission totals for Boiler 22 under each of the two operating conditions (operating in parallel with Boiler 25 and Boiler 26 versus operating when either Boiler 25, Boiler 26 or both are shutdown for maintenance or repair) will be submitted to MDAQMD upon request.
   [District Rule 1303]

4. Annual compliance testing is not required for this equipment. However, compliance testing may be required at the discretion of the District. The emissions calculations shall be based on a compliance test performed on this equipment on March 12, 1991 for NO_x, SO_x, and CO.
   [NSR]

5. A log showing the fuel use for this shall be maintained on site for five (5) years and made available to District, state or federal personnel upon request.

6. This equipment shall only use pipeline quality natural gas as the primary fuel, except that CARB diesel fuel can be burned only during periods of natural gas curtailment, gas supply interruptions, startups, or for periodic testing. Periodic testing on liquid fuel shall not exceed a combined total of 48 hours during any calendar year.
   [District Rule 431; 40 CFR Part 63 Subpart JJJJJJ]

TRONA FACILITY WASTE OIL STORAGE, PAINT SPRAY EQUIPMENT:

42. 1000 GALLON ABOVEGROUND WASTE CRANKCASE OIL STORAGE TANK, LOCATED AT LAKE GARAGE; MDAQMD PERMIT # T002236:

PERMIT CONDITIONS:

1. This tank is limited to storing IC engine waste oil generated on-site by SWM. No

hazardous or toxic materials other than internal combustion engine crankcase drainage oil may be stored in this tank. [Rule 463]

2. Owner/Operator shall keep data for all shipments of oil to other parties. This data shall contain the mass (or volume) throughput for District emission inventory purposes. [Rule 463]

3. Owner/Operator shall maintain and keep data for a minimum of five (5) years and provide it to District, state or federal personnel on request.

43. PAINT SPRAY GUNS; MDAQMD PERMIT #s P005350 (DeVilbiss, FLG-670 HVLP, SN 1) & P005206 (DeVilbiss, FLGBinks Mach 1 HVLP, Serial No 12):

PERMIT CONDITIONS:

1. All coatings, diluents, thinners, solvents and methods of application shall comply with MDAQMD Rules 1113, 1114, 1115, 1116, and 442. Owner/Operator shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced to the levels allowed in Rule 442.
[Rule 442]

2. A daily log shall be maintained of the VOC emissions from this operation which contains at least the following items:
i. Equipment used to apply coating
ii. Type of coating used and its VOC limit under the applicable Rule
iii. Quantity of coating used and its VOC content
iv. Total VOCs generated by ii and iii above if covered; and
v. Type of material being coated.
[Rules 1113, 1114, 1115, 1116, and 442]

3. A daily record of usage for both photochemically and non-photochemically reactive solvents, diluents, thinners, reducers, cleaners, etc., which includes quantity and description, shall be maintained on-site. Note: The daily log information provides a basis for the Toxic Emission Inventory required by AB2588. *Note 2: photochemically reactive solvents not allowed per District permit condition.*
[Rules 1113, 1114, 1115, 1116, and 442]

4. This data shall be kept current, on-site for a minimum of five (5) years and provided to MDAQMD, state, or federal personnel on request. [Rule 1203 (D)(1)(d)(ii)]

5. The owner/operator shall operate equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which will produce the minimum emission of air contaminants. Spray equipment shall be given unique identification marks attached thereto prior to use under this permit.

6. No photochemically reactive portion of the coating is permitted. This includes the coating as purchased and any solvents which may be used as diluent, thinner, reducer or cleaner.

[Rule 1203 (D)(1)(d)(i)]

7. This gun may be operated outside of the main areas of operation and/or a spray booth. [NSR]

TRONA FACILITY DIESEL ENGINE DRIVEN GENERATOR, PUMP, AND COMPRESSOR EQUIPMENT; GASOLINE ENGINE DRIVEN PUMP:

44. DIESEL IC ENGINE, EMERGENCY STANDBY ENGINE; MDAQMD PERMIT # E003522; consisting of:
Caterpillar, Model No. 3412, 750 BHP @ 2100 rpm, Serial # 38S13128:

PERMIT CONDITIONS:

1. This emergency, stationary, compression-ignited, internal combustion engine and after-treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR 63.6625(e) - Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines]

2. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect. [40 CFR Subsection 63.6640 (f)(1)(ii)]

3. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [Rule 204;17 CCR 93115]

4. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [40 CFR 63.6604; Rule 431]

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [40 CFR 63.6625(f)]

6. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted, or when the Elliot turbine drive is inoperative as it provides alternative power to the draft fan. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance [Rule 204; 40 CFR

63.6640(f)(1)(ii)]

7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,
d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log) [17CCR 93115].
e. Records of the occurrence and duration of each malfunction of operation of equipment, including air pollution control and monitoring equipment, the maintenance performed during these malfunctions, and the corrective actions taken to minimize emissions and restore malfunctioning processes and air pollution control and monitoring equipment to its normal operation [40 CFR 63.6655(a)]; and,
f. Maintenance performed on this equipment, inclusive of the requirements of 40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as listed below.
[Rule 204; 40 CFR Part 63 Subpart ZZZZ; 17 CCR 93115, ATCM for Stationary Compression Engines]

8. Owner/operator must meet the following requirements;
a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement.
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary; and
d. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
[40 CFR Subsection 63.6603, table 2d]

9. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 63, Subpart ZZZZ (NESHAP). In the event of conflict between these conditions and the ATCM or NESHAP, the more stringent requirements shall govern.

45. [RESERVED]

46. <u>DIESEL IC ENGINE, EMERGENCY FIRE PUMP; MDAQMD PERMIT # E004553; consisting of:</u>
Mfg unknown, powered by 8 cyl Detroit Diesel, Model 70847010-8V71, SN 8VA385527, rated @ 305 hp @ 2100 rpm. (SWM# S2906)

PERMIT CONDITIONS:

1. This emergency, stationary, compression-ignited, internal combustion engine and after-treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR 63.6625(e) - Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines]

2. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [40 CFR 63.6604; Rule 431]
3. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 30 hours per year for testing and maintenance. [Rule 204; 40 CFR 63.6640(f)(1)(ii)]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [40 CFR 63.6625(f)]

5. The annual hour limit can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled IC engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition. [Title 17 CCR 93115(c)16]

6. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
   a. Date of each use and duration of each use (in hours);
   b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
   c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,
   d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log) [17CCR 93115].
   e. Records of the occurrence and duration of each malfunction of operation of equipment, including air pollution control and monitoring equipment, the maintenance performed during these malfunctions, and the corrective actions taken to minimize emissions and restore malfunctioning processes and air pollution control and monitoring equipment to its normal operation [40 CFR 63.6655(a)]; and,
   f. Maintenance performed on this equipment, inclusive of the requirements of 40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as listed below.

[Rule 204; 40 CFR Part 63 Subpart ZZZZ]

8. Owner/operator must meet the following requirements;
a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement.
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comers first;
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary; and
d. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
[40 CFR 63.6603, table 2d]

9. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 63, Subpart ZZZZ (NESHAP). In the event of conflict between these conditions and the ATCM or NESHAP, the more stringent requirements shall govern.

47. DIESEL IC ENGINE, PORTABLE COMPRESSOR (UTILITY); MDAQMD PERMIT # B004554; consisting of:
SVM# K0639, Y.O.M is 1999, EPA Tier 1, EPA Family Name XJDXL06.8014, CARB EO U-R-004-0044 w/ PM10 Certification level 0.21 g/bhp-hr, John Deere, Diesel, Compressor, Model # 4045TF150A, 4 cylinders, Direct Injected, Turbo Charged, 115 bhp @2400rpm, Serial No. T0405T829910

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. This diesel ICE and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.)

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% or 15 ppm on a weight per weight basis per CARB Diesel or equivalent requirements.
[Title 17 CCR Section 93116.3(a); Rule 431]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information

specified below:
a. Calendar year operation in terms of operating location, fuel consumption (in gallons) and total hours; and,
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

48. DIESEL IC ENGINE, PORTABLE COMPRESSOR (LAKE); MDAQMD PERMIT # B007852; consisting of:
Y.O.M is 2000, EPA Tier 1, EPA Family Name YCPXL14.6MRJ, CARB EO U-R-001-0019 w/ PM 10 Certification level 0.29 g/bhp-hr, SWM# K0640, Caterpillar, Diesel, Compressor, Model # 3406, 8 cylinders, Direct Injected, Turbo Charged, 440 bhp @ 1800rpm, Serial # 3ER05421

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. This diesel ICE and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.)

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% or 15 ppm on a weight per weight basis per CARB Diesel or equivalent requirements. [Title 17 CCR Section 93116.3(a); Rule 431]
4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Calendar year operation in terms of operating location, fuel consumption (in gallons) and total hours; and,
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

49. IC ENGINE EMERGENCY DIESEL GENERATOR (S3047) – POWERING A PUMP; MDAQMD PERMIT # E009159; consisting of:
Deutz, 82 BHP, Diesel, Model # F5L912, 5 cylinders, Direct Injected, 2300 rpm, Serial # 8330532

PERMIT CONDITIONS:

1. This emergency, stationary, compression-ignited, internal combustion engine and after-treatment control device (if any) shall be installed, operated and maintained according to

the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR 63.6625(e) - Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines]

2. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.
[40 CFR 63.6604; Rule 431]

3. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [40 CFR 63.6625(f)]

4. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50 hour per year limit. [Rule 204; 40CFR 63.6640(f)(1)(ii)]

5. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,
d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log) [17CCR 93115].
e. Records of the occurrence and duration of each malfunction of operation of equipment, including air pollution control and monitoring equipment, the maintenance performed during these malfunctions, and the corrective actions taken to minimize emissions and restore malfunctioning processes and air pollution control and monitoring equipment to its normal operation [40 CFR 63.6655(a)]; and,
f. Maintenance performed on this equipment, inclusive of the requirements of 40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as listed below.
[Rule 204; 40 CFR Part 63 Subpart ZZZZ]

6. Owner/operator must meet the following requirements;
a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement.

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary; and
d. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR Subsection 63.6603, table 2d]

7. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 63, Subpart ZZZZ (NESHAP). In the event of conflict between these conditions and the ATCM or NESHAP, the more stringent requirements shall govern.

50. GASOLINE IC ENGINE (P6103), PORTABLE PUMP; MDAQMD PERMIT # B009160; consisting of:
Nissan, 51 BHP, Gasoline, Model # A15, 4 cylinders, Direct Injected, 3600 rpm, Serial # 444834A

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in accordance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants.

3. This unit shall only be fired on CARB formulated gasoline. [Rule 431]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. The o/o shall maintain a log for this unit, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
   a. Date of each use;
   b. Duration of each use, in minutes;
   c. Fuel consumed during each calendar year, in gallons;
   d. Fuel supplier's certification that fuel has CARB approved fuel formulation.

6. This gasoline ICE and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.)

51. DIESEL IC ENGINE (P6072), PORTABLE CONCRETE PUMP; MDAQMD PERMIT # B009161; consisting of:
Yr of Mfg 2000, EPA Tier 1, Engine Family Name YDZXL02.7015, PM emission level

0.69 (from CARB offroad model), Deutz, 75.5 BHP, Diesel, Model # BF4L1011F, 4 cylinders, Direct Injected, Turbo Charged, 2800 rpm, Serial # 00547024

PERMIT CONDITIONS:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. This diesel ICE and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.)

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% or 15 ppm on a weight per weight basis per CARB Diesel or equivalent requirements.
[Title 17 CCR Section 93116.3(a); Rule 431]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Calendar year operation in terms of operating location, fuel consumption (in gallons) and total hours; and,
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

52. [RESERVED]

53. DIESEL IC ENGINE, EMERGENCY GENERATOR (K0652); MDAQMD PERMIT # E009163; consisting of:
Deutz, 99 BHP, Diesel, Model # BF4M1012EC, 4 cylinders, Direct Injected, Turbocharged, 1800 rpm, Serial # 00770821

PERMIT CONDITIONS:

1. This emergency, stationary, compression-ignited, internal combustion engine and after-treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[40 CFR 63.6625(e) - Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines]

2. Engine may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect. [40 CFR 63.6640 (f)(1)(ii)]

3. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier. [Rule 204;17 CCR 93115]

4. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements.
[40 CFR 63.6604; Rule 431]

5. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[40CFR Subsection 63.6625(f)]

6. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 50 hour per year limit.
[Rule 204; 40 CFR 63.6640(f)(1)(ii)]

7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Date of each use and duration of each use (in hours);
b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,
d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log) [17CCR 93115].
e. Records of the occurrence and duration of each malfunction of operation of equipment, including air pollution control and monitoring equipment, the maintenance performed during these malfunctions, and the corrective actions taken to minimize emissions and restore malfunctioning processes and air pollution control and monitoring equipment to its normal operation [40 CFR 63.6655(a)]; and,

f. Maintenance performed on this equipment, inclusive of the requirements of 40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as listed below.
[17 CCR 93115, ATCM for Stationary Compression Engines; 40 CFR Part 63 Subpart ZZZZ]

8. Owner/operator must meet the following requirements;
a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement.
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first;
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary; and
d. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
[40 CFR 63.6603, Table 2d]

9. This unit shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and or similar arrangement(s) with the electrical power supplier. [Rule 204;17 CCR 93115]

10. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 63, Subpart ZZZZ (NESHAP). In the event of conflict between these conditions and the ATCM or NESHAP, the more stringent requirements shall govern.

54. SUPO DRYER; MDAQMD PERMIT B012530; consisting of:

Capacity (hp)	Equipment Description
0	Andritz Fluid Bed Dryer Type HDC 365/1050, 2.5 MMBtu/hr
0	Pre-heater, 0.6 MMBtu/hr
5	Twin shaft mixer conveyor
1.5	Dryer baghouse rotary valve
1.5	Cyclone rotary valve
3	Dryer rotary valve
1.5	Underflow rotary valve
100	Drying supply air fan
3	Grizzly screen
3	Dust air slide conveyor (6” W x 25’-6” L)
6	Air Slide Fanx2
5	Dryer discharge screw conveyor (12" D x 11'-11" L)
15	Dryer Discharge Bucket Elevator (14" X 48" , 94'-6")
0	Cyclone Diverter Valve
0	Dryer Diverter Valve
0.75	Baghouse Rotary Valve

0	Storage Feed Air Conveyor (6” W x 11’ 2” L)
3	Off spec repulper agitator
0	3000 gallon off spec repulper tank
10	Off spec repulper pump

CONDITIONS:

1. This equipment shall not be operated unless vented to functioning baghouses under valid district permits C012532 and C012950. [District Rule 1303]

2. The owner /operator shall operate this equipment in strict accord with the manufacturer’s specification and /or sound engineering principles. [District Rule 204]

55. <u>SUPO TRANSFER AND STORAGE SILOS; MDAQMD PERMIT B012531; consisting of:</u>

Capacity (hp)	Equipment Description
1.5	Product Scale
7.5	Storage Feed Drag Conveyor (15" W X 106' L)
75	Product Reclaim Augers x 3 (11" OD TO 5.5" OD Variable Pitch Tapered Flight)
45	Silo Discharge Screw Conveyors x 3 (18" D X 20' L)
75.75	Reclaim Hydraulic Pumps
	29,567 CU FT Storage Silo (30.77' D X 62.25' Tall, 30 Degree Hopper Slope)
	29,567 CU FT Storage Silo (30.77' D X 62.25' Tall, 30 Degree Hopper Slope)
	29,567 CU FT Storage Silo (30.77' D X 62.25' Tall, 30 Degree Hopper Slope)

CONDITIONS:

1. This equipment shall not be operated unless vented to functioning baghouses/ under valid district permits C012534, C012535, C012950, and C012536. [District Rule 1303]

2. The owner /operator shall operate this equipment in strict accord with the recommendations of the manufacturer and /or sound engineering principles. [District Rule 204]

56. <u>SUPO BULK LOADOUT FACILITY; MDAQMD PERMIT B012533; consisting of:</u>

Capacity (hp)	Equipment Description
25	Product Drag Conveyor (15" W X 81' L & 23' @ 12 DEG. INCLINE)
20	Loadout Transfer Conveyor (15" W X 81' L & 57' @ 15 DEG. INCLINE)
0.75	Rotary Valve Loadout Transfer
20	Loadout Bucket Elevator (26" X 48" , 69'-5" ft H)
0	Loadout Binfeed Conveyor (10" W X 15'-6" L)
3	Aeration Blower Loadout
0	12' Dia , 40 Ton working capacity, Bottom type 60 Deg cone

10	Bin Aeration Blower
0	Aerated Bin Bottom 4 ft Diam.
0	Loadout Bin Valve
0	Loadout Bin discharge air slide (10" W X 9' L)
3	Air Slide Blower
0.75	Elevator Baghouse Rotary Valve
0.5	Automatic Sampler
0	Loadout Impact Flow Meter
1.5	Horizontal Spout Dual Axis Positioner

CONDITIONS:

1. This equipment shall not be operated unless vented to the functioning dust collectors/bin vents under valid district permit C012537, C012538, and C012539. [District Rule 1303]

2. The owner/operator shall operate this equipment in strict accord with the recommendations of the manufacturer and /or sound engineering principles. [District Rule 204]

57. <u>SUPO DRYER DUST COLLECTOR; MDAQMD PERMIT C012532; consisting of;</u>

- Make & Model: DUSTEX 6230-8-8 or Equivalent
- Air Volume: 5000 scfm
- Filter Area:1007 ft^2
- 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 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.085 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 at 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. BAGHOUSE #1, SUPO STORAGE SILO #1; MDAQMD PERMIT C012534; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft^2
- 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 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.020 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. BAGHOUSE #2, SUPO STORAGE SILO #2 BAGHOUSE; MDAQMD PERMIT C012535; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft^2
- 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 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.020 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. BAGHOUSE #2, SUPO STORAGE SILO #3; MDAQMD PERMIT C012536; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1200 scfm
- Filter Area: 314 ft^2
- 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 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.020 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. BAGHOUSESUPO BULK LOADOUT TRANSFER DRAG CONVEYORS; MDAQMD PERMIT C012537; consisting of;

- Make & Model: SCHENCK PROCESS, 96ST25 or Equivalent
- Air Volume: 1000 scfm
- Filter Area: 314 ft^2

- Air to Cloth: 3.2:1
- Exhaust Air Fan :7.5 HP

CONDITIONS:

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

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

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:
   a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
   b. Monthly readings of pressure drop, date and value- pressure drop shall not exceed manufacturer recommendations.
   c. Annual bag and bag suspension system inspection date and results.
   d. Date of bag replacements.
   e. Date and nature of any system repairs.
   [District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.017 lb/hr. [District Rule 404; 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. BAGHOUSE,SUPO BULK LOADOUT BIN, MDAQMD PERMIT C012538; Consisting of;

- Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
- Air Volume: 2200 scfm
- Filter Area: 615 ft^2
- Air to Cloth: 3.6:1
- Exhaust Air Fan : 10 HP

CONDITIONS:

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

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

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:
   a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
   b. Monthly readings of differential pressure drop, date and value - differential pressure drop shall not exceed manufacturer recommendations.
   c. Annual bag and bag suspension system inspection date and results.
   d. Date of bag replacements.
   e. Date and nature of any system repairs. [District Rule 204; 401; 1303]

4. The maximum grain loading in the stack of this dust collector shall not exceed 0.002 grains per dscf and the emissions of particulates (PM10) shall not exceed 0.037 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. IN-LINE CARTRIDGE SPOUT FILTER, SUPO BULK LOADOUT; MDAQMD PERMIT C012539; Consisting of;

- Model: Vortex Model VFS-25-A-A or Equivalent
- Air Volume: 1000 scfm
- Filter Area:
  - Cartridges 232 ft^2
- Air to Cloth: 4.3:1
- Exhaust Air Fan : 3 HP

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 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 Rule 404; 1303- BACT]

5. The O/O shall conduct an initial compliance test within 90 days of initial operation of the Supo Bulk Loadout System (B012533) in accordance with CARB/USEPA Method 5 to show compliance with Condition 4. A USEPA Method 9 shall also be performed during the initial operation compliance test. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present.

The final compliance/source test results must be submitted to the District not later than forty-five (45) days after the source test date. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov. [District Rule 404; 1303]

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

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

- Make & Model: SCHENCK PROCESS, 96ST49 or Equivalent
- Air Volume: 1900 scfm
- Filter Area: 615 ft^2
- Air to Cloth: 3.1:1
- Exhaust Air Fan : 7.5 HP

CONDITIONS:

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

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

3. The O/O shall have a continuing program of maintenance inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. Logging of these data shall be kept on-site for a minimum of five (5) years. This log shall be provided to District personnel on request. This program shall include, but not be limited to:
   a. Monthly stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary).
   b. Monthly readings of pressure drop, date and value - pressure drop shall not exceed manufacturer recommendations.
   c. Annual bag and bag suspension system inspection date and results.
   d. Date of bag replacements.
   e. Date and nature of any system repairs.

   [District Rule 204; 1303]

4. The maximum grain loading in the stack of this bin vent shall not exceed 0.002 grains per dscf and the emissions of particulates (PM) shall not exceed 0.032 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]

B. EQUIPMENT DESCRIPTION: ARGUS PLANT:

1. MDAQMD PERMIT # B000534; BICARBONATE CRYSTALLIZER # 1 - CONSISTING OF THE FOLLOWING EQUIPMENT:

Description / Capacity:
Capacity; 180,000 gallons.
Dimensions; 30 ft diameter x 34 ft high.
60 hp agitator drive motor.

PERMIT CONDITIONS:

1. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. MDAQMD PERMIT # B000535; BICARBONATE CRYSTALLIZER # 3 - CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY:
Capacity; 180,000 gallons.
Dimensions; 30 ft diameter x 34 ft high.
60 hp agitator drive motor.

PERMIT CONDITIONS:

1. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. MDAQMD PERMIT # B000537; SODA ASH PRODUCTION LINE NO. 1; CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY: For rating purposes, horsepower is converted assuming 2550 Btu/hr per horsepower-hour:

Capacity	Equipment Name	Order
	2 parallel Pre-Dryer Shells, 13.3' D x 100' L (Stansteel, housing the belt conveyors)	1
0.13	Bicarbonate Filter, 2 @ 25 hp	2
0.03	Filter Cake Belt Conveyors, 2 @ 5 hp ea	3
0.20	Blender Feed Screw Conveyors, 2 @ 40 hp ea	4
0.20	NaHCO3 Blenders, 2 @ 40 hp, 4' D x 25' L	5
0.20	Drag Chain Conveyors, 2 @ 40 hp ea	6
0.10	Screw Conveyors, 2 @ 20 hp ea	7
0.20	Dryer Feed Screw Conveyors, 2 @ 40 hp ea	8
	2 parallel Dryers, 12' D x 100' L, each steam heated, original fabrication by Stansteel	9
1.28	Dryer Drives, 2 @ 250 hp ea	10

Capacity	Equipment Name	Order
0.02	Emergency Drives, 2 @ 3 hp ea	11
0.20	Bicarbonate Dryer Discharge Screw Conveyors, 2 @ 40 hp ea	12
0.20	Bucket Elevators, 2 @ 40 hp ea	13
0.05	Drag Chain Conveyor, 1 @ 20 hp	14
	Product Cyclone, 6' D x 17' L	15
	Air Lock	16
0.08	Bleacher Feed Screw Conveyor, 30 hp	17
12.65	Bleacher, 13.5' D x 100' L, Stansteel, natural gas.	18
0.38	Bleacher Drives, @ @ 75 hp ea	19
0.01	Emergency drives, 2 @ 1.5 hp ea	20
0.04	Combustion Air Blower, 15 hp	21
0.13	Bleacher Discharge Screw, 50 hp	22
0.10	Drag Chain Conveyor, 40 hp	22
	Mono Crystallizer Tank, 16' D and 26' H	24
0.13	Crystallizer Agitator, 50 hp	25
0.89	Crystallizer Circulation pump, 350 hp	26
0.38	Slurry Pumps, 3 @ 50 hp ea	27
0.08	Delumper Pump, 30 hp	28
0.31	Classifier Pumps, 3 @ 40 hp ea	29
	Dissolver Tank, 11' D and 15' H	30
0.19	Dissolver Pumps, 2 (1 spare) @ 75 hp ea	31
	DSM Screen Filter	32
	Centrifuges, 2	33
0.06	Monohydrate Dryer Feed Screw Conveyor, 25 hp	34
	Monohydrate Dryer; Stansteel, 10' D x 100' L, steam heated	35
0.64	Monohydrate Drives, 250 hp	36
0.08	Monohydrate Screw Conveyor, 30 hp	37
0.10	Monohydrate Bucket Elevator, 40 hp	38
0.03	Belt Conveyor, 10 hp	39
0.1	Two Feed Screw Conveyors, 20 hp each	40
0.1	Bucket Elevator, 25 hp	41
	NOTE: The following 6 items are also COMMON to LINES 2 and 3.	42
0.15	Sweco Feeders, 6 @ 10 hp	43
0.15	Fan, Recycle - ESP exhaust to Monohydrate Dryer, 60 hp	44
0.08	Sweco Shaker Screens, 6 @ 5 hp ea, in Shaker House	45
0.15	Hammer Mill, 60 hp	46
0.00	Conveyor, Hammer Mill Belt, 1.5 hp	47

Capacity	Equipment Name	Order
0.15	Conveyors, E & W Loadout Belt, 2 @ 30 hp ea	48

PERMIT CONDITIONS:

1. This soda ash production line (No. 1) shall not be operated unless vented to all the following functioning pollution control devices, as applicable:
   a. Bleacher feed baghouse (District permit C000533).
   b. Bleacher exhaust ESP while the bleacher is fired(District permit C000544), common to lines 2 and 3.
   c. Monohydrate crystallizer scrubber (District permit C000553).
   d. Monohydrate dryer scrubber (District permit C000527).
   e. Screen plant baghouse; common to lines 2 and 3 (District permit C000532).
   f. Monohydrate Elev. No. 1 baghouse (District permit C003533).

2. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. Bi-Carb dryers shall be operated with sufficient negative pressure to eliminate dusting.

4. MDAQMD PERMIT # B000538; SODA ASH PRODUCTION LINE NO. 2 CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY: For rating purposes, horsepower is converted assuming 2550 Btu/hr per horsepower-hour:

Capacity	Equipment Name	Order
	Pre-Dryer Shells in parallel, 2, each 13.3' ft. Diameter, 100 ft long, original fabrication by Stansteel, which house the belt conveyors	0
30.00	Bicarbonate Filer, 1 at 30 HP	1
10.00	Filter Cake Belt Conveyors, 2 at 5 HP	2
80.00	Blender Feed Screw Conveyors, 2 at 40 HP	3
80.00	NaHCO3 Blenders, 2 at 40 HP, 4' dia, and	4
80.00	Drag Chain Conveyors, 2 at 40 HP each	5
40.00	Screw Conveyors, 2 at 20 HP each	6
80.00	Dryer Feed Screw Conveyors, 2 at 40 HP each	7
0.00	Dryers in parallel, two, 12' dia and 100' L, each steam heated, original fabrication by Stansteel	8
80.00	Bicarbonate Dryer Discharge Screw Conveyors, 2 at 40 HP each	9
500.00	Dryer Drives, 2 at 250 HP each	10
0.00	Emergency Drives, 2 at 3 HP each	11
20.00	Drag Chain Conveyor, 1 at 20 HP	12
0.00	Product Cyclone, 6' dia x 17'	13
0.00	Air Lock	14

Capacity	Equipment Name	Order
30.00	Bleacher Feed Screw Conveyor	15
	Bleacher, 13.5 ft diameter and 100 ft long, natural gas fired, fabricated by Stansteel and rated @ 12.65 x 10^6 Btu/hr	16
150.00	Bleacher Drives, 2 at 75 HP each	17
0.00	Emergency Drives, 2 at 1.5 HP each	18
15.00	Combustion Air Blower, 1 at 15 HP	19
50.00	Bleacher Discharge, 1 at 50 HP	20
40.00	Drag Chain Conveyor, 1 at 40 HP	21
0.00	Mono Crystallizer Tank, 16' dia and 26' H	22
50.00	Crystallizer Agitator, 1 at 50 HP	23
300.00	Crystallizer Circulation pump, 1 at 300 HP	24
150.00	Slurry Pumps, 3 at 50 HP	25
30.00	Delumper Pump	26
120.00	Classifier Pumps, 3 at 40 HP each	27
0.00	Dissolver Tank, 11' dia and 15' H	28
20.00	Conveyor, No. 3 Transfer	29
75.00	Dissolver Pumps, 2 (1 spare) at 75 HP each	30
0.00	DSM Screen Filter	31
0.00	Centrifuges, 2	31
0.038	Centrifuge Feed Belt Conveyor, 15 HP	32
0.013	Centrifuge Feed Screw, 5 HP	33
0.013	Centrifuge Feed Screw, 5 HP	34
0.038	Centrifuge Discharge Screw, 15 HP	35
0.038	Intermediate Screw, 15 HP	36
0	Centrifuges,2	37
25.00	Monohydrate Dryer Feed Screw Conveyor,	38
0.00	Monohydrate Dryer, Stansteel, 10' dia x 100' L,	40
250.00	Monohydrate Drives, 1 at 250 HP	41
30.00	Monohydrate Screw Conveyor, 1 at 30 HP	42
40.00	Monohydrate Bucket Elevator, 1 at 40 HP	43
10.00	Belt Conveyor, 1 at 10 HP	44
0.1	Two Feed Screw Conveyors, 20 hp each	45
0.1	Bucket Elevator, 25 hp	46

PERMIT CONDITIONS:

1. This soda ash production line (No. 2) shall not be operated unless vented to all the following functioning pollution control devices, as applicable:
   a. Bleacher feed baghouse (District permit C000539).

b. Bleacher exhaust ESP while the bleacher is fired (District permit C000544), common to lines 1 and 3.
c. Monohydrate crystallizer scrubber (District permit C000556).
d. Monohydrate dryer scrubber (District permit C000545).
e. Screen plant baghouse; common to lines 1 and 3 (District permit C000532).

2. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. Bi-Carb dryers shall be operated with sufficient negative pressure to eliminate dusting.

5. MDAQMD PERMIT # B000547; SODA ASH PRODUCTION LINE NO. 3; CONSISTING OF THE FOLLOWING EQUIPMENT:

DESCRIPTION / CAPACITY: For rating purposes, horsepower is converted assuming 2550 Btu/hr per horsepower-hour:

Capacity	Equipment Name	Order
	Pre-dryer Shells in parallel, 2, each 13.3' dia, 100'L, original fabrication by Stansteel, which house the belt conveyors	1
25.00	Bicarbonate Filter, 1 @ 25 hp	2
10.00	Filter Cake Belt Conveyors, 2 @ 5 hp ea	3
80.00	Blender Feed Screw Conveyors, 2 @ 40 hp ea	4
80.00	NaHCO3 Blenders, 2 @ 40 hp, 4' dia, and 25'L ea	5
80.00	Drag Chain Conveyors, 2 @ 40 hp ea	6
40.00	Screw Conveyors, 2 @ 20 hp ea	7
100.00	Dryer Feed Screw Conveyors, 1 @ 40 hp and 1 @ 60 hp	8
	Dryers in parallel, 2, 12' dia and 100'L, each steam heated, original fabrication by Stansteel	9
500.00	Dryer Drives, 2 @ 250 hp ea	10
	Emergency Drives, 2 @ 3 hp ea	11
80.00	Bicarbonate Dryer Discharge Screw Conveyors, 2 @ 40 hp ea	12
50.00	Bucket Elevators, 2 @ 25 hp ea	13
20.00	Drag Chain Conveyor, 1 @ 20 hp	14
	Product Cyclone, 6' dia x 17'	15
	Air Lock	16
30.00	Bleacher Feed Screw Conveyor	17
	Bleacher, 13.5' dia and 100'L, natural gas fired, fabricated by Stansteel and rated @ 12.65 x 10^5 Btu/hr	18
150.00	Bleacher Drives, 2 @ 75 hp ea	19
	Emergency Drives, 2 @ 1.5 hp ea	20
15.00	Combustion Air Blower, 1 @ 15 hp	21

Capacity	Equipment Name	Order
50.00	Bleacher Discharge, 1 @ 50 hp	22
40.00	Drag Chain Conveyor, 1 @ 40 hp	23
	Mono Crystallizer Tank, 16' dia and 26'H	24
50.00	Crystallizer Agitator, 1 @ 50 hp	25
300.00	Crystallizer Circulation pump, 1 @ 300 hp	26
150.00	Slurry Pumps, 3 @ 50 hp ea	27
30.00	Delumper Pump	28
120.00	Classifier Pumps, 3 @ 40 hp ea	29
	Dissolver Tank, 11' dia and 15'H	30
75.00	Dissolver Pumps, 2 (1 spare) @ 75 hp ea	31
	DSM Screen Filter	32
	Centrifuges, 2	33
25.00	Monohydrate Dryer Feed Screw Conveyor, 1 @ 25 hp	34
	Monohydrate Dryer; Stansteel, 10' dia x 100'L, steam heated	35
250.00	Monohydrate Drives, 1 @ 250 hp ea	36
30.00	Monohydrate Screw Conveyor, 1 @ 30 hp	37
40.00	Monohydrate Bucket Elevator, 1 @ 40 hp	38
10.00	Belt Conveyor, 1 @ 10 hp	39
0.1	Two Feed Screw Conveyors, 20 hp each	40
0.1	Bucket Elevator, 25 hp	41

PERMIT CONDITIONS:

1. This soda ash production line (No. 3) shall not be operated unless vented to all the following functioning pollution control devices, as applicable:
   a. Bleacher feed baghouse (District permit C000548).
   b. Bleacher exhaust ESP while the bleacher is fired (District permit B000544), common to lines 1 and 2.
   c. Monohydrate crystallizer scrubber (District permit C000552).
   d. Monohydrate dryer scrubber (District permit C000549).
   e. Screen plant baghouse; common to lines 1 and 3 (District permit C000532).
   f. Monohydrate elev. No. 3 baghouse (District permit C003534).

2. The owner / operator shall operate and maintain this equipment in strict accord to the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. Bi-Carb dryers shall be operated with sufficient negative pressure to eliminate dusting.

6. BAGHOUSE (BLEACHER FEED BIN NO. 1); MDAQMD PERMIT # C000533
Serves the Bleacher Feed Bin - Wheelabrator-Frye, model 108, collects particulate matter from Bleacher Feed Bin No. 1 and Bicarb Dryer Product elevators (Soda Ash Line No. 1):

Exhaust Fan: 100 hp
Bags, 216, each 6" dia x 108"L (total area 3,053 ft2)
A/C ratio: 6:1

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This equipment shall be operated concurrently with Nos. 1 Soda Ash Production line (District permit B000537).

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

6. The owner/operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

7. BAGHOUSE (BLEACHER FEED BIN NO. 2); MDAQMD PERMIT # C000539:

Serves the Bleacher Feed Bin - Wheelabrator-Frye, model 108, collects particulate matter from Bleacher Feed Bin No. 2 and Dryer Product Elevators (Soda Ash Line No. 2).
Exhaust Fan: 100 hp
Bags, 216, each 6" dia x 108"L (total area 3,053 ft^2)
A/C ratio: 6:1

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary

basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This equipment shall be operated concurrently with No. 2 Soda Ash Production line (District permit B000538).

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

6. The owner/operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

8. <u>BAGHOUSE (BLEACHER FEED BIN NO. 3); MDAQMD PERMIT # C000548:</u>
Collects particulate matter from Bleacher Feed Bin No. 3 and Bicarb Dryer Product Elevators (Soda Ash Line No. 3), Bleacher Feed Bin - Wheelabrator-Frye model 108, with the following specifications:
Exhaust Fan: 100 hp
Bags: 216, each @ 6" dia x 108"L (total area 3,053 ft^2)
A/C ratio: 6:1:

<u>PERMIT CONDITIONS:</u>

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This equipment shall be operated concurrently with No. 3 Soda Ash Production line

(District permit B000547).

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

6. The owner/operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

9. ELECTROSTATIC PRECIPITATOR (ESP)/CYCLONES; MDAQMD PERMIT # C000544: (Collect particulate matter from three Bleachers from Soda Ash Production Lines Nos. 1, 2, and 3 with the following specifications:
Cyclones: Stansteel Cyclones, 2 in parallel to each bleacher, 63" dia x 80"
ESP: Research-Cottrell, 272 kVA; Exhaust Fan: 500 hp (spared); Gas temperature: approximately 600 degrees F):

PERMIT CONDITIONS:

1. This equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall be operated while one of the bleachers on Soda Ash Production Lines 1, 2, and 3 is fired (District permits B000537, B000538, and B000547, respectively).

3. Only one exhaust fan shall be operated on the ESP at a time.

4. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

5. The owner / operator shall maintain an operations/maintenance log for this equipment on site for at least five (5) years, and shall make the log available to District, state or federal personnel upon request. This log shall include, at a minimum, the following:
   a. Monthly bleacher production (in tons); and
   b. Inspections, repairs and maintenance.

6. The owner / operator shall conduct annual compliance tests relative to District Rules 404 and 405, and for PM10 at a 0.85 fraction (lb/ton of throughput), NOx (lb/hr and lb/ton of throughput), VOC (lb/hr and lb/ton of throughput), and SOx (lb/hr and lb/ton of throughput). The test results shall be submitted to the District not later than six weeks

prior to the expiration date of this permit each year.

7. This equipment shall not emit to the atmosphere pollutants in excess of the following limits (compliance with this condition shall be demonstrated with annual source test results and annual production records):
   a. 49.3 tons of NOx per year
   b. 2.5 tons of VOC per year
   c. 600 lbs of SOx per year

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

10. SCRUBBER (CRYSTALLIZER NO. 1); MDAQMD PERMIT # C000553:
(Induced Draft Fan to move 13,200 ACFM @ 180 degrees F which serves the No. 1 Monohydrate Crystallizer - 100 hp.; American Air Filter size 20 Kinpactor Venturi Scrubber. Water pumps (common to Soda Ash Production Lines #2 & #3.) Note: This equipment replaces Venturi installed in August, 1979:

PERMIT CONDITIONS:

1. All equipment shall be operated and maintained in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. The Argus No. 1 monohydrate crystallizer and bucket elevator operating under District Permit B000537 shall not be operated unless the emissions are vented to this scrubber.

3. The scrubber shall be equipped with a water flow meter and pressure gauge to allow for the measurements of the scrubber liquor flow rate and pressure to the scrubber.

4. The scrubber shall be equipped with a pressure gauge to allow for the measurements of the pressure drop across the scrubber.

5. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be kept in a log on-site for a minimum of five (5) years. This log shall be provided to District personnel on request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the

District not later than six weeks prior to the expiration date of this permit in the applicable years.

7. A compliance test for PM10 emissions at a 0.85 fraction (lb/ton of throughput) shall be performed within 90 days after the installation and initial operation of the Soda Ash Line No. 1 bucket elevator that demonstrates no net increase of PM10 emissions relative to historical emissions from this equipment while the bucket elevator is in operation.

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

11. SCRUBBER (CRYSTALLIZER NO. 2); MDAQMD PERMIT # C000556:
Monohydrate Crystallizer No. 2, Emtrol Venturi Scrubber, Type W20 specification No. SX-005, Size 24/57W20, equipped with an adjustable, ventrical venturi throat with a 24" inlet and outlet, a 57" dia cyclonic separator, straightening vanes, mist eliminator. Operating pressure drop of up to 21" WC. Water flow rate ranging from 150 gpm to 280 gpm. Water pumps common to Soda Ash Trains 1 & 3. ID fan with a 100 bhp motor and an air flow of 3400 DSCFM.

PERMIT CONDITIONS:

1. All equipment shall be operated and maintained in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. The Argus No. 2 monohydrate crystallizer and bucket elevator operating under District Permit B000538 shall not be operated unless the emissions are vented to this scrubber.

3. The scrubber shall be equipped with a water flow meter and pressure gauge to allow for the measurements of the scrubber liquor flow rate and pressure to the scrubber.

4. The scrubber shall be equipped with a pressure gauge to allow for the measurements of the pressure drop across the scrubber.

5. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be kept in a log on-site for a minimum of five (5) years. This log shall be provided to District personnel on request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput).

Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

7. A compliance test for PM10 emissions at a 0.85 fraction (lb/ton of throughput) shall be performed within 90 days after the installation and initial operation of the Soda Ash Line No. 2 bucket elevator that demonstrates no net increase of PM10 emissions relative to historical emissions from this equipment while the bucket elevator is in operation.

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

12. SCRUBBER (CRYSTALLIZER NO. 3); MDAQMD PERMIT # C000552:
Monohydrate Crystallizer - Ducon Venturi Scrubber with 100 hp fan and scrubber water pumps (common to permit C000527). This equipment vents Crystallizer No. 3:

PERMIT CONDITIONS:

1. All equipment shall be operated and maintained in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. The Argus No. 3 monohydrate crystallizer and bucket elevator operating under District Permit B000547 shall not be operated unless the emissions are vented to this scrubber.

3. The scrubber shall be equipped with a water flow meter and pressure gauge to allow for the measurements of the scrubber liquor flow rate and pressure to the scrubber.

4. The scrubber shall be equipped with a pressure gauge to allow for the measurements of the pressure drop across the scrubber.

5. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specifications which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be kept in a log on-site for a minimum of five (5) years. This log shall be provided to District personnel on request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

7. A compliance test for PM10 emissions at a 0.85 fraction (lb/ton of throughput) shall be performed within 90 days after the installation and initial operation of the Soda Ash Line No. 3 bucket elevator that demonstrates no net increase of PM10 emissions relative to historical emissions from this equipment while the bucket elevator is in operation.

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

13. SCRUBBER, VENTURI (SODA ASH PROCESS; MDAQMD PERMIT # C000527; Scrubber No.1, Monohydrate Dryer - 2-stage Polycon, model 1513 MSC with the following appurtenant equipment:

Capacity	Equipment Name
200.00	Exhaust Fan
260.00	Water Pump - 200 hp, 60 hp (common to Soda Ash Production Lines No. 2 and 3 Monohydrate Dryer and Crystallizer Scrubbers)
	Spare Water Pump @ 200 hp

PERMIT CONDITIONS:

1. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall be operated concurrently with Soda Ash Production Line No. 1 (District permit B000537).

3. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month

summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

14. BAGHOUSE (MONOHYDRATE ELEVATOR NO. 1); MDAQMD PERMIT # C003533:

Manufactured by Wheelabrator Air Pollution Control and serving the top of No. 1 Monohydrate Elevator, the transfer point from the No. 1 elevator to the conveyor and the top of No. 2 Monohydrate Elevator with the following specifications:
Model: 36-44SH
Bags: 64 w/ea 6.0" x 10'L
A/C Ratio: 2.1 x 1
Rotary Airlock:
Fan: 20 hp
Stack: 17" diameter & 65' high and 170 degrees F at 5500 acfm & 58.8 ft/sec:

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

3. This equipment shall be operated concurrently with Soda Ash Production Line No. 1 covered in District permit B000537.

4. 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.

5. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, is required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month

summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

15. SCRUBBER (DRYER NO. 2); MDAQMD PERMIT # C000545:

Monohydrate Dryer, 2-stage Polycon model 1513 MSC.
Exhaust Fan: 200 hp
Water Pump (common to Soda Ash Production Lines Nos. 1 and 3) Monohydrate Dryer Water Pump
This equipment handles gas from Soda Ash Production Line No. 2 Monohydrate Dryer:

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

3. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

4. This equipment shall be operated concurrently with No. 2 Soda Ash Production line (District permit B000538).

5. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

6. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

7. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput).
   Testing shall be every three years starting in 2002 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

8. This equipment may be used for dust control on the No. 2 Monohydrate Crystallizer

when the No. 2 Monohydrate Dryer is not being operated.

16. SCRUBBER (DRYER NO. 3); MDAQMD PERMIT # C000549:

2-stage Polycon model 1513 MSC with the following appurtenant equipment which handles gas from Soda Ash Production Line No. 3 Monohydrate Dryer:
Exhaust Fan: 200 hp
Water Pump (common to Soda Ash Production Lines Nos. 1 and 2 Monohydrate Dryer and Crystallizer Scrubbers)
Water Pump, (common to Soda Ash Production Lines Nos. 1 and 2):

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This equipment shall be operated concurrently with No. 3 Soda Ash Production line (District permit B000547).

4. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

5. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput).
Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

17. BAGHOUSE (MONOHYDRATE ELEVATOR NO. 3); MDAQMD PERMIT # C003534:

Manufactured by Wheelabrator Air Pollution Control and serving the top of No. 3 Monohydrate Elevator, the transfer point from the No. 1 elevator to the conveyor and the top of No. 2 Monohydrate Elevator with the following specifications:
Model: 36-44SH
Bags: 64 w/ea 6.0" x 10'L

A/C Ratio: 2.1 x 1
Rotary Airlock:
Fan: 20 hp
Stack: 17" diameter & 65' high and 170 degrees F at 5500 acfm & 58.8 ft/sec:

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

4. This equipment shall be operated concurrently with Soda Ash Production Line No. 3 covered in District permit B000547.

5. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

18. <u>BAGHOUSE (SODA ASH LINES), SCREENING PLANT; MDAQMD PERMIT # C000532</u>:

Wheelabrator-Frye, TA model 108 series 6P, which collects particulate matter from Soda Ash (Line Nos. 1, 2, and 3) screening house and conveyors. This unit includes a pickup point from loading a truck from the collection bin of the baghouse. This unit has a 75 hp fan (14,500 dscf/min) exhausting 216 bags, whose dimensions are 6 in diameter and 108 in long for a total filter area of 3053 sq ft. The unit has an A:C ratio of 5:1. Ancillary equipment includes a 3 hp screw conveyor and a 2 hp air lock:

PERMIT CONDITIONS:

1. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall be operated concurrently with Nos. 1, 2, and 3 Soda Ash Production lines (District permit B000537, B000538, and B000547) and with the unloading of the baghouse collection bin to a truck for off site removal.

3. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

6. The owner / operator shall conduct periodic compliance tests to establish grain loading, TSP emissions in lb/hr and PM10 emissions in lb/ton of throughput (assuming a PM10 fraction of 0.85). Testing shall be every three years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

7. This baghouse shall discharge no more than 2.49 lb/hour of particulate at a maximum concentration of 0.02 grain/dscf at the operating conditions given in the above description.

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

19. DRYER SYSTEM, NO. 1 BICARBONATE FLUIDIZED BED; MDAQMD PERMIT # B003665; Consisting of the following equipment:

Capacity	Equipment Name	Order
30.00	Pumps, Calciner Scrubber Water (2-one spare) heated	0
600.00	Fan, Dryer Fluidizing	0
500.00	Fan, Calciner	0
300.00	Fan, Bircarbonate Dryer ID	1
15.00	Elevator, Bicarbonate Recycle	2
3.00	Valve, Dryer Recycle Rotary	3

Capacity	Equipment Name	Order
10.00	Crusher, Dryer Lump	4
2.00	Valve, Dryer Lump Rotary Cyclones, Dryer (2)	5
6.00	Valves, Dryer Cyclone Rotary (4@1.5)	6
	Scrubber, Bicarbonate Dryer	7
	Dryer, Bicarbonate Fluidized Bed - steam	8
	Scrubber, Calciner	9
30.00	Filter, Bicarbonate Wet	10
5.00	Valve, Calciner Rotary Pump	11
40.00	Conveyor, Bicarbonate Collecting	12
50.00	Conveyor, Light Ash Transfer No. 1	13
50.00	Conveyor, Light Ash Transfer No. 2	14
	Pump, Bicarbonate Filter Feed Wet	15
15.00	Pump, Condensate	16
	Pump, Bicarbonate Slurry Wet	17
	Pump, Filtrate Wet	18
40.00	Screw, Bicarbonate Dryer Feed	19
65.00	Spreader, Bicarbonate Dryer Feed (2@15 and 40 HP)	20
125.00	Pumps, Dryer Scrubber Water (2-one spare)	21

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this equipment in strict accord to the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This fluidized bed bicarbonate dryer system (No. 1) shall not be operated unless all conveyors and transfer points are completely covered. [Rules 401 and 403; Rules 404 and 405]

3. This bicarbonate fluidized bed dryer system, No. 1, shall not be operated unless vented to all of the following baghouses under their respective valid District permits: Transfer Conveyor No. 1, permit C003668; Transfer Conveyor No. 2, permit C003669; Transfer Conveyor No. 3, permit C003670 and Truck Loadout, permit C003667.

20. MDAQMD PERMIT # B004540; DRYER SYSTEM NO. 2 BICARBONATE FLUIDIZED BED; CONSISTING OF THE FOLLOWING EQUIPMENT:

Capacity	Equipment Name	Order
	Dryer, Bicarbonate Fluidized Bed - steam heated	1
	Calciner, Bicarbonate Fluidized Bed	2
600.00	Fan, Bicarb Dryer Fluidizing	3
500.00	Fan, Bicarb Calciner Fluidizing	4

Capacity	Equipment Name	Order
300.00	Fan, Bicarb Dryer ID	5
60.00	Screw, Bicarb Dryer Feed	6
40.00	Spreaders, Bicarb Dryer Feed (1 @ 15 hp & 1 @ 25 hp)	7
15.00	Elevator, Bicarb Recycle	8
3.00	Valve, Dryer Recycle Rotary	9
10.00	Crusher, Dryer Lump	10
1.50	Valve, Dryer Lump Rotary	11
	Cyclones, Dryer (2)	12
6.00	Valves, Dryer Cyclone Rotary (4 @ 1.5 hp ea)	13
	Scrubber, Bicarb Dryer	14
120.00	Pumps, Dryer Scrubber Water (2, one spare)	15
	Scrubber, Calciner	16
30.00	Pumps, Calciner Scrubber Water (2, one spare)	17
40.00	Conveyor, Bicarb Collecting	18
25.00	Conveyor, No. 1 Bleacher Bin	19
15.00	Pump, Condensate (2, one spare)	20
2.00	Conveyor, Calciner Fines Screw	21
1.50	Valve, Bicarb Calciner Discharge Rotary	22
5.00	Screw, Dryer Cyclone Fines	23
10.00	Screw, Dryer Recycle	24
		25
	The following are common with No.1 Bicarb Fluid Bed Dryer:	26
	Conveyor, Bicarb Collecting	27
	Conveyor, Light Ash Transfer No. 1	28
	Conveyor, Light Ash Transfer No. 2	29

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. The owner / operator shall operate and maintain this equipment in strict accord to the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This fluidized bed bicarbonate dryer system (No. 2) shall not be operated unless all conveyors and transfer points are completely covered. [Rules 401 and 403; Rules 404 and 405]

4. This bicarbonate fluidized bed dryer system (No. 2) shall not be operated unless vented to all the following functioning pollution control devices:

A. Bicarb No. 2 Transfer Conveyor No. 1 Baghouse (C004542).
B. Bicarb No. 2 Transfer Conveyor No. 2 Baghouse (C004543).
C. Bicarb No. 2 Transfer Conveyor No. 3 Baghouse (C004544).
D. Bicarb No. 1 Transfer Conveyor No. 1 Baghouse (C003668).
E. Bicarb No. 1 Transfer Conveyor No. 2 Baghouse (C003669).
F. Bicarb No. 1 Transfer Conveyor No. 3 Baghouse (C003670).

21. MDAQMD PERMIT # B003672; DRYER SYSTEM NO. 1 MONOHYDRATE FLUIDIZED BED; CONSISTING OF THE FOLLOWING EQUIPMENT:

Capacity	Equipment Name	Order
	Dryer, Monohydrate Fluidized Bed - steam heated	1
	Dehydrator, Monohydrate Fluidized Bed - steam	2
300.00	Fan, Dryer Fluidizing	3
700.00	Fan, Dehydrator Fluidizing	4
60.00	Screw, Dryer Mixing	5
15.00	Screw, Dryer Feed	6
25.00	Dryer Feed Screw	7
3.00	Valve, Dryer Recycle Rotary	8
1.50	Valve, Dryer Crusher Rotary	9
5.00	Valve, Cooler Rotary	10
5.00	Cooler, Rotary Dump Valve	11
10.00	Crusher, Dryer Lump	12
15.00	Elevator, Dryer Recycle	13
375.00	Centrifuges (3 @ 125 hp ea)	14
25.00	Conveyor, Dryer Collecting	15
50.00	Conveyor, Transfer	16
20.00	Conveyor, Surge Bin Feeder	17
	Filter, DSM Screen (3)	18
250.00	Pump, DSM Screen Feed	19
10.00	Pump, Mono Dryer Condensate (1 spare)	20
15.00	Pump, High Pressure Condensate (2 @ 15 hp ea - 1 spare)	21
10.00	Pump, Mono Cooler Cooling Water	22

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. The owner / operator shall operate and maintain this equipment in strict accord to the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This fluidized bed monohydrate dryer system (No. 1) shall not be operated unless all conveyors and transfer points are completely covered. [Rules 401 and 403; Rules 404 and 405]

4. This monohydrate fluidized bed dryer system (No. 1) shall not be operated unless vented to all the following functioning pollution control devices:
   A. Dryer-Dehydrator Baghouse (District permit C003673)
   B. Transfer Conveyor #1 Baghouse (District permit C003675)
   C. Transfer Conveyor #2 Baghouse (District permit C003676)
   D. Transfer Conveyor #3 Baghouse (District permit C003677)

5. All three of the monohydrate dryers (listed on B000537, B000538 and B000547) and their associated conveyor systems may be operated concurrently with this equipment. [NSR]

21- A (the below listed baghouses same as baghouses listed in Item #s 23, 24, 25, 26, 27, 28, 29 and # 31, 32, 33)
note: only the below listed Transfer Conveyor Baghouses required to meet Subpart OOO

BICARBONATE FLUIDIZED BED DRYER SYSTEM NO. 1 (# B003665) TRANSFER POINT BAGHOUSES – MDAQMD PERMIT #s C003667, C003668, C003669, C003670; SHALL MEET THE FOLLOWING NSPS SUBPART OOO REQUIREMENTS:

BICARBONATE FLUIDIZED BED DRYER SYSTEM NO. 2 (#B004540) TRANSFER POINT BAGHOUSES – MDAQMD PERMIT #s C004542, C004543, C004544; SHALL MEET THE FOLLOWING NSPS SUBPART OOO REQUIREMENTS:

MONOHYDRATE FLUIDIZED BED DRYER SYSTEM NO. 1 (# B003672) TRANSFER POINT BAGHOUSES – MDAQMD PERMIT #s C003675, C003676, C003677; SHALL MEET THE FOLLOWING NSPS SUBPART OOO REQUIREMENTS:

Subpart OOO – Standards of Performance for Nonmetallic Mineral Processing Plants:
40 CFR 60.672 Standard For Particulate Matter:
(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any stack emissions which:
(a)(1) Contain particulate matter in excess of 0.05 g/dscm (0.022 gr/dscf); and
(a)(2) Exhibit greater than 7 percent opacity, unless the stack emissions are discharged from an affected facility using a wet scrubbing control device. Facilities using a wet scrubber must comply with the reporting provisions of §60.676(c), (d), and (e).
(b) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after

initial startup as required under §60.11 of this part, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any transfer point on belt conveyors or from any other affected facility any fugitive emissions which exhibit greater than 10 percent opacity, except as provided in paragraphs (c), (d), and (e) of this section.
(c) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any crusher, at which a capture system is not used, fugitive emissions which exhibit greater than 15 percent opacity.
(d) Truck dumping of nonmetallic minerals into any screening operation, feed hopper, or crusher is exempt from the requirements of this section.
(e) If any transfer point on a conveyor belt or any other affected facility is enclosed in a building, then each enclosed affected facility must comply with the emission limits in paragraphs (a), (b) and (c) of this section, or the building enclosing the affected facility or facilities must comply with the following emission limits:
(e)(1) No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent as defined in §60.671.
(e)(2) No owner or operator shall cause to be discharged into the atmosphere from any vent of any building enclosing any transfer point on a conveyor belt or any other affected facility emissions which exceed the stack emissions limits in paragraph (a) of this section.
(f) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup as required under §60.11 of this part, no owner or operator shall cause to be discharged into the atmosphere from any baghouse that controls emissions from only an individual, enclosed storage bin, stack emissions which exhibit greater than 7 percent opacity.
(g) Owners or operators of multiple storage bins with combined stack emissions shall comply with the emission limits in paragraph (a)(1) and (a)(2) of this section.
(h) On and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, no owner or operator shall cause to be discharged into the atmosphere any visible emissions from:
(h)(1) Wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to the next crusher, grinding mill or storage bin.
(h)(2) Screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, where such screening operations, bucket elevators, and belt conveyors process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.

[62 FR 31351, June 9, 1997; 65 FR 61744, Oct. 17, 2000]

40 CFR 60.674 Monitoring of operations:
The owner or operator of any affected facility subject to the provisions of this subpart which uses a wet scrubber to control emissions shall install, calibrate, maintain and operate the following monitoring devices:
(a) A device for the continuous measurement of the pressure loss of the gas stream through the scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 250 pascals ± 1 inch water gauge pressure and must be calibrated on an annual basis in accordance with manufacturer's instructions.
(b) A device for the continuous measurement of the scrubbing liquid flow rate to the wet scrubber. The monitoring device must be certified by the manufacturer to be accurate within ± 5 percent of design scrubbing liquid flow rate and must be calibrated on an annual basis in accordance with manufacturer's instructions.

40 CFR 60.675 Test methods and procedures:
(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (e) of this section.
(b) The owner or operator shall determine compliance with the particulate matter standards in §60.672(a) as follows:
(b)(1) Method 5 or Method 17 shall be used to determine the particulate matter concentration. The sample volume shall be at least 1.70 dscm (60 dscf). For Method 5, if the gas stream being sampled is at ambient temperature, the sampling probe and filter may be operated without heaters. If the gas stream is above ambient temperature, the sampling probe and filter may be operated at a temperature high enough, but no higher than 121°C (250°F), to prevent water condensation on the filter.
(b)(2) Method 9 and the procedures in §60.11 shall be used to determine opacity.
(c) In determining compliance with the particulate matter standards in §60.672(b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:
(c)(1) In determining compliance with the particulate matter standards in §60.672(b) and (c), the owner or operator shall use Method 9 and the procedures in §60.11, with the following additions:
(c)(1)(i) The minimum distance between the observer and the emission source shall be 4.57 meters (15 feet).
(c)(1)(ii) The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, Section 2.1) must be followed.

(c)(1)(iii) For affected facilities using wet dust suppression for particulate matter control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.
(c)(2) In determining compliance with the opacity of stack emissions from any baghouse that controls emissions only from an individual enclosed storage bin under §60.672(f) of this subpart, using Method 9, the duration of the Method 9 observations shall be 1 hour (ten 6-minute averages).
(c)(3) When determining compliance with the fugitive emissions standard for any affected facility described under §60.672(b) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
(c)(3)(i) There are no individual readings greater than 10 percent opacity; and
(c)(3)(ii) There are no more than 3 readings of 10 percent for the 1-hour period.
(c)(4) When determining compliance with the fugitive emissions standard for any crusher at which a capture system is not used as described under §60.672(c) of this subpart, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:
(c)(4)(i) There are no individual readings greater than 15 percent opacity; and
(c)(4)(ii) There are no more than 3 readings of 15 percent for the 1-hour period.
(d) In determining compliance with §60.672(e), the owner or operator shall use Method 22 to determine fugitive emissions. The performance test shall be conducted while all affected facilities inside the building are operating. The performance test for each building shall be at least 75 minutes in duration, with each side of the building and the roof being observed for at least 15 minutes.
(e) The owner or operator may use the following as alternatives to the reference methods and procedures specified in this section:
(e)(1) For the method and procedure of paragraph (c) of this section, if emissions from two or more facilities continuously interfere so that the opacity of fugitive emissions from an individual affected facility cannot be read, either of the following procedures may be used:
(e)(1)(i) Use for the combined emission stream the highest fugitive opacity standard applicable to any of the individual affected facilities contributing to the emissions stream.
(e)(1)(ii) Separate the emissions so that the opacity of emissions from each affected facility can be read.
(f) To comply with §60.676(d), the owner or operator shall record the measurements as required §60.676(c) using the monitoring devices in §60.674(a) and (b) during each particulate matter run and shall determine the averages.

(g) If, after 30 days notice for an initially scheduled performance test, there is a delay (due to operational problems, etc.) in conducting any rescheduled performance test required in this section, the owner or operator of an affected facility shall submit a notice to the Administrator at least 7 days prior to any rescheduled performance test.
(h) Initial Method 9 performance tests under §60.11 of this part and §60.675 of this subpart are not required for:
(h)(1) wet screening operations and subsequent screening operations, bucket elevators, and belt conveyors that process saturated material in the production line up to, but not including the next crusher, grinding mill or storage bin.
(h)(2) screening operations, bucket elevators, and belt conveyors in the production line downstream of wet mining operations, that process saturated materials up to the first crusher, grinding mill, or storage bin in the production line.
[54 FR 6680, Feb. 14, 1989; 62 FR 31351, June 9, 1997]

40 CFR 60.676 Reporting And Recordkeeping:
(a) Each owner or operator seeking to comply with §60.670(d) shall submit to the Administrator the following information about the existing facility being replaced and the replacement piece of equipment.
(a)(1) For a crusher, grinding mill, bucket elevator, bagging operation, or enclosed truck or railcar loading station:
(a)(1)(i) The rated capacity in megagrams or tons per hour of the existing facility being replaced and
(a)(1)(ii) The rated capacity in tons per hour of the replacement equipment.
(a)(2) For a screening operation:
(a)(2)(i) The total surface area of the top screen of the existing screening operation being replaced and
(a)(2)(ii) The total surface area of the top screen of the replacement screening operation.
(a)(3) For a conveyor belt:
(a)(3)(i) The width of the existing belt being replaced and
(a)(3)(ii) The width of the replacement conveyor belt.
(a)(4) For a storage bin:
(a)(4)(i) The rated capacity in megagrams or tons of the existing storage bin being replaced and
(a)(4)(ii) The rated capacity in megagrams or tons of replacement storage bins.
(b) [Removed and reserved.]
(b)(1) The information described in §60.676(a).
(b)(2) A description of the control device used to reduce particulate matter emissions from the existing facility and a list of all other pieces of equipment controlled by the same control device; and
(b)(3) The estimated age of the existing facility.
(c) During the initial performance test of a wet scrubber, and daily thereafter, the owner or operator shall record the measurements of both the change in pressure of the gas stream across the scrubber and the scrubbing liquid flow

rate.
(d) After the initial performance test of a wet scrubber, the owner or operator shall submit semiannual reports to the Administrator of occurrences when the measurements of the scrubber pressure loss (or gain) and liquid flow rate differ by more than ± 30 percent from the averaged determined during the most recent performance test.
(e) The reports required under paragraph (d) shall be postmarked within 30 days following end of the second and fourth calendar quarters.
(f) The owner or operator of any affected facility shall submit written reports of the results of all performance tests conducted to demonstrate compliance with the standards set forth in §60.672 of this subpart, including reports of opacity observations made using Method 9 to demonstrate compliance with §60.672(b), (c), and (f), and reports of observations using Method 22 to demonstrate compliance with §60.672(e).
(g) The owner or operator of any screening operation, bucket elevator, or belt conveyor that processes saturated material and is subject to §60.672(h) and subsequently processes unsaturated materials, shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the 10 percent opacity limit in §60.672(b) and the emission test requirements of §60.11 and this subpart. Likewise a screening operation, bucket elevator, or belt conveyor that processes unsaturated material but subsequently processes saturated material shall submit a report of this change within 30 days following such change. This screening operation, bucket elevator, or belt conveyor is then subject to the no visible emission limit in §60.672(h).
(h) The subpart A requirement under §60.7(a)(2) for notification of the anticipated date of initial startup of an affected facility shall be waived for owners or operators of affected facilities regulated under this subpart.
(i) A notification of the actual date of initial startup of each affected facility shall be submitted to the Administrator.
(i)(1) For a combination of affected facilities in a production line that begin actual initial startup on the same day, a single notification of startup may be submitted by the owner or operator to the Administrator. The notification shall be postmarked within 15 days after such date and shall include a description of each affected facility, equipment manufacturer, and serial number of the equipment, if available.
(i)(2) For portable aggregate processing plants, the notification of the actual date of initial startup shall include both the home office and the current address or location of the portable plant.
(j) The requirements of this section remain in force until and unless the Agency, in delegating enforcement authority to a State under section 111(c) of the Act, approves reporting requirements or an alternative means of compliance surveillance adopted by such States. In that event, affected facilities within the State will be relieved of the obligation to comply with the reporting requirements of this section, provided that they comply with requirements established by the State.

(Approved by the Office of Management and Budget under control number 2060-0050)
[51 FR 31337, Aug. 1, 1985, as amended at 54 FR 6680, Feb. 14, 1989; 62 FR 31351, June 9, 1997; 65 FR 61744, Oct. 17, 2000]

22. MONOETHANOLAMINE (MEA) AND/OR DIGLYCOLAMINE (DGA) SYSTEM; MDAQMD PERMIT # B000551: A Carbon Dioxide Absorption system:

Capacity	Equipment Name	Order
	Absorption Towers, 2, each 14.5' dia x 133'	1
1250.00	Exhaust Fans, 2 @ 1,250 hp ea (1 spare)	2
500.00	Lean Amine Pumps, 3 (include. 1 spare) @ 250 hp ea	3
400.00	Rich Amine Pumps, 3 (include. 1 spare) @ 200 hp ea	4
30.00	Reflux Water Sump Pumps, 2 (include. 1 spare) @ 30 hp ea	5
15.00	Tray Water Pumps, 2 @ 7.5 hp ea	6
3.00	Demister Return Pump, 1 @ 3 hp	7
25.00	Reflux Water Booster	8

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be operated/maintained in strict accord with manufacturer's recommendations and/or sound engineering principles.

3. MEA/DGA exhaust stack emission shall not violate District Rule 401.

4. The owner / operator shall activate the demisters, which are not normally used, when internally determined opacities exceed those allowed by District Rule 401.

5. At least bi-annually, during Boiler Nos. 25 and 26 scheduled outages, the owner / operator shall conduct maintenance inspections and effect repairs discovered there from.

23. BAGHOUSE (BICARB FB DRYER NO. 1 TRANS CONV NO. 1); MDAQMD PERMIT # C003668:

Bicarb No. 1 Transfer Conveyor No. 1 - part of No. 1 Bicarbonate Fluidized Bed Dryer System (B003665) with the following specifications:
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 20' high and 138 degrees F at 1500 acfm & 1500 ft/min:

PERMIT CONDITIONS:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emissions of particulates (PM) shall not exceed 0.20 pounds per hour.

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the Bicarbonate Fluidized Bed Dryer System No. 1 covered in District permit B003665.

5. 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.

6. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

7. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable. [40 CFR 60.8 and 60.675]

8. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

24. <u>BAGHOUSE (BICARB FB DRYER NO. 1 TRANS CONV NO. 2); MDAQMD PERMIT # C003669:</u>

Bicarb No. 1 Transfer Conveyor No. 2 - part of No. 1 Bicarbonate Fluidized Bed Dryer System (B003665) with the following specifications:
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 20' high and 138 degrees F at 1500 acfm & 1500 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emissions of particulates (PM) shall not exceed 0.20 pounds per hour. [Rule 404, NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the Bicarbonate Fluidized Bed Dryer System No. 1 covered in District permit B003665.

5. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel on request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 PM10 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in the applicable years. [40 CFR 60.8 and 60.675]

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

25. <u>BAGHOUSE (BICARB FB DRYER NO. 1 TRANSFER CONVEYOR NO.3); MDAQMD PERMIT # C003670:</u>

A Gas flow of 1500 ACFM @ 138 degrees F:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emissions of particulates (PM) shall not exceed 0.20 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the Bicarbonate Fluidized Bed Dryer System No. 1 covered in District permit B003665.

5. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as the monthly throughput of the system of process controlled, shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in the applicable years. [40 CFR 60.8 and 60.675]

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

26. <u>BAGHOUSE (BICARB NO. 1 TRUCK FEED SCREW CONVEYOR); MDAQMD PERMIT # C003667:</u>

A Wheelabrator, model 32WCC MOA, 36 pulse, serial number 20-3356. It has a Chicago fan, serial number 93-7693-5, which pulls about 1500 acfm with a 5 hp motor at 200 F:

<u>PERMIT CONDITIONS:</u>

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emissions of particulates (PM) shall not exceed 0.20 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the Bicarbonate Fluidized Bed Dryer System No. 1 covered in District permit B003665.

5. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required, as well as monthly throughput of the system or process controlled, with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit starting in 2001 and subsequent five-year intervals. This unit need not be tested if it is not operating. If this non-operation testing waiver is employed by the owner / operator, the unit shall be tested within 60 days of commencement of re-operation. [40 CFR 60.8 and 60.675]

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

27. <u>BAGHOUSE (BICARB FB DRYER NO. 2 TRANS CONV NO. 1); MDAQMD PERMIT # C004542:</u>

Bicarb No. 2 Transfer Conveyor No. 1 - North Collecting Belt, part of No. 2 Bicarbonate Fluidized Bed Dryer System (B004540) with the following specifications:

Mfg: Wheelabrator
Model No.: 32WCC MOD36 Pulse
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 20' high and 138 degrees F at 1500 acfm & 2300 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Bicarbonate Fluidized Bed Dryer System No. 2 under valid District permit B004540.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

28. <u>BAGHOUSE (BICARB FB DRYER NO.2 TRANS CONV NO. 2); MDAQMD PERMIT # C004543:</u>

Bicarb No. 2 Transfer Conveyor No. 2 - No. 1 Bleacher Conveyor Tail End Baghouse, part of No. 2 Bicarbonate Fluidized Bed Dryer System (B004540) with the following specifications:

Mfg: Wheelabrator
Model No.: 32WCC MOD36 Pulse
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 20' high and 138 degrees F at 1500 acfm & 2300 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Bicarbonate Fluidized Bed Dryer System No. 2 under valid District permit B004540.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

29. <u>BAGHOUSE (BICARB FB DRYER NO. 2 TRANS CONV NO. 3); MDAQMD PERMIT # C004544:</u>

Bicarb No. 2 Transfer Conveyor No. 3 - No. 1 Bleacher Bin Feed Conveyor, part of No. 2 Bicarbonate Fluidized Bed Dryer System (B004540) with the following specifications:
Mfg: Wheelabrator
Model No.: 32WCC MOD36 Pulse
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 20' high and 138 degrees F at 1500 acfm & 2300 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Bicarbonate Fluidized Bed Dryer System No. 2 under valid District permit B004540.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2002 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

30. <u>BAGHOUSE (MONO FB NO. 1 DRYER-DEHYDRATOR); MDAQMD PERMIT # C003673:</u>

Mono No. 1 Dryer-Dehydrator - part of No. 1 Monohydrate Fluidized Bed Dryer System (B003672) with the following specifications:
Exhaust Fan: 250 hp
Stack: 8.0' diameter & 77' high and 211 degrees F at 92,930 acfm & 1850 ft/min:

<u>PERMIT CONDITIONS</u>:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 13.71 pounds per hour. [Rule 404; NSPS OOO]

3. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

4. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

5. This equipment shall be operated concurrently with the Monohydrate Fluidized Bed Dryer System No. 1 covered in District permit B003672.

6. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

7. The owner / operator shall conduct annual compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). The test results shall be submitted to the District not later than six weeks prior to the expiration date of this permit each year.

31. <u>BAGHOUSE (MONO FB DRYER NO.1 TRANSFER CONVEYOR NO. 1);MDAQMD PERMIT # C003675:</u>

Mono No. 1 Transfer Conveyor No. 1 - part of No. 1 Monohydrate Fluidized Bed Dryer System (B003672) with the following specifications:
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 18' high and 138 degrees F at 1500 acfm & 2300 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Monohydrate Fluidized Bed Dryer System No.1 under valid District permit B003672.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR

60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2002 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

32. <u>BAGHOUSE (MONO FB DRYER NO. 1 TRANSFER CONVEYOR NO. 2); MDAQMD PERMIT # C003676:</u>

Mono No. 1 Transfer Conveyor No. 2 - part of No. 1 Monohydrate Fluidized Bed Dryer System (B003672) with the following specifications:
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 12' high and 138 degrees F at 1500 acfm & 2300 ft/min:

<u>PERMIT CONDITIONS</u>:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Monohydrate Fluidized Bed Dryer System No.1 under valid District permit B003672.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and

405 to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2002 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

33. BAGHOUSE (MONO FB DRYER NO. 1 TRANSFER CONVEYOR NO. 3); MDAQMD PERMIT # C003677:

Mono No. 1 Transfer Conveyor No. 3 - part of No. 1 Monohydrate Fluidized Bed Dryer System (B003672) with the following specifications:
Exhaust Fan: 3 hp
Stack: 0.92' diameter & 65' high and 138 degree F at 1500 acfm & 2300 ft/min:

PERMIT CONDITIONS:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains per dscf and the emission of particulates (PM) shall not exceed 0.26 pounds per hour. [Rule 404; NSPS OOO]

2. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This baghouse shall operate concurrently with the Monohydrate Fluidized Bed Dryer System No.1 under valid District permit B003672.

5. The owner / operator shall have a continuing program of maintenance/inspections in accord with manufacturer's recommendations and specification which ensures compliance with District Rules. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of this data, as well as monthly throughput of the system or process controlled, shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request. [40 CFR 60.8 and 60.675]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five (5) years starting in 2002 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

7. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

34. STORAGE; MDAQMD PERMIT # T000528:

"A" Frame Soda Ash Storage Structure, 10,000 ton capacity, vents to an Air Pollution Control Baghouse (District permit C000529). Total volume: 2,493,333 gallons:

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to the permitted baghouse (District permit C000529).

2. All openings to the atmosphere shall be closed during soda ash receiving.

35. SODA ASH TRUCK LOADOUT SYSTEM; MDAQMD PERMIT # B000530:

Capacity	Equipment Name	Order
9.00	Vibrating Feeders, 6 @ 1.5 hp ea	1
200.00	Belt Conveyor	2
	Surge Bin, 125 ton	3
0.33	Loading Spout (vents to baghouse, District permit C000543)	4

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to functioning air pollution control equipment, District permit C000543.

2. All equipment shall be maintained/operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

36. SODA ASH RAILROAD LOADOUT FACILITY; MDAQMD PERMIT # B000128:

Soda Ash Railroad Loadout System:

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to permitted, functioning air pollution control equipment (District permits C000126, C000127, C002354, and C0002355).

2. This equipment shall be kept in good operating condition at all times and shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

37. BAGHOUSE (SODA ASH A-FRAME); MDAQMD PERMIT # C000529:

A Standard Havens unit to control emissions with this Argus A-Frame baghouse. This unit is also ducted to pickup those fugitive emissions generated during the unloading of the baghouse bin to a truck trailer. This unit has 252 bags, each 6 in diameter and 10 ft long. The A:C ratio is 5.5 to 1 and is exhausted by a 100 hp fan. Additionally there are a screw conveyor from the baghouse, 3 hp and a screw conveyor to the truck, 1 hp:

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This equipment shall be operated concurrently with Soda Ash "A" Frame Storage Structure (District permit T000528) and whenever the baghouse is being unloaded to the truck trailer for removal off site.

4. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

5. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

6. The owner / operator shall conduct periodic compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2002 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in the applicable years.

38. BAGHOUSE (SODA ASH TRUCK LOADOUT); MDAQMD PERMIT # C000543:

A Standard Havens, model K210-4757, whose ID number is N210-4784, serial number 10113 and controls emissions from Soda Ash Truck Loadout System (District permit B000530). This unit has 168 bags, each 6" in diameter and 108" long. The total flow rate through the unit is 2050 ACFM and an A:C ratio of 3.5:1. Ancillary equipment includes a 3 compartment settling chamber with a 0.5 hp screw and fan exhaust motor of 75 hp. This unit is modified to collect fugitive emissions, which may develop from the unloading of the collection bin of the baghouse to trucks for off site removal:

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

3. This equipment shall be operated concurrently with Soda Ash Loadout System (District permit B000530) and while the baghouse collection bin is being unloaded to trucks for off site removal.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2002 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

39. BAGHOUSE (BLUE) EAST; MDAQMD PERMIT # C000126:

Fabric filters, model 36-8 TR "B", Pulse-Jet cleaning which serves the East End Soda Ash Railroad Loadout and has the following specifications:

Exhaust Fan - 5 hp
36 bags - 470 ft2
Exhaust rate: 2,500 ACFM, ambient conditions
A/C ratio: 3.2:1
Each bag is 6 1/4" dia x 8'L:

PERMIT CONDITIONS:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. 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.

3. This program shall include, but is not limited to, regular opacity reading, pressure differential measurements, and maintenance inspections. Logging of this data shall be required with the log kept on-site for a minimum of two years. This log shall be made available to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the soda ash railroad loadout system (District permit B000128).

5. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2002 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

40. <u>BAGHOUSE (GREY) EAST; MDAQMD PERMIT # C002355:</u>

DCL Dust Collector, model 6-648-54-1005, which serves the Argus East Railcar Loadout facility and has the following:
ID Fan: 15 hp
Bags: 54, each 103"L x 5.8" dia for a total filter area of 702 ft2 and A/C ratio of 5.7:1, ambient conditions
Loading spouts: 1

<u>PERMIT CONDITIONS</u>:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. 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.

3. This program shall include, but is not limited to, regular opacity reading, pressure differential measurements, and maintenance inspections. Logging of this data shall be required with the log kept on-site for a minimum of two years. This log

shall be made available to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the soda ash railroad loadout system (District permit B000128).

5. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and submit it to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2002 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

41. <u>BAGHOUSE (BLUE) WEST; MDAQMD PERMIT # C000127:</u>

Fabric filters, model 36-8 TR "B", Pulse-Jet cleaning which serves the Westend Soda Ash Railroad Loadout and has the following specifications:
Exhaust Fan - 5 hp
36 bags - 470 ft2
Exhaust rate: 2,500 ACFM, ambient conditions
A/C ratio: 3.2:1
Each bag is 6 1/4" dia x 8'L

<u>PERMIT CONDITIONS:</u>

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. 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. This program shall include, but is not limited to, regular opacity reading, pressure differential measurements, and maintenance inspections. Logging of this data shall be required with the log kept on-site for a minimum of five (5) years. This log shall be made available to District, state or federal personnel upon request.

3. This equipment shall be operated concurrently with the soda ash railroad loadout system (District permit B000128).

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled,

on-site and be available to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405, and to establish PM10 at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

42. <u>BAGHOUSE (GREY) WEST; MDAQMD PERMIT # C002354:</u>

DCL Dust Collector, model 6-648-54-1005, which serves the Argus West Railcar Loadout facility and has the following:
ID Fan: 15 hp
Bags: 54, each 103"L x 5.8" dia for a total filter area of 702 ft2 and A/C ratio of 5.7:1, ambient conditions
Loading spouts: 1

<u>PERMIT CONDITIONS</u>:

1. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM10 (at a 0.85 fraction of TSP) in excess of 115 tons per year combined (verified through source tests and production records on a rolling twelve month summary basis): C000126, C000127, C000527, C000529, C000532, C000533, C000539, C000543, C000544, C000545, C000548, C000549, C000552, C000553, C000556, C002354, C002355, C003533, C003534, C003667, C003668, C003669, C003670, C003673, C003675, C003676, C003677, C004542, C004543, C004544.

2. 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. This program shall include, but is not limited to, regular opacity reading, pressure differential measurements, and maintenance inspections. Logging of this data shall be required with the log kept on-site for a minimum of five (5) years. This log shall be made available to District, state or federal personnel upon request.

3. This equipment shall be operated concurrently with the soda ash railroad loadout system (District permit B000128).

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment, as well as monthly throughput of the system or process controlled, on-site and be available to the District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and to establish PM10 emissions at a 0.85 fraction (lb/ton of throughput). Testing shall be every five years starting in 2001 and the test results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

43. ARGUS BOILER, FOSSIL FUEL FIRED (NO. 25); MDAQMD PERMIT # B000555:

Manufactured by Combustion Engineering. A tangentially fired unit with flue gas reheater and a maximum firing rate of 1025 MMBtu/hr and a steam output of 750,000 lb/hr at 1,500 psig/950 degrees F. This boiler is equipped with urea injection, SO2 absorber, and an electrostatic precipitator:

Capacity	Description
2.6	Fan, Forced Draft (1002 hp)
6.1	Fan, Induced Draft (2389 hp)
1,025.0	Burners, Low NOx - Combustion Engineering (1025 MMBtu/hr)
	Dampers, Separate Overfire Air - Combustion Engineering
	Urea Injection NOx Out Metering/Mixing Module, includes the following:
	Tanks, Urea storage - 2 @ 6,500 gal ea and common w/boiler 26
0.0	Pumps, transfer - 2 @ 1/2 hp ea, 1 a spare and common w/boiler 26
0.0	Pumps, NOx Out Additive - 2 @ 1 hp ea, 1 a spare
0.0	Pumps, Dilution Water - 2 @ 5 hp ea, 1 a spare
	Sulfur Trioxide Flue Gas Conditioning System, includes the following:
	Tank, Molten Sulfur - one @ 5,500 gal (40 tons) common w/boiler 26
0.0	Pumps, Sulfur Metering - 2 @ .75 hp ea, 1 a spare
6.1	Pumps, Boiler Feed - 1 steam driven @ 2,389 hp
	One electric 2,500 hp as backup for boilers 25 and 26
	Coal Feed System, includes the following:
0.0	Feeders, Volumetric 3 @ 1 hp ea
3.1	Mills, Bowl Feed - 3 @ 400 hp ea

PERMIT CONDITIONS:

1. The following emission limits are for the combined totals of this boiler (No. 25) and Boiler No. 26 (B000554) and shall not be exceeded at any firing rate:
   CO / 54.4 lb/hr* / NMHC / 12.0 lb/hr**
   NOx (as NO2) / 442 lb/hr* / PM / 111.0 lb/hr**
   SOx (as SO2) / 89.4 lb/hr* / PM10 / 90.0 lb/hr**
   Opacity / 20% / Sulfates / 46.5 lb/hr**
   Mercury / 2.2 E-05 lb per MMBtu of heat input, each boiler. Limit does not apply during startup and shutdown (as defined in 40 CFR Part 63 Subpart 63.11237).
   * These hourly rates, while monitored on CEMS, shall be based on a three-hour rolling average, computed every 15 minutes.
   ** These hourly rates shall be verified by the annual compliance tests which are required in Condition No. 2.
   [NSR; District Rule 204; 40 CFR Part 63 Subpart JJJJJJ for CO and Mercury; 40 CFR Part 64- CAM (for PM10)]

2. Annual compliance tests must be performed on this boiler and its pollution control equipment consisting of electrostatic precipitator C000557 and scrubber C000558. These tests must be performed in accordance with the District Compliance Test Procedural Manual. The test report shall be submitted to the District within 45 days following completion of testing but not later than six weeks prior to the expiration date of this

permit. The following compliance tests are required:
A. Oxides of nitrogen (NOx as NO2 in ppmv at 3% O2, dry basis and lb/hr).
B. NMHC (in ppmv at 3% O2, dry basis and lb/hr).
C. Oxides of sulfur (SOx as SO2 in ppmv at 3% O2, dry basis and lb/hr).
D. Carbon monoxide (in ppmv at 3% O2, dry basis and lb/hr).
E. PM, PM10 and sulfates (as milligram/cubic meter, at 3% O2, dry basis and lb/hr).
F. Flue gas flow rate (SCFM, dry basis).
[NSR]

3. The daily emission of the following pollutants CO, CO2, NOx (as NO2) and SOx (as SO2) as well as O2 (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS). CO2 mass emissions shall be calculated using CO2 CEMS and Continuous Emission Rate Monitoring System (CERMS). These systems shall be operating at all times in accordance with the District approved monitoring plan.
[NSR; 40 CFR Part 63 Subpart JJJJJJ; 40 CFR Part 64]

4. The following are the acceptability testing requirements for the CEMS, CERMS, and COMS:
A. For COMS (Opacity) - Performance Specification 1 of 40 CFR 60 Appendix B.
B. For SO2 and NOx CEMS - Performance Specification 2 of 40 CFR 60 Appendix B.
C. For O2 and CO2 CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
D. For CO CEMS - Performance Specification 4 of 40 CFR 60 Appendix B.
E. For CERMS – Performance Specification 6 of 40 CFR 60 Appendix B.
Note; CO2 emissions, CO2 CEMS and CERMS were installed per requirements of 40 CFR Part 98.
[CO CEMS per 40 CFR 63.11224; 40 CFR Part 64]

5. Electrostatic precipitator C000557 and scrubber C000558 shall be functional and operating under all conditions.

6. Until a digital acquisition system that is telemetrically compatible with District software is installed, quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan and shall present, but not be limited to, the following data on a daily basis:
A. CEMS data.
B. COMS data.
All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.
[NSR; 40 CFR Part 64]

7. During periods of startup and shutdown the concentration of oxides of nitrogen shall not exceed 300 ppm when calculated per District Rule 475:
A. Startup is defined as when steam output is increasing but has not reached an output of 400,000 lb/hr.

B. Shutdown is defined as when steam output is decreasing and the output is less than 400,000 lb/hr.
[Rule 475]

8. The NMHC emission rate given in Condition 1 above may be exceeded when the boilers are accepting vapor from the LLX basin, as long as the total NMHC emitted to the atmosphere from Boilers No. 25 & 26 and the LLX Basin (B000555, B000554 and B001916) does not exceed 773.6 pounds per day. Compliance with this condition shall be determined using records required by B001916, hours of operation and annual source testing for the boilers.

9. Particulate matter grain loading requirement of 0.01 gr/dscf and the NOx limit of 225 ppm shall be complied with.
[Rule 476 BACT]

44. <u>ESP; MDAQMD PERMIT # C000557:</u>
Argus Boiler No. 25 (District permit B000555) which is described as follows: Walther 704KVA electrostatic precipitator downstream from Boiler No. 25 and upstream from the sulfur dioxide scrubber. Exhaust gas from the boiler is moved through this ESP and the scrubber at the rate of 310,910 ACFM by a fan driven by a 2,389 hp steam turbine. Note: A portion of the scrubbed gas, i.e., downstream from the scrubber, is diverted to the MEA towers:

<u>PERMIT CONDITIONS:</u>

1. This equipment shall be operated concurrently with Boiler No. 25 (District permit B000555).

2. This equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The District, CARB, and USEPA are considering or have adopted Toxics and/or Hazardous emission standards for specific chemical materials. Any new regulations adopted or enforceable by the District, CARB, or USEPA, shall be incorporated as conditions to all affected permits henceforth issued by the District. Compliance tests shall be required as they become part of the permit and the owner/operator shall submit test plans which follow those described in the District's Compliance Test Procedural Manual.

45. <u>SCRUBBER - WET, NO. 25; MDAQMD PERMIT # C000558</u>:

Serves Argus Boiler No. 25 (District permit B000555) and includes the following, which are common to both this scrubber and scrubber covered by C000561:
Scrubber Recycle Pumps, 2 @ 100 hp ea (one is spare)
Scrubber Make-up Pumps, 2 @ 40 hp ea (one is spare)

PERMIT CONDITIONS:

1. All scrubber equipment shall be maintained/operated in strict accord to recommendations of the manufacturer/supplier and/or sound engineering principles.

2. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

3. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

4. This equipment shall be operated concurrently with Boiler No. 25 (B000555) and its ESP (C000557).

46. ARGUS BOILER, FOSSIL FUEL FIRED (NO. 26) - B000554:

Mfg. by Combustion Engineering, a tangentially fired unit with flue gas reheater and a maximum firing rate of 1025 MMBtu/hr and a steam output of 750,000 lb/hr at 1,500 psig/950 degrees F. This boiler is equipped with urea injection, an SO2 absorber and an electrostatic precipitator. Fee ratings are calculated assuming 2550 Btu per horsepower:

PERMIT CONDITIONS:

1. The following emission limits are for the combined totals of this boiler (No. 26) and boiler No. 25 (B000555) and shall not be exceeded at any firing rate:
CO / 54.4 lb/hr* / NMHC / 12.0 lb/hr**
NOx (as NO2) / 442 lb/hr* / PM / 111.0 lb/hr**
SOx (as SO2) / 89.4 lb/hr* / PM10 / 90.0 lb/hr**
Opacity / 20% / Sulfates / 46.5 lb/hr**
Mercury/ 2.2 E-05 lb per MMBtu of heat input, each boiler. Limit does not apply during startup and shutdown (as defined in 40 CFR Part 63 Subpart 63.11237).
*These hourly rates, while monitored on CEMS, shall be based on a 3-hour rolling average, computed every 15 minutes.
**These hourly rates shall be verified by the annual compliance tests which are required in Condition No. 2.
[NSR; District Rule 204; 40 CFR Part 63 Subpart JJJJJJ for CO and Mercury; 40 CFR Part 64- CAM (for PM10)]

2. Annual compliance tests must be performed on this boiler and its pollution control equipment consisting of electrostatic precipitator C000559 and scrubber C000561. These tests must be performed in accordance with the District Compliance Test Procedural Manual. The test report shall be submitted to the District within 45 days following completion of testing but not later than six weeks prior to the expiration date of this

permit. The following compliance tests are required:

A. Oxides of nitrogen (NOx as NO2 in ppmv at 3% O2, dry basis and lb/hr)
B. NMHC (in ppmv at 3% O2, dry basis and lb/hr)
C. Oxides of sulfur (SOx as SO2 in ppmv at 3% O2, dry basis and lb/hr)
D. Carbon monoxide (in ppmv at 3% O2, dry basis and lb/hr)
E. PM, PM10 and sulfates (as milligam/cubic meter, at 3% O2, dry basis and lb/hr)
F. Flue gas flow rate (SCFM, dry basis)

[NSR]

3. The daily emission of the following pollutants CO, CO2, NOx (as NO2) and SOx (as SO2) as well as O2 (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS). CO2 mass emissions shall be calculated using CO2 CEMS and Continuous Emission Rate Monitoring System (CERMS). These systems shall be operating at all times in accordance with the District approved monitoring plan.
[NSR; 40 CFR Part 63 Subpart JJJJJJ; 40 CFR Part 64]

4. The following are the acceptability testing requirements for the CEMS, CERMS, and COMS:

A. For COMS (Opacity) - Performance Specification 1 of 40 CFR 60 Appendix B.
B. For SO2 and NOx CEMS - Performance Specification 2 of 40 CFR 60 Appendix B.
C. For O2 and CO2 CEMS - Performance Specification 3 of 40 CFR 60 Appendix B.
D. For CO CEMS - Performance Specification 4 of 40 CFR 60 Appendix B.
E. For CERMS – Performance Specification 6 of 40 CFR 60 Appendix B.

Note; CO2 emissions, CO2 CEMS and CERMS were installed per requirements of 40 CFR Part 98.
[CO CEMS per 40 CFR 63.11224; 40 CFR Part 64]

5. Electrostatic precipitator C000559 and scrubber C000561 shall be functional and operating under all conditions.

6. Until a digital acquisition system that is telemetrically compatible with District software is installed, quarterly reports shall be provided to the District Compliance Supervisor in accordance with the District approved monitoring plan and shall be present, but not be limited to, the following data on a daily basis:

A. CEMS data
B. COMS data

All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter.
[NSR; 40 CFR Part 64]

7. During periods of startup and shutdown the concentration of oxides of nitrogen shall not exceed 300 ppm when calculated per District Rule 475.

A. Startup is defined as when steam output is increasing but has not reached an output of 400,000lb/hr.

B. Shutdown is defined as when steam output is decreasing and the output is less than 400,000 lb/hr.
[Rule 475]

8. The NMHC emission rate given in Condition 1 above may be exceeded when the boilers are accepting vapor from the LLX basin, as long as the total NMHC emitted to the atmosphere from Boilers No. 25 & 26 and the LLX Basin (B000555, B000554 and B001916) does not exceed 773.6 pounds per day. Compliance with this condition shall be determined using records required by B001916, hours of operation and annual source testing for the boilers.

9. Particulate matter grain loading requirement of 0.01 gr/dscf and the NOx limit of 225 ppm shall be complied with.
[Rule 476]
[BACT]

47. <u>ESP; MDAQMD PERMIT # C000559:</u>
Argus Boiler No. 26 (District permit B000554) which is described as follows:
Walther 704KVA electrostatic precipitator downstream from Boiler No. 26 and upstream from the sulfur dioxide scrubber. Exhaust gas from the boiler is moved through this ESP and the scrubber at the rate of 310,910 ACFM by a fan driven by a 2,389 hp steam turbine. Note: A portion of the scrubbed gas, i.e., downstream from the scrubber, is diverted to the MEA towers:

<u>PERMIT CONDITIONS:</u>

1. This equipment shall be operated concurrently with Boiler No. 26 (District permit B000554).

2. This equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

5. The District, CARB, and USEPA are considering or have adopted Toxics and/or Hazardous emission standards for specific chemical materials. Any new regulations adopted or enforceable by the District, CARB, or USEPA, shall be incorporated as conditions to all affected permits henceforth issued by the District. Compliance tests shall be required as they become part of the permit and the owner / operator shall submit test plans which follow those described in the District's Compliance Test Procedural Manual.

48. SCRUBBER - WET NO. 26; MDAQMD PERMIT # C000561:

Serves Argus Boiler No. 26 (District permit B000554) and includes the following, which are common to both this scrubber and scrubber covered by C000558:
Scrubber Recycle Pumps, 2 @ 100 hp ea (one is spare)
Scrubber Make-up Pumps, 2 @ 40 hp ea (one is spare)

PERMIT CONDITIONS:

1. This equipment shall be operated concurrently with Boiler No. 26 (B000554) and its ESP (C000559).

2. This equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The maintenance/inspection program shall be in accordance with the manufacturer's recommendations and/or sound engineering principles.

4. The owner / operator shall maintain a log of all inspections, repairs, and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum period of five (5) years.

48-A.

THE FOLLOWING NSPS REQUIREMENTS APPLY TO ARGUS BOILER'S, MDAQMD PERMIT's B000555 AND B000554 (BOILER #s 25 & #26, Item # 43 to 48, above);
Subpart D--Standards Of Performance For Fossil-Fuel Fired Steam Generators For Which Construction Is Commenced After August 17, 1971
60.40

40 CFR §60.41 Definitions (applicable part):
As used in this subpart, all terms not defined herein shall have the meaning given them in the Act, and in Subpart A of this part.
(a) Fossil-fuel fired steam generating unit means a furnace or boiler used in the process of burning fossil fuel for the purpose of producing steam by heat transfer.
(b) Fossil fuel means natural gas, petroleum, coal, and any form of solid, liquid, or gaseous fuel derived from such materials for the purpose of creating useful heat.
[39 FR 20791, June 14, 1974, as amended at 40 FR 2803, Jan. 16, 1975; 41 FR 51398, Nov. 22, 1976; 43 FR 9278, Mar. 7, 1978; 48 FR 3736, Jan. 27, 1983; 65 FR 61744, Oct. 17, 2000]

40 CFR §60.42 Standard For Particulate Matter (applicable part):
(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which:

(a)(1) Contain particulate matter in excess of 43 nanograms per joule heat input (0.10 lb per million Btu) derived from fossil fuel or fossil fuel and wood residue.
(a)(2) Exhibit greater than 20 percent opacity except for one six-minute period per hour of not more than 27 percent opacity.
[39 FR 20792, June 14, 1974, as amended at 41 FR 51398, Nov. 22, 1976; 42 FR 61537, Dec. 5, 1977; 44 FR 76787, Dec. 28, 1979; 45 FR 36077, May 29, 1980; 45 FR 47146, July 14, 1980; 46 FR 57498, Nov. 24, 1981; 61 FR 49974, Sept. 24, 1996; 65 FR 61744, Oct. 17, 2000]

40 CFR §60.43 Standard For Sulfur Dioxide (applicable part):
(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which contain sulfur dioxide in excess of:
(a)(1) 340 nanograms per joule heat input (0.80 lb per million Btu) derived from liquid fossil fuel or liquid fossil fuel and wood residue.
(a)(2) 520 nanograms per joule heat input (1.2 lb per million Btu) derived from solid fossil fuel or solid fossil fuel and wood residue, except as provided in paragraph (e) of this section.
(b) When different fossil fuels are burned simultaneously in any combination, the applicable standard (in ng/J) shall be determined by proration using the following formula:

$$PSSO2 = [y(340) + z(520)]/(y + z)$$

where:
PSSO2 is the prorated standard for sulfur dioxide when burning different fuels simultaneously, in nanograms per joule heat input derived from all fossil fuels fired or from all fossil fuels and wood residue fired,
y is the percentage of total heat input derived from liquid fossil fuel,
and
z is the percentage of total heat input derived from solid fossil fuel.
(c) Compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels.
(d) [Reserved]
[39 FR 20792, June 14, 1974, as amended at 41 FR 51398, Nov. 22, 1976; 52 FR 28954, Aug. 4, 1987]

40 CFR §60.44 Standard For Nitrogen Oxides (applicable part):
(a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which contain nitrogen oxides, expressed as NO2 in excess of:
(a)(1) 86 nanograms per joule heat input (0.20 lb per million Btu) derived from gaseous fossil fuel.
[39 FR 20792, June 14, 1974, as amended at 41 FR 51398, Nov. 22, 1976;

43 FR 9278, Mar. 7, 1978; 51 FR 42797, Nov. 25, 1986]

40 CFR §60.45 Emission And Fuel Monitoring (applicable part):
(a) Each owner or operator shall install, calibrate, maintain, and operate continuous monitoring systems for measuring the opacity of emissions, sulfur dioxide emissions, nitrogen oxides emissions, and either oxygen or carbon dioxide except as provided in paragraph (b) of this section.
(b) Certain of the continuous monitoring system requirements under paragraph (a) of this section do not apply to owners or operators under the following conditions:
(b)(1) For a fossil fuel-fired steam generator that burns only gaseous fossil fuel, continuous monitoring systems for measuring the opacity of emissions and sulfur dioxide emissions are not required **(Applies to SWM boilers)**.
(b)(2) For a fossil fuel-fired steam generator that does not use a flue gas desulfurization device, a continuous monitoring system for measuring sulfur dioxide emissions is not required if the owner or operator monitors sulfur dioxide emissions by fuel sampling and analysis.
(b)(3) Notwithstanding §60.13(b), installation of a continuous monitoring system for nitrogen oxides may be delayed until after the initial performance tests under §60.8 have been conducted. If the owner or operator demonstrates during the performance test that emissions of nitrogen oxides are less than 70 percent of the applicable standards in §60.44, a continuous monitoring system for measuring nitrogen oxides emissions is not required. If the initial performance test results show that nitrogen oxide emissions are greater than 70 percent of the applicable standard, the owner or operator shall install a continuous monitoring system for nitrogen oxides within one year after the date of the initial performance tests under §60.8 and comply with all other applicable monitoring requirements under this part.
(b)(4) If an owner or operator does not install any continuous monitoring systems for sulfur oxides and nitrogen oxides, as provided under paragraphs (b)(1) and (b)(3) or paragraphs (b)(2) and (b)(3) of this section a continuous monitoring system for measuring either oxygen or carbon dioxide is not required.
(c) For performance evaluations under §60.13(c) and calibration checks under §60.13(d) the following procedures shall be used:
(c)(1) Methods 6, 7, and 3B, as applicable, shall be used for the performance evaluations of sulfur dioxide and nitrogen oxides continuous monitoring systems. Acceptable alternative methods for Methods 6, 7, and 3B are given in §60.46(d).
(c)(2) Sulfur dioxide or nitric oxide, as applicable, shall be used for preparing calibration gas mixtures under Performance Specification 2 of Appendix B to this part.
(c)(3) For affected facilities burning fossil fuel(s), the span value for a continuous monitoring system measuring the opacity of emissions shall be 80, 90, or 100 percent and for a continuous monitoring system measuring sulfur oxides or nitrogen span value shall be determined as follows:

[In parts per million]

Fossil fuel	Span value for sulfur dioxide	Span value for nitrogen oxides
Gas	(1)	500
Liquid	1,000	500
Solid	1,500	1000
Combinations	1,000y + 1,500z	500(x + y) + 1,000z

1 Not applicable.
where:
x = the fraction of total heat input derived from gaseous fossil fuel, and
y = the fraction of total heat input derived from liquid fossil fuel, and
z = the fraction of total heat input derived from solid fossil fuel.
(c)(4) All span values computed under paragraph (c)(3) of this section for burning combinations of fossil fuels shall be rounded to the nearest 500 ppm.
(c)(5) For a fossil fuel-fired steam generator that simultaneously burns fossil fuel and nonfossil fuel, the span value of all continuous monitoring systems shall be subject to the Administrator's approval.
(d) [Reserved]
(e) For any continuous monitoring system installed under paragraph (a) of this section, the following conversion procedures shall be used to convert the continuous monitoring data into units of the applicable standards (ng/J, lb/million Btu):
(e)(1) When a continuous monitoring system for measuring oxygen is selected, the measurement of the pollutant concentration and oxygen concentration shall each be on a consistent basis (wet or dry). Alternative procedures approved by the Administrator shall be used when measurements are on a wet basis. When measurements are on a dry basis, the following conversion procedure shall be used:

$$E = CF[20.9/(20.9\text{--percent } O_2)]$$

where:
E, C, F, and % O_2 are determined under paragraph (f) of this section.
(e)(2) When a continuous monitoring system for measuring carbon dioxide is selected, the measurement of the pollutant concentration and carbon dioxide concentration shall each be on a consistent basis (wet or dry) and the following conversion procedure shall be used:

$$E = CFc[100/\text{percent } CO_2]$$

where:
E, C, Fc and % CO_2 are determined under paragraph (f) of this section.
(f) The values used in the equations under paragraphs (e)(1) and (2) of this section are derived as follows:
(f)(1) E = pollutant emissions, ng/J (lb/million Btu).
(f)(2) C = pollutant concentration, ng/dscm (lb/dscf), determined by multiplying the average concentration (ppm) for each one-hour period by 4.15 x 104 M

ng/dscm per ppm (2.59 x 10-9 M lb/dscf per ppm) where M = pollutant molecular weight, g/g-mole (l b/lb-mole). M = 64.07 for sulfur dioxide and 46.01 for nitrogen oxides.
(f)(3) % O2, % CO2 = oxygen or carbon dioxide volume (expressed as percent), determined with equipment specified under paragraph (a) of this section.
(f)(4) F, Fc = a factor representing a ratio of the volume of dry flue gases generated to the calorific value of the fuel combusted (F), and a factor representing a ratio of the volume of carbon dioxide generated to the calorific value of the fuel combusted (Fc), respectively. Values of F and Fc are given as follows:
(f)(4)(iv) For gaseous fossil fuels, F = 2.347 x 10-7 dscm/J (8,740 dscf/million Btu). For natural gas, propane, and butane fuels, Fc = 0.279 x 10-7 scm CO 2/J (1,040 scf CO2/million Btu) for natural gas, 0.322 X 10-7 scm CO2/J (1,200 scf CO2/million Btu) for propane, and 0.338 x 10-7 scm CO2/J (1,260 scf CO2/million Btu) for butane.
(f)(5) The owner or operator may use the following equation to determine an F factor (dscm/J or dscf/million Btu) on a dry basis (if it is desired to calculate F on a wet basis, consult the Administrator) or Fc factor (scm CO2/J, or scf CO2/million Btu) on either basis in lieu of the F or Fc factors specified in paragraph (f)(4) of this section:

$$F = 10\text{-}6 \frac{[227.2 (\text{pct. II}) + 95.5 (\text{pct. C}) + 35.6 (\text{pct. S}) + 8.7 (\text{pct. N}) - 28.7 (\text{pct. O})]}{\text{GCV}}$$

$$Fc = \frac{2.0 \times 10\text{-}5 (\text{pct. C})}{\text{GCV (SI units)}}$$

$$F = \frac{106[3.64(\%\ H) + 1.53(\%\ C) + 0.57(\%\ S) + 0.14(\%\ N) - 0.46(\%\ O)]}{\text{GCV (English units)}}$$

$$Fc = \frac{20.0(\%\ C)}{\text{GCV (SI units)}}$$

$$Fc = \frac{321 \times 103(\%\ C)}{\text{GCV (English units)}}$$

(f)(5)(i) H, C, S, N, and O are content by weight of hydrogen, carbon, sulfur, nitrogen, and oxygen (expressed as percent), respectively, as determined on the same basis as GCV by ultimate analysis of the fuel fired, using ASTM D3178-73 (Reapproved 1979), 89, or D3176-74 or 89 (solid fuels) or computed from results using ASTM D1137-53 or 75, D1945-64, 76, 91, or 96 or D1946-77 or 90 (Reapproved 1994) (gaseous fuels) as applicable. (These five methods are incorporated by reference--see §60.17.)
(f)(5)(ii) GVC is the gross calorific value (kJ/kg, Btu/lb) of the fuel combusted determined by the ASTM test methods ASTM D2015-77 (Reapproved 1978), 96, or D5865-98 for solid fuels and ASTM D1826-77 or 94 for gaseous fuels

as applicable. (These two methods are incorporated by reference--see 60.17.)
(f)(5)(iii) For affected facilities which fire both fossil fuels and nonfossil fuels, the F or Fc value shall be subject to the Administrator's approval.
(g) Excess emission and monitoring system performance reports shall be submitted to the Administrator semiannually for each six-month period in the calendar year. All semiannual reports shall be postmarked by the 30th day following the end of each six-month period. Each excess emission and MSP report shall include the information required in §60.7(c). Periods of excess emissions and monitoring systems (MS) downtime that shall be reported are defined as follows:
(g)(1) Opacity. Excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 20 percent opacity, except that one six-minute average per hour of up to 27 percent opacity need not be reported.
(g)(1)(i) For sources subject to the opacity standard of §60.42(b)(1) excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 35 percent opacity, except that one six-minute average per hour of up to 42 percent opacity need not be reported.
(g)(1)(ii) For sources subject to the opacity standard of §60.42(b)(2) excess emissions are defined as any six-minute period during which the average opacity of emissions exceeds 32 percent opacity, except that one six-minute average per hour of up to 39 percent opacity need not be reported.
(g)(2) Sulfur dioxide. Excess emissions for affected facilities are defined as:
(g)(2)(i) Any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) of sulfur dioxide as measured by a continuous monitoring system exceed the applicable standard under §60.43.
(g)(3) Nitrogen oxides. Excess emissions for affected facilities using a continuous monitoring system for measuring nitrogen oxides are defined as any three-hour period during which the average emissions (arithmetic average of three contiguous one-hour periods) exceed the applicable standards under §60.44.

[40 FR 46256, Oct. 6, 1975; 61 FR 49974, Sept. 24, 1996; 64 FR 7458, Feb. 12, 1999; 65 FR 61744, Oct. 17, 2000]

40 CFR §60.46 Test Methods And Procedures (applicable part):
(a) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in Appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b). Acceptable alternative methods and procedures are given in paragraph (d) of this section.
(b) The owner or operator shall determine compliance with the particulate matter, SO2, and NOx standards in §§60.42, 60.43, and 60.44 as follows:
(b)(1) The emission rate (E) of particulate matter, SO2, or NOx shall be computed for each run using the following equation:

$$E = C\ Fd\ (20.9)/(20.9 - \%\ O2)$$

E = emission rate of pollutant, ng/J (1b/million Btu).
C = concentration of pollutant, ng/dscm (1b/dscf).
% O2 = oxygen concentration, percent dry basis.
Fd = factor as determined from Method 19.
(b)(2) Method 5 shall be used to determine the particular matter concentration (C) at affected facilities without wet flue-gas-desulfurization (FGD) systems and Method 5B shall be used to determine the particulate matter concentration (C) after FGD systems.
(b)(2)(i) The sampling time and sample volume for each run shall be at least 60 minutes and 0.85 dscm (30 dscf). The probe and filter holder heating systems in the sampling train shall be set to provide an average gas temperature of 160 ± 14 °C (320 ± 25 °F).
(b)(2)(ii) The emission rate correction factor, integrated or grab sampling and analysis procedure of Method 3B shall be used to determine the O2 concentration (% O2). The O2 sample shall be obtained simultaneously with, and at the same traverse points as, the particulate sample. If the grab sampling procedure is used, the O2 concentration for the run shall be the arithmetic mean of the sample O2 concentrations at all traverse points.
(b)(2)(iii) If the particulate run has more than 12 traverse points, the O2 traverse points may be reduced to 12 provided that Method 1 is used to locate the 12 O2 traverse points.
(b)(3) Method 9 and the procedures in §60.11 shall be used to determine opacity.
(b)(4) Method 6 shall be used to determine the SO2 concentration.
(b)(4)(i) The sampling site shall be the same as that selected for the particulate sample. The sampling location in the duct shall be at the centroid of the cross section or at a point no closer to the walls than 1 m (3.28 ft). The sampling time and sample volume for each sample run shall be at least 20 minutes and 0.020 dscm (0.71 dscf). Two samples shall be taken during a 1-hour period, with each sample taken within a 30-minute interval.
(b)(4)(ii) The emission rate correction factor, integrated sampling and analysis procedure of Method 3B shall be used to determine the O2 concentration (% O2). The O2 sample shall be taken simultaneously with, and at the same point as, the SO2 sample. The SO2 emission rate shall be computed for each pair of SO2 and O2 samples. The SO2 emission rate (E) for each run shall be the arithmetic mean of the results of the two pairs of samples.
(b)(5) Method 7 shall be used to determine the NOx concentration.
(b)(5)(i) The sampling site and location shall be the same as for the SO2 sample. Each run shall consist of four grab samples, with each sample taken at about 15-minute intervals.
(b)(5)(ii) For each NOx sample, the emission rate correction factor, grab sampling and analysis procedure of Method 3B shall be used to determine the O2 concentration (% O2). The sample shall be taken simultaneously with, and at the same point as, the. NOx sample.
(b)(5)(iii) The NOx emission rate shall be computed for each pair of NOx

and O2 samples. The NOx emission rate (E) for each run shall be the arithmetic mean of the results of the four pairs of samples.
(c) When combinations of fossil fuels or fossil fuel and wood residue are fired, the owner or operator (in order to compute the prorated standard as shown in §§60.43(b) and 60.44(b)) shall determine the percentage (w, x, y, or z) of the total heat input derived from each type of fuel as follows:
(c)(1) The heat input rate of each fuel shall be determined by multiplying the gross calorific value of each fuel fired by the rate of each fuel burned.
(c)(2) ASTM Methods D2015-77 (Reapproved 1978), 96, or D5865-98 (solid fuels), D240-76 or 92 (liquid fuels), or D1826-77 or 94 (gaseous fuels) (incorporated by reference--see §60.17) shall be used to determine the gross calorific values of the fuels. The method used to the calorific value of wood residue must be approved by the Administrator.
(c)(3) Suitable methods shall be used to determine the rate of each fuel burned during each test period, and a material balance over the steam generating system shall be used to confirm the rate.
(d) The owner or operator may use the following as alternatives to the reference methods and procedures in this section or in other sections as specified:
(d)(1) The emission rate (E) of particulate matter, SO2 and NOx may be determined by using the Fc factor, provided that the following procedure is used:
(d)(1)(i) The emission rate (E) shall be computed using the following equation:

$$E = C\ Fc\ (100/\ \%\ CO2)$$

where:
E = emission rate of pollutant, ng/J (lb/million Btu).
C = concentration of pollutant, ng/dscm (lb/dscf).
% CO2 = carbon dioxide concentration, percent dry basis.
Fc = factor as determined in appropriate sections of Method 19.
(d)(1)(ii) If and only if the average Fc factor in Method 19 is used to calculate E and either E is from 0.97 to 1.00 of the emission standard or the relative accuracy of a continuous emission monitoring system is from 17 to 20 percent, then three runs of Method 3B shall be used to determine the O2 and CO2 concentration according to the procedures in paragraph (b)(2)(ii), (4)(ii), or (5)(ii) of this section. Then if Fo (average of three runs), as calculated from the equation in Method 3B, is more than ± 3 percent than the average Fo value, as determined from the average values of Fd and Fc in Method 19, i.e., Foa = 0.209 (Fda/Fca), then the following procedure shall be followed:
(d)(1)(ii)(A) When Fo is less than 0.97 Foa, then E shall be increased by that proportion under 0.97 Foa, e.g., if Fo is 0.95 Foa, E shall be increased by 2 percent. This recalculated value shall be used to determine compliance with the emission standard.
(d)(1)(ii)(B) When Fo is less than 0.97 Foa and when the average difference (d) between the continuous monitor minus the reference methods is negative, then E shall be increased by that proportion under 0.97 Foa, e.g., if Fo is 0.95 Foa, E shall be increased 2 percent. This recalculated value shall be

used to determine compliance with the relative accuracy specification.
(d)(1)(ii)(C) When Fo is greater than 1.03 Foa and when the average difference d is positive, then E shall be decreased by that proportion over 1.03 Foa, e.g., if Fo is 1.05 Foa, E shall be decreased by 2 percent. This recalculated value shall be used to determine compliance with the relative accuracy specification.
(d)(2) For Method 5 or 5B, Method 17 may be used at facilities with or without wet FGD systems if the stack gas temperature at the sampling location does not exceed an average temperature of 160 °C (320 °F). The procedures of sections 2.1 and 2.3 of Method 5B may be used with Method 17 only if it is used after wet FGD systems. Method 17 shall not be used after wet FGD systems if the effluent gas is saturated or laden with water droplets.
(d)(3) Particulate matter and SO2 may be determined simultaneously with the Method 5 train provided that the following changes are made:
(d)(3)(i) The filter and impinger apparatus in sections 2.1.5 and 2.1.6 of Method 8 is used in place of the condenser (section 2.1.7) of Method 5.
(d)(3)(ii) All applicable procedures in Method 8 for the determination of SO2 (including moisture) are used:
(d)(4) For Method 6, Method 6C may be used. Method 6A may also be used whenever Methods 6 and 3B data are specified to determine the SO2 emission rate, under the conditions in paragraph (d)(1) of this section.
(d)(5) For Method 7, Method 7A, 7C, 7D, or 7E may be used. If Method 7C, 7D, or 7E is used, the sampling time for each run shall be at least 1 hour and the integrated sampling approach shall be used to determine the O2 concentration (% O2) for the ate correction factor.
(d)(6) For Method 3, Method 3A or 3B may be used.
(d)(7) For Method 3B, Method 3A may be used.
[54 FR 6662, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 55 FR 5212, Feb. 14, 1990; 65 FR 61744, Oct. 17, 2000]

48-B National Emission Standards for Hazardous Air Pollutants for Area Sources: Industrial, Commercial, and Institutional Boilers 40 CFR Part 63 Subpart JJJJJJ Title V Permit Conditions

AFFECTED SOURCE OF THIS SUBPART

Boiler 25 and Boiler 26 are existing coal fired boiler (industrial) and both have a design maximum heat input capacity of 1025 MMBtu/hr located at area source. [40 CFR 63.11194(a) (1), 40 CFR 63.11200(a)]

EMISSION LIMITS

Table 1 to Subpart JJJJJJ of Part 63—Emission Limits

Pursuant to §63.11201, the permitee must comply with the following applicable emission limits:

If your boiler is in this subcategory.	**For the following pollutants.**	**You must achieve less than or equal to the following emission limits, except during periods of startup and shutdown.**
Existing coal-fired boilers with heat input capacity of 10 MMBtu/hr or greater that do not meet the definition of limited-use boiler	a. Mercury b. CO	2.2E-05 lb per MMBtu of heat input. 420 ppm by volume on a dry basis corrected to 3 percent oxygen (10 day rolling average).

WORK PRACTICE STANDARDS, EMISSION REDUCTION MEASURES, AND MANAGEMENT PRACTICES

Table 2 to Subpart JJJJJJ of Part 63—Work Practice Standards, Emission Reduction Measures, and
Management Practices

Pursuant to §63.11201, the permitee must comply with the following applicable work practice standards, emission reduction measures, and management practices:

If your boiler is in this subcategory.	**You must meet the following**
Existing or new coal-fired, new biomass-fired, or new oil-fired boilers (units with heat input capacity of 10 MMBtu/hr or greater)	Minimize the boiler's startup and shutdown periods and conduct startups and shutdowns according to the manufacturer's recommended procedures. If manufacturer's recommended procedures are not available, you must follow recommended procedures for a unit of similar design for which manufacturer's recommended procedures are available

If your boiler is in this subcategory.	**You must meet the following**
Existing coal-fired, biomass-fired, or oil-fired boilers (units with heat input capacity of 10 MMBtu/hr and greater), not including limited-use boilers	Must have a one-time energy assessment performed by a qualified energy assessor. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements in this table satisfies the energy assessment requirement. Energy assessor approval and qualification requirements are waived in instances where past or amended energy assessments are used to meet the energy assessment requirements. A facility that operates under anenergy management program compatible with ISO 50001 that includes the affected units also satisfies the energy assessment requirement. The energy assessment must include the following with extent of the evaluation for items (1) to (4)
	(1) A visual inspection of the boiler system,
	(2) An evaluation of operating characteristics of the affected boiler systems, specifications of energy use systems, operating and maintenance procedures, and unusual operating constraints,
	(3) An inventory of major energy use systems consuming energy from affected boiler(s) and which are under control of the boiler owner or operator,
	(4) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
	(5) A list of major energy conservation measures that are within the facility's control,
	(6) A list of the energy savings potential of the energy conservation measures identified, and
	(7) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.

Table 3 to Subpart JJJJJJ of Part 63—Operating Limits for Boilers With Emission Limits

Pursuant to §63.11201, the permitee must comply with the applicable operating limits:

If you demonstrate compliance with applicable emission limits using. . .	**You must meet these operating limits except during periods of startup and shutdown. . .**
Fuel analysis	Maintain the fuel type or fuel mixture (annual average) such that the mercury emission rate calculated according to §63.11211(c) are less than the applicable emission limit for mercury.

Pursuant to §63.11212, boilers that use a CEMS for carbon monoxide (CO) are exempt from the initial CO performance testing in Table 4 to this subpart and the oxygen concentration operating limit requirement specified in Table 3 to this subpart.

FUEL ANALYSIS REQUIREMENTS

Pursuant to §63.11211(c), §63.11213 and Table 5 to this subpart, the permitee must comply with the following fuel analysis requirements

§63.11211(c): If you elect to demonstrate compliance with an applicable mercury emission limit through fuel analysis, you must conduct fuel analyses according to §63.11213 and Table 5 to this subpart and follow the procedures in paragraphs (c)(1) through (3) of this section.

(1) If you burn more than one fuel type, you must determine the fuel type, or mixture, you could burn in your boiler that would result in the maximum emission rates of mercury.

(2) You must determine the 90th percentile confidence level fuel mercury concentration of the composite samples analyzed for each fuel type using Equation 1 of this section.

$$P_{90} = \text{mean} + (SD * t) \quad \text{(Eq. 1)}$$

Where:

P_{90} = 90th percentile confidence level mercury concentration, in pounds per million Btu.

mean = Arithmetic average of the fuel mercury concentration in the fuel samples analyzed according to
§63.11213, in units of pounds per million Btu.

SD = Standard deviation of the mercury concentration in the fuel samples analyzed according to §63.11213, in units of pounds per million Btu.

t = t distribution critical value for 90th percentile (0.1) probability for the appropriate degrees of freedom

(number of samples minus one) as obtained from a Distribution Critical Value Table.

(3) To demonstrate compliance with the applicable mercury emission limit, the emission rate that you calculate for your boiler using Equation 1 of this section must be less than the applicable mercury emission limit.

§63.11213: (a) You must conduct fuel analyses according to the procedures in paragraphs (b) and (c) of this section and Table 5 to this subpart, as applicable. You are not required to conduct fuel analyses for fuels used for only startup, unit shut down, and transient flame stability purposes. You are required to conduct fuel analyses only for fuels and units that are subject to emission limits for mercury in Table 1 of this subpart.

(b) At a minimum, you must obtain three composite fuel samples for each fuel type according to the procedures in Table 5 to this subpart. Each composite sample must consist of a minimum of three samples collected at approximately equal intervals during a test run period.

(c) Determine the concentration of mercury in the fuel in units of pounds per million Btu of each composite sample for each fuel type according to the procedures in Table 5 to this subpart.

Table 5 to Subpart JJJJJJ of Part 63—Fuel Analysis Requirements

Pursuant to §63.11213, the permitee must comply with the following requirements for fuel analysis testing for affected sources:

To conduct a fuel analysis for the following pollutant. . .	**You must. . .**	**Using. . .**
Mercury	a. Collect fuel samples	Procedure in §63.11213(b) or ASTM D2234/D2234M[a] (for coal) or ASTM D6323[a] (for biomass) or equivalent.
	b. Compose fuel samples	Procedure in §63.11213(b) or equivalent.
	c. Prepare composited fuel samples	EPA SW-846-3050B[a] (for solid samples) or EPA SW-846-3020A[a](for liquid samples) or ASTM D2013/D2013M[a] (for coal) or ASTM D5198[a] (for biomass) or equivalent.
	d. Determine heat content of the fuel type	ASTM D5865[a] (for coal) or ASTM E711[a] (for biomass) or equivalent.

	e. Determine moisture content of the fuel type	ASTM D3173[a] or ASTM E871[a] or equivalent.
	f. Measure mercury concentration in fuel sample	ASTM D6722[a] (for coal) or EPA SW-846-7471B[a] (for solid samples) or EPA SW-846-7470A[a] (for liquid samples) or equivalent.
	g. Convert concentrations into units of lb/MMBtu of heat content	

Table 6 to Subpart JJJJJJ of Part 63—Establishing Operating Limits

Pursuant to §63.11211, the permitee must comply with the following requirements for establishing operating limits:

For affected boilers that burn a single type of fuel, you are exempted from the compliance requirements of conducting a fuel analysis for each type of fuel burned in your boiler. For purposes of this subpart, boilers that use a supplemental fuel only for startup, unit shut down, and transient flame stability purposes still qualify as affected boilers that burn a single type of fuel, and the supplemental fuel is not subject to the fuel analysis requirements under §63.11213 and Table 5 to this subpart.

As stated in §63.11220, if you demonstrate compliance with the mercury emission limit based on fuel analysis, you must conduct a fuel analysis according to §63.11213 for each type of fuel burned as specified in paragraphs (c)(1) and (2) of this section. If you plan to burn a new type of fuel or fuel mixture, you must conduct a fuel analysis before burning the new type of fuel or mixture in your boiler. You must recalculate the mercury emission rate using Equation 1 of §63.11211. The recalculated mercury emission rate must be less than the applicable emission limit.

(1) When demonstrating initial compliance with the mercury emission limit, if the mercury constituents in the fuel or fuel mixture are measured to be equal to or less than half of the mercury emission limit, you do not need to conduct further fuel analysis sampling but must continue to comply with all applicable operating limits and monitoring requirements.

(2) When demonstrating initial compliance with the mercury emission limit, if the mercury constituents in the fuel or fuel mixture are greater than half of the mercury emission limit, you must conduct quarterly sampling.

Pursuant to §63.11224, if your boiler is subject to a CO emission limit in Table 1 to this subpart, you must install, operate, and maintain a CEMS for CO and oxygen according to the procedures in paragraphs (a)(1) through (6) of this section. Boilers that use a CO CEMS are exempt from the initial CO performance testing and oxygen concentration operating limit requirements specified in §63.11211(a) of this subpart.

(1) Each CO CEMS must be installed, operated, and maintained according to the applicable procedures under Performance Specification 4, 4A, or 4B at 40 CFR part 60, appendix B, and each oxygen CEMS must be installed, operated, and maintained according to Performance Specification 3 at 40 CFR part 60, appendix B. Both the CO and oxygen CEMS must also be installed, operated, and maintained according to the site-specific monitoring plan developed according to paragraph (c) of this section.

(2) You must conduct a performance evaluation of each CEMS according to the requirements in §63.8(e) and according to Performance Specifications 3 and 4, 4A, or 4B at 40 CFR part 60, appendix B.

(3) Each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) every 15 minutes. You must have CEMS data values from a minimum of four successive cycles of operation representing each of the four 15-minute periods in an hour, or at least two 15-minute data values during an hour when CEMS calibration, quality assurance, or maintenance activities are being performed, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in §63.8(g)(2).

(5) You must calculate hourly averages, corrected to 3 percent oxygen, from each hour of CO CEMS data in parts per million CO concentrations and determine the 10-day rolling average of all recorded readings, except as provided in §63.11221(c). Calculate a 10-day rolling average from all of the hourly averages collected for the
10-day operating period using Equation 2 of this section.

$$\text{10-day average} = \frac{\Sigma_{i=1}^{n} Hpvi}{n} \qquad \text{(Eq.2)}$$

Where:

Hpvi = the hourly parameter value for hour i

n = the number of valid hourly parameter values collected over 10 boiler operating days

(6) For purposes of collecting CO data, you must operate the CO CEMS as specified in §63.11221(b). For purposes of calculating data averages, you must use all the data collected during all periods in assessing compliance, except that you must exclude certain data as specified in §63.11221(c). Periods when CO data are unavailable may constitute monitoring deviations as specified in §63.11221(d).

Table 7 to Subpart JJJJJJ of Part 63—Demonstrating Continuous Compliance

Pursuant to §63.11222, the permitee must show continuous compliance with the emission limitations for affected sources according to the following:

If you must meet the following operating limits. . .	**You must demonstrate continuous compliance by. . .**
Fuel Pollutant Content	a. Only burning the fuel types and fuel mixtures used to demonstrate compliance with the applicable emission limit according to §63.11213 as applicable; and
	b. Keeping monthly records of fuel use according to §§63.11222(a)(2) and 63.11225(b)(4).
CO emissions	a. Continuously monitoring the CO concentration in the combustion exhaust according to §§63.11224 and 63.11221; and
	b. Correcting the data to 3 percent oxygen, and reducing the data to 1-hour averages; and
	c. Reducing the data from the hourly averages to 10-day rolling averages; and
	d. Maintaining the 10-day rolling average CO concentration at or below the applicable emission limit in Table 1 to this subpart.

NOTIFICATION, REPORTING, AND RECORDKEEPING REQUIREMENTS

Pursuant to §63.11225, the permitee must comply with the following applicable requirements:

(a) You must submit the notifications specified in paragraphs (a)(1) through (3) of this section to the administrator.

(1) You must submit all of the notifications in §§63.7(b); 63.8(e) and (f); and 63.9(b) through (e), (g), and (h) that apply to you by the dates specified in those sections except as specified in paragraphs (a)(2) and (4) of this section.

(2) An Initial Notification must be submitted no later than January 20, 2014 or within 120 days after the source becomes subject to the standard.

(3) You must submit the Notification of Compliance Status no later than 120 days after the applicable compliance date specified in §63.11196. You must submit the Notification of Compliance Status in accordance with paragraphs (a)(4)(i) and (vi) of this section. The Notification of Compliance Status must include the information and certification(s) of compliance in paragraphs (a)(4)(i) through (v) of this section, as applicable, and signed by a responsible official.

(i) You must submit the information required in §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F).

(ii) "This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler."

(iii) "This facility has had an energy assessment performed according to §63.11214(c)."

(iv) For units that install bag leak detection systems: "This facility complies with the requirements in
§63.11224(f)."

(v) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act:
"No secondary materials that are solid waste were combusted in any affected unit."

(vi) The notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (*www.epa.gov/cdx*). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in §63.13.

(b) You must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in paragraphs (b)(1) through (4) of this section. You must submit the report by March 15 if you had any instance described by paragraph (b)(3) of this section. For boilers that are subject only to a requirement to conduct a biennial or 5-year tune-up according to §63.11223(a) and not subject to emission limits or operating limits, you may prepare only a biennial or 5-year compliance report as specified in paragraphs (b)(1) and (2) of this

permit condition. (1) Company name and address.

(2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of this subpart. Your notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i) "This facility complies with the requirements in §63.11223 to conduct a biennial or 5-year tune-up, as
applicable, of each boiler."

(ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act:
"No secondary materials that are solid waste were combusted in any affected unit."

(iii) "This facility complies with the requirement in §§63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and

shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.

(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non- waste determination by you or EPA through a petition process to be a non-waste under §241.3(c), whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of §241.3, and the total fuel usage amount with units of measure.

(c) You must maintain the records specified in paragraphs (c)(1) through (7) of this section.

(1) As required in §63.10(b)(2)(xiv), you must keep a copy of each notification and report that you submitted to comply with this subpart and all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted.

(2) You must keep records to document conformance with the work practices, emission reduction measures, and management practices required by §63.11214 and §63.11223 as specified in paragraphs (c)(2)(i) through (iii) of this permit condition.

(i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

(ii) For each boiler required to conduct an energy assessment, you must keep a copy of the energy assessment report.

(iii) For each boiler subject to an emission limit in Table 1 to this subpart, you must also keep records of monthly fuel use by each boiler, including the type(s) of fuel and amount(s) used.

(3) For sources that demonstrate compliance through fuel analysis, a copy of all calculations and supporting documentation that were done to demonstrate compliance with the mercury emission limits. Supporting documentation should include results of any fuel analyses. You can use the results from one fuel analysis for multiple boilers provided they are all burning the same fuel type.

(4) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in §63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.

(6) You must keep the records of all inspection and monitoring data required by §§63.11221 and 63.11222, and the information identified in paragraphs (c)(6)(i) through (vi) of this section for each required inspection or monitoring.

(i) The date, place, and time of the

monitoring event. (ii) Person

conducting the monitoring.

(iii) Technique or method used.

(iv) Operating conditions during the activity.

(v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation.

(vi) Maintenance or corrective action taken (if applicable).

(d) Your records must be in a form suitable and readily available for expeditious review. You must keep each record for 5 years following the date of each recorded action. You must

keep each record on-site or be
accessible from a central location by computer or other means that instantly provide access at the site for at least
2 years after the date of each recorded action. You may keep the records off site for the remaining 3 years.

GENERAL PROVISIONS

Pursuant to §63.11235, Table 8 to this subpart shows parts of the General Provisions in §§63.1 through 63.15.

49. COOLING TOWER; MDAQMD PERMIT # B001920; consisting of the following:
A Marley cooling tower with design circulation rate of 32,000 gallons per minute:

Capacity	Equipment Name	Order
600.00	Exhaust Fans, Four (4) @ 150 HP each	1
400.00	Utility Circulating Pumps, two (2) @ 200 HP each	2
2000.00	Process Circulating Pumps, two (2) @ 1,000 HP each	3
	Process Circulating Pump, Spare, one (1) @ 1,500 HP	4

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All Equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. Weekly tests of the blowdown water quality shall be performed by the owner/operator in accordance with the standard test procedures. Based on these tests, a drift rate of 0.0015%, which was the measured drift rate in 1990 and a PM10 fraction of 94.8% that was measured in 1990, the mass emission rates for PM and PM10 shall not exceed 13.71 and 13.00 lbs/hr respectively.
[NSR]

4. The drift rate of this cooling tower shall not exceed 0.002 percent with a maximum circulation rate of 32,000 gallons per minute.
[BACT]

5. While this equipment does not require a regularly scheduled emission compliance test, emission compliance testing may be required at the discretion of the District.

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

8. The owner / operator shall maintain a log which, as a minimum, contains the following:
   a. Date blow down water quality test was performed,
   b. Concentration of PM and PM10,
   c. Circulation Flow rate, and
   d. Mass emission rate of PM and PM10(lb/hr)

9. This log shall be maintained on site for a minimum of five (5) years and be provided to District, state or federal personnel upon request.

50. COAL STOCKOUT SYSTEM; MDAQMD PERMIT # B000519; consisting of the following:

The railcar unloading equipment and coal transfer equipment, up to and including the coal stacking equipment within the coal barn:

Capacity	Equipment Name	Order
0.00	Receiving Hopper, Underground - two compartments @ 100 ton capacity each	0
15.00	Railcar Shaker	0
120.00	East & West Feeder Conveyors, 60 hp each	1
200.00	No. 1 Collector Conveyor	2
250.00	No. 2 Collector Conveyor	3
125.00	Conveyor, C-12	4
11.00	Traveling Tripper	5
7.50	Telescopic Conveyor	6

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permit C002124.

2. All outside conveyor systems shall be fully covered. Watersprays shall be provided at the transfer point between the No. 2 collector conveyor and the C-12 conveyor and on the telescopic chute, or at the feed end of the #1 collector conveyor from the coal train receiving hopper. Use of these sprays is not mandatory unless necessary to control dusting for compliance with District rules 401 and 403.
   [Rules 401 and 403]

3. Water spray systems in the receiving hoppers shall be operating when coal is being unloaded.
   [NSR]

4. No more than one unit train supplying solid fuel to NACC facilities shall operate in the Mojave Desert Air Basin (MDAB) during any one calendar day. For purposes of determining compliance with this requirement, Searles Station shall serve as the entry point into the MDAB. The fuel unit trains shall not be considered operating in the MDAB

if the trains are kept in Trona for maintenance, repairs, or for storage.
[NSR]

5. A log shall be maintained by NACC of fuel unit train operations in the MDAB which shall include but not be limited to:
   A. Time and date when a full unit train is picked-up by the Trona Railroad at Searles Station.
   B. Time and date when an empty unit train is dropped-off by the Trona Railroad at Searles Station.
   C. Time, dates, and circumstances relative to unit trains which are kept in Trona for maintenance, repairs, or storage.

   This information shall be maintained on-site for a minimum of two years and be provided to District, state or federal personnel upon request.
   [NSR]

6. Should more than one fuel unit train operate in the MDAB during a given day, NACC shall notify the District within 24 hours of the time the second train enters the air basin.
   [NSR]

7. All equipment shall be maintained and operated at all times in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

51. <u>SOLID FUEL EXTERIOR STOCKOUT AND RECLAIM SYSTEM – B000520; consisting of the following:</u>

Capacity	Equipment Name	Order
150.00	Conveyor, Exterior Stockout	1
	Dust Suppression Tower	2
	Pit, Reclaim (below ground) - 30 tons capacity	3
2.00	Reclaim Vibrator Feeder	4
40.00	Conveyor, Reclaim	5
	Surge Hopper - 30 tons capacity	6

<u>PERMIT CONDITIONS</u>:

1. The equipment listed on this permit shall be used to supply solid fuel to the exterior fuel storage area and to transfer fuel from this area to the normal coal reclaim system, under valid District permit B000521.
   [NSR]

2. Exterior emergency solid fuel storage shall be compacted and chemically sealed to prevent fugitive particulate emissions. Before using this fuel, except on an emergency basis, District approval is required.
   [Rules 401 and 403]

3. Not more than 320,000 tons of exterior solid fuel may be consumed during any three year

period. In addition, during a twelve consecutive month period in which all exterior solid fuel handling operations fugitive sources are dust suppressed with water at a 0.32 gallon per square yard rate, not more than 160,000 tons of exterior solid fuel from the "ACE Long Term Storage Pile" may be consumed. Exterior solid fuel used for emergency purposes and/or coal purchased specifically for test burns shall not be included in this limit.
[NSR; Rules 401 and 403]

4. This equipment may be used to make and operate an open coal pile directly from a train.
[NSR]

5. Interim use of an exterior coal pile shall comply with District Regulation IV. Sufficient water and sprays in operable condition shall be maintained. If the pile is not to be used for a 48 hour period, it is to be moved to an outside storage pile. The pile shall be compacted and chemically sealed.

6. All conveyors systems shall be fully enclosed. Water spray systems shall be provided and fully operating whenever conveyor systems are transferring solid fuel.
[NSR]

7. Vehicle traffic areas associated with this permit shall be watered not less frequently than once every hour when exterior solid fuel stocking and reclaiming is occurring, except during emergency and test burn fuel handling when the minimum watering frequency shall be once every 3.5 hours.
[NSR]

8. The owner/operator shall maintain an operational log current and on-site for this operation for at least five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, but not be limited to:
   a. Total monthly use of exterior solid fuel in tons, the source pile of the fuel, and the reason for the use of the fuel;
   b. Date and amount of fuel (in tons) transferred to exterior storage;
   c. Daily dust suppression watering frequency (applications per hour) and rate (in gallons per square yard) during any exterior solid fuel handling; and,
   d. Date and nature of any exterior pile chemical sealing activity.

52. <u>COAL RECLAIM SYSTEM – B000521; consisting of the following:</u>

Capacity	Equipment Name	Order
	Coal Barn, "A" Frame Building 660' x 160', Nominal capacity 60,000 tons of solid fuel	1
	Portal Reclaimer - with the following motors:	2
100.00	Main Rake Drive	3
50.00	Auxiliary Rake Drive	4
18.80	Main Boom Hoist	5

Capacity	Equipment Name	Order
11.00	Auxiliary Boom Hoist	6
7.50	Travel Drive "A"	7
7.50	Travel Drive "B"	8
7.80	Boom Hinge Link Actuator	9
2.00	Power Cable Reel	10
2.00	Control Cable Reel	11
0.50	Central Grease Lube Pump	12
0.50	Chain Oil Lube Pump	13
25.00	Conveyor, C-13 - Reclaim System	14
40.00	Conveyor, C-14	15
	Surge Hopper - 30 tons capacity	16
2.00	No. 1 Surge Hopper Vibrating Feeder - two motors 1 hp ea.	17
2.00	No. 2 Surge Hopper Vibrating Feeder	18
200.00	No. 1 Granulator (crusher) - Argus	19
300.00	No. 2 Granulator (crusher) - ACE	20
75.00	Conveyor, No. 1 Silo Feed	21
20.00	Conveyor, No. 2 Silo Feed	22
75.00	Conveyor, Drag Link	23
	Silos, Coal - six with 350 tons capacity ea.	24

PERMIT CONDITIONS:

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002124 and C002125.

2. All outside conveyor systems shall be fully covered. Watersprays shall be provided at the transfer chute from the C-13 conveyor to the C-14 conveyor. Use of these sprays is not mandatory unless necessary to control dusting for compliance with District rules 401 and 403.
[Rules 401 and 403]

3. All equipment shall be maintained and operated at all times in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

4. Emissions of particulate matter through the ventilation exhausts on the roof of the coal barn shall not exceed limits defined in District rules 401 and 403.
[NSR]

52a. **REFINED COAL TREATMENT SYSTEM – B011272; consisting of the following:**
System for applying coal treatment- consisting of calcium bromide solution (Mer-Sorb) mixed with cement kiln dust (S-Sorb). Application of coal treatment occurs within crusher house - Coal Reclaim System (B000521).

Capacity	Equipment Name	Order
	S-Sorb:	1
	100 Ton Silo, 3, 348 cu ft capacity	2
	Silo Filler Vent, Model CW LPR8	3
	Filter Batcher Vent, Model CP-35	4
5	Aeration Blower, 5 hp	5
10	Screw Conveyor, 10 hp	6
0.33	Rotary Airlock Vane Feeder, 0.33 hp	7
15	Rotary Screw Air Compressor, 15 hp	8
	Mer-Sorb:	9
	6,000 Gallon Storage Tank	10
2	Recirculation Pump, 2 hp	11
1	Two Metering Pumps, 0.5 hp (2)	12

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with data and specifications submitted with the application under which this permit is issued unless otherwise noted below. [District Rule 203]

2. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles which produce the minimum emissions of contaminants. [District Rule 203]

3. Application of coal treatment materials to coal shall occur only within the crusher house inherent to Coal Reclaim System, District Permit B000521.
[NSR]

4. Associated storage silo and tank shall be used to store only cement kiln dust (100 ton silo) and calcium bromide solution (6,000 gallon tank).

5. Cement Kiln Dust Storage Silo and Weigh Batcher shall only operate when integral silo bin vent and weigh batcher bin vent are properly operating and in use.

6. The o/o shall maintain on-site a minimum inventory of bin vent filter replacement bags that assures compliance with these conditions.
[NSR]

7. The weigh batcher and storage silo bin vents shall be equipped with a device to measure the pressure differential across the bags. Device shall be installed in a conspicuous location. In operation, the normal operating pressure differential shall not exceed 8 inch

and 12 inch water column (maximum 20 inch water column during silo filling), respectively.
[NSR]

8. Dust collected in the bin vents shall be discharged only into closed containers.
[NSR]

9. The total amount of cement kiln dust loaded and batched shall not exceed 7,500 tons per calendar year.
[NSR]

10. The o/o shall conduct a minimum program of inspection and maintenance on this equipment. The o/o shall maintain current and on-site for five (5) years a log of the following information, which shall be provided to District, State, or Federal personnel upon request:
a. Monthly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
b. Semi-annual bag and bag suspension system inspection date and results;
c. Monthly reading of baghouse pressure drop, date and value;
d. Date of bag replacements;
e. Date and nature of any system repairs; and
f. Annual amount of cement kiln dust received and batched in tons.
[NSR; Periodic Monitoring]

53. <u>FLY ASH STORAGE & LOADOUT SYSTEM – B000541; consisting of the following:</u>
Collects ash from Argus Boilers' Electrostatic Precipitators (ESPs) (District permits C000557 and C000559), and has the following components/specifications:

Capacity	Equipment Name	Order
7.50	Fan, Vent - also one spare @ 7.5 hp	1
100.00	Blowers, Air - 2 @ 50 hp ea	2
420.00	Heaters, Air - 2 @ 90 kW ea	3
	Fly Ash Hopper - 8,500 ft3	4
30.00	Rotary Unloader, United Conveyor	5
0.75	Loading Spout	6
5.00	Loading Spout Exhaust Fan	7
	Water Spray System	8
	Duct/Vent to baghouse	9

<u>PERMIT CONDITIONS:</u>
1. This equipment shall be operated/maintained in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

2. This equipment shall be operated concurrently with boilers 25 (B000555) and/or 26 (B000554) and their ESP systems (C000557 and C000559) and shall be vented to Fly Ash Storage and Loadout System Baghouse (C000540).

3. Dry fly ash, from the storage silo, shall not be loaded into trucks unless the spout venting fan or the water spray system is operating.

4. Dry fly ash shall not be loaded into trucks unless the spout is properly mated to prevent violations of Rule 401.

54. <u>BAGHOUSE; MDAQMD PERMIT # C002124; consisting of the following:</u>
Serving Coal Stockout System (B000519) and Coal Reclaim System (B000521) - McNally Systems, Inc. - Model N: Sonair Jet 1215-645-12158; 12,158 ft2 cloth area w/4.93:1 air to cloth ratio - gas flow at ambient degrees F and 60,000 ACFM. Interal 150 hp fan, 10 hp blower, 3 hp screw, and 1 hp star valve:

<u>PERMIT CONDITIONS:</u>

1. The owner / operator shall have a maintenance plan for this baghouse. This plan, at a minimum, requires a log that includes visual emission readings on a regular basis, recording of differential pressures across the baghouse and inspection/repairs frequency.

2. The maintenance log for this baghouse shall be maintained on-site for five (5) years and be made available to District, state or federal personnel upon request.

3. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.
[NSR]

4. This baghouse shall be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

5. This baghouse shall be operated within the following design specifications when coal is being transferred: maximum outlet particulate concentration and mass emission rate shall not exceed either 0.003 gr/ACF (at nominal maximum flow rate of 60,000 ACFM) or 1.54lb/hr, respectively.
[BACT]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every five years starting in 1994 and the tests results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

55. <u>BAGHOUSE; MDAQMD PERMIT # C002125; consisting of the following:</u>
Serving Crushers Nos. 1 and 2 - Coal Reclaim System (B000521) - McNally Systems, Inc. - Model N: Sonair Jet 1015-150-2355; 2,355 ft2 cloth area w/5.09:1 A/C ratio - gas flow at ambient degrees F and 12,000 ACFM:

PERMIT CONDITIONS:

1. The owner / operator shall have a maintenance plan for this baghouse. This plan, at a minimum, requires a log that includes visual emission readings on a regular basis, recording of differential pressures across the baghouse and inspection/repairs frequency.

2. The maintenance log for this baghouse shall be maintained on-site for five (5) years and be made available to District, state or federal personnel upon request.

3. The owner / operator shall maintain on-site, as a minimum, an inventory of replacement bags that assures compliance with applicable Rules of District Regulation IV.

4. This baghouse shall be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

5. This baghouse shall be operated within the following design specifications when coal is being transferred: maximum outlet particulate concentration and mass emission rate shall not exceed either 0.003 gr/ACF (at nominal maximum flow rate of 12,000 ACFM) or 0.314 lb/hr, respectively.
[BACT]

6. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405. Testing shall be every five years starting in 1994 and the tests results submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

7. An additional compliance test shall be performed within 90 days of initial operation of the Refined Coal treatment System. This test shall show compliance with Conditions 5 and 6. Testing shall be carried out in accordance with District Compliance Test Procedural Manual.

56. BAGHOUSE; MDAQMD PERMIT # C000540; consisting of the following:
Controls emissions from Fly Ash Storage and Loadout System (District permit B000541) and has the following specifications:
Flex-Kleen, model 100 CT-46
Bags: 46, each 6" dia x 8'L
Air to Cloth Ratio: 3.5:1
Three-compartment settling chamber
Vacuum System Pump Motors: 2 @ 75 hp ea (one is spare)

PERMIT CONDITIONS:

1. This equipment shall be operated concurrently with the Fly Ash Storage and Loadout System (District permit B000541).

2. This baghouse shall be operated and maintained in strict accord with manufacturer's and/or supplier's recommendations and/or sound engineering principles.

57. [RESERVED]

58. <u>DIESEL IC ENGINE, EMERGENCY FIRE PUMP; MDAQMD PERMIT # E004550; consisting of the following:</u>
Detroit Diesel, Diesel, Model No 10647110 – 671, 6 cylinder, 170 bhp @ 2100 rpm, Serial No. 6A0325784 (S4038):

<u>PERMIT CONDITIONS:</u>

1. This emergency, stationary, compression-ignited, internal combustion engine and after-treatment control device (if any) shall be installed, operated and maintained according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [40 CFR 63.6625(e) - Subpart ZZZZ - NESHAP for Stationary Reciprocating Internal Combustion Engines]

2. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15ppm) on a weight per weight basis per CARB Diesel or equivalent requirements. [40 CFR 63.6625(f); Rule 431]

3. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 30 hours per year for testing and maintenance. [Rule 204; 40 CFR 63.6640(f)(1)(ii)]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [40CFR 63.6625(f)]

5. The annual hour limit can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled IC engine when operated per and in accord with the National Fire Protection Association (NFPA) 25 - "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 1998 edition. [Title 17 CCR 93115(c)16]

6. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
   a. Date of each use and duration of each use (in hours);
   b. Reason for use (testing & maintenance, emergency, required emission testing, etc.);
   c. Monthly and calendar year operation in terms of fuel consumption (in gallons) and total hours [17 CCR 93115]; and,

d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log) [17CCR 93115].
e. Records of the occurrence and duration of each malfunction of operation of equipment, including air pollution control and monitoring equipment, the maintenance performed during these malfunctions, and the corrective actions taken to minimize emissions and restore malfunctioning processes and air pollution control and monitoring equipment to its normal operation [40 CFR 63.6655(a)]; and,
f. Maintenance performed on this equipment, inclusive of the requirements of 40 CFR 63, Subpart ZZZZ National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines as listed below.
[17 CCR 93115, ATCM for Stationary Compression Engines; 40 CFR Part 63 Subpart ZZZZ]

7. Owner/operator must meet the following requirements;
a. Change oil and filter every 500 hours of operation or annually, whichever comes first. O/o may utilize an oil analysis program as described in §63.6625(i) in order to extend this requirement.
b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comers first;
c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary; and
d. Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes.
[40 CFR 63.6603, table 2d]

8. This unit is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (17 CCR §93115) and 40 CFR Part 63, Subpart ZZZZ (NESHAP). In the event of conflict between these conditions and the ATCM or NESHAP, the more stringent requirements shall govern.

59. [RESERVED]

60. <u>DIESEL IC ENGINE, PORTABLE AIR COMPRESSOR – B005124; consisting of the following:</u>
Yr of Mfg 1998, Tier 1, EPA Engine Family Name WJDXL06.8014, PM emission rate 0.20 g/bhp-hr, John Deer, Diesel, Model No 4045TF250, 4 cylinders, Direct Injected, Turbo Charged, 25 bhp @2400 rpm, Serial No T004045T 749952 (K0627):

<u>PERMIT CONDITIONS:</u>

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

2. This diesel ICE and its associated equipment cannot be operated at the same footprint (spot) for more than 365 consecutive days. (This system must be moved within this facility or

moved to another facility annually.)

3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% or 15 ppm on a weight per weight basis per CARB Diesel or equivalent requirements.
Title 17 CCR Section 93116.3(a); Rule 431]

4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.

5. The o/o shall maintain a operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
a. Calendar year operation in terms of operating location, fuel consumption (in gallons) and total hours; and,
b. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log).

61. [RESERVED]

ARGUS FACILITY PORTABLE SANDBLASTING EQUIPMENT:

62. PORTABLE ABRASIVE BLASTING SYSTEMS; MDAQMD PERMIT #'s A000522 (600 lb capacity, Clemco, Serial # 11395) & A000523 (600 lb capacity, Clemco, Model # 2452):

1. No person shall discharge into the atmosphere from any abrasive blasting which is conducted outside a permanent building any air contaminant for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated as No. 2 (40%) on the Ringelmann Chart, as published by the United States Bureau of Mines. **District/State Only**

2. No person shall discharge into the atmosphere from any abrasive blasting which is conducted within a permanent building any air contaminant for a period or periods aggregating more than three minutes in any one hour which is as dark or darker in shade as that designated as No. 1 (20%) on the Ringelmann Chart, as published by the United States Bureau of Mines.

3. This abrasive blast system shall only use steel, iron shot, grit or other abrasives that have been certified by the California Air Resources Board (CARB) for dry unconfined usage (CCR 17 Section 92520).

4. The abrasive blast system shall be operated/maintained in strict accord with manufacturer/supplier recommendations and/or sound engineering principles.

C. EQUIPMENT DESCRIPTION: WESTEND PLANT:

1. B000221: SODIUM SULFATE B PROCESS (TRAIN 1) - Consisting of the following equipment:

Drying, screening and processing equipment, some of which is common with Train 2 but is rated on this permit. Horsepower have been converted to Btu assuming 2550 Btu per horsepower:

Capacity	Description
15.0	Rotary Dryer Burner, Maxon Kinedizer, 15 MMBtu/hr
0.1	Rotary Dryer Drive Motor (50 hp)
0.0	Elevator, dryer discharge (7.5 hp)
0.0	Disintegrator (5 hp, common with Train 2)
0.0	Hammer Mill (15 hp, common with Train 2)
0.0	Four Tyler Screens with vibrating motors (common with Train 2)
0.0	Screw No. 1, No. 1 Dryer cyclone (5 hp, common with Train 2)
0.0	Screw No. 2, No. 2 Dryer cyclone (3 hp, common with Train 2)
0.0	Screw No. 3, Fines Cross (7.5 hp, common with Train 2)
0.0	Screw No. 4, Tyler screen feed (7.5 hp, common with Train 2)
0.0	Screw No. 5, Elevator discharge (5 hp, common with Train 2)
0.0	Screw No. 6, Product Selector (5 hp, common with Train 2)
0.0	Screw No. 7, No. 6 Fines tank discharge (7.5 hp, common with Train 2)
0.1	Five Belts plus a spare (42.5 total hp, common with train 2)
	Star valve No. 6 (common with train 2)
	Storage Tanks Common to Trains 1 and 2
	No. 1 = 53,650 cu ft/401,356 gallons
	No. 2 = 128,220 cu ft/959,214 gallons
	No. 3 = 128,220 cu ft/959,214 gallons
	No. 4 = 17,340 cu ft/129,721 gallons
	No. 5 = 149,800 cu ft/1,120,654 gallons

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles.

2. The owner / operator shall operate the equipment in this process concurrently with the scrubber and screen plant baghouse (District permits C000240 and C004431, respectively).

3. The owner / operator shall comply with all rules and regulations of the District including, but not limited to, malfunction/breakdown notifications.

4. The owner / operator shall not produce more than 140,000 tons per year of product using this equipment, and shall log annual production amounts (in tons) to demonstrate compliance with this condition. This log shall be maintained current and

onsite for five (5) years and shall be made available to District, state or federal personnel upon request.

2. VENTURI SCRUBBER (SODIUM SULFATE TRAIN 1) – C000240; consisting of the following:

Sulfate "B" train No. 1 process:

Capacity	Description
	Venturi scrubber
50.0	Exhaust fan motor
10.0	Scrubber water recirculation pump
	Cyclone
1.0	Cyclone discharge star valve
5.0	Cyclone discharge screw

PERMIT CONDITIONS:

1. This scrubber shall be operated concurrently with Sulfate Train No. 1 under valid District permit B000221.

2. The owner / operator shall comply with all District rules and regulations including, but not limited to, malfunction/breakdown notifications.

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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

4. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and these conditions. Testing shall be every three (3) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

5. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

6. This scrubber shall discharge to the atmosphere no more than the following emissions (Compliance with this condition shall be determined using the periodic compliance tests and production records):
   a. TSP - 2.06 lb/hr.
   b. PM10 - 15,318 pounds per year (assuming PM10 fraction of 0.85).
   c. NOx - 0.021 pounds per ton of throughput.
   d. NOx - 2940 pounds per year.
   e. SOx - 0.0022 pounds per ton of throughput.
   f. SOx - 308 pounds per year.

3. BAGHOUSE (SODIUM SULFATE PRODUCTION SCREENING) – C004431:
Mfg. By Fabric Filters Air Systems, Inc. and serving the Sulfate Production Screening operation with the following specifications:

Model: 238-10-TRILOD
Bags: 238 w/each 10' x 6" diameter
A/C Ratio: 5.1 x 1
Fan: 75 hp
Discharge Screw Motor: 1 hp
Dissolver Agitator Motor: 3hp

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This equipment shall be operated concurrently with Sulfate "B" Process Trains 1 and/or 2, under valid District permits B000221 and B002253, respectively.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and these conditions. Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in each applicable year.

6. This baghouse shall discharge no more than 2.91 lb/hour of particulate (as TSP) or 21668 pounds of PM10 per year (assuming a PM10 fraction of 0.85). Compliance with this condition shall be determined using the periodic compliance tests and assumed continuous operation.

4. B002253: SODIUM SULFATE B PROCESS (TRAIN 2) - Consisting of the following equipment:
Drying, screening and processing equipment, some of which is common with Train 1 and is rated on permit B000221:

Capacity	Description
0.1	Rotary Dryer Drive Motor (50 hp)
15.0	Rotary Dryer Burner, Maxon Kinedizer, 15 MMBtu/hr

0.0 Elevator - Dryer Discharge (7.5 hp)
Disintegrator (common with Train 1)
Hammer Mill (common with Train 1)
4 Screens (common with Train 1)
7 Screws (common with Train 1)
5 Belts (common with Train 1)
Spare Belt (common with Train 1)
Star Valve No. 6 (common with Train 1)
Storage Tanks Common to Trains 1 and 2:

#1	53, 650 cu ft	401,356 gal
#2	128,220 cu ft	959,214 gal
#3	128,220 cu ft	959,214 gal
#4	17,340 cu ft	129,721 gal
#5	149,800 cu ft	1,120,654 gal

PERMIT CONDITIONS:

1. The owner / operator shall operate and maintain this equipment in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering practices.

2. The owner / operator shall operate the equipment in this process concurrently with the scrubber and screen plant baghouse (District permits C000354 and C004431, respectively).

3. The owner / operator shall comply with all rules and regulations of the District, including, but not limited to, malfunctions/breakdowns.

4. The owner / operator shall not produce more than 140,000 tons per year of product using this equipment, and shall log annual production amounts (in tons) to demonstrate compliance with this condition. This log shall be maintained current and onsite for five (5) years and shall be made available to District, state or federal personnel upon request.

5. VENTURI SCRUBBER (SODIUM SULFATE TRAIN 2) – C000354:
Sulfate "B" Train No. 2 process:

Capacity	Equipment Name	Order
	Venturi scrubber	1
60.00	Exhaust fan motor	2
10.00	Scrubber water recirculation pump	3
	Cyclone	4
1.00	Cyclone discharge star valve	5
5.00	Cyclone discharge screw	6

PERMIT CONDITIONS:

1. This scrubber shall be operated concurrently with Sulfate Train No. 2 under valid District permit B002253.

2. The owner / operator shall comply with all District rules and regulations including, but not limited to, malfunction/breakdown notifications.

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. This program shall include, but not be limited to, regular opacity reading, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on-site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

4. The owner / operator shall conduct compliance test relative to District Rules 404 and 405 and these conditions. Testing shall be every three (3) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

5. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

6. This scrubber shall discharge to the atmosphere no more than the following emissions (Compliance with this condition shall be determined using the periodic compliance tests and production records):
   a. TSP - 2.06 lb/hr.
   b. PM10 - 15,318 pounds per year (assuming PM10 fraction of 0.85).
   c. NOx - 0.021 pounds per ton of throughput.
   d. NOx - 2940 pounds per year.
   e. SOx - 0.0046 pounds per ton of throughput.
   f. SOx – 644 pounds per year.

6. <u>BORAX PROCESS TRAIN AND BULK LOADOUT; MDAQMD # B000228:</u>
<u>EQUIPMENT DESCRIPTION:</u>

Capacity	Equipment Name	Order
0.1	C-5 Conveyor Belt (5 hp)	1
0.3	Inclined Screw Conveyor from E3 10 hp)	2
0.1	C-6 Conveyor Belt (3 hp)	3
0.0	C-7 Conveyor Belt (1.5 hp)	4
0.0	C-8 Conveyor Belt (1.5 hp)	5
0.0	C-9 Conveyor Belt (1.5 hp)	6
0.0	C-10 Conveyor Belt (1.5 hp)	7
0.0	C-11 Conveyor Belt (1.5 hp)	8

Capacity	Equipment Name	Order
0.1	C-15 Conveyor Belt (5 hp)	9
0.1	C-16 Conveyor Belt (3 hp)	10
0.1	C-17 Conveyor Belt (5 hp)	11
0.1	C-18 Conveyor Belt (5 hp)	12
0.1	C-20 Conveyor , Screw (5 hp)	13
0.1	C-21 Conveyor Belt (2 hp)	14
0.1	C-73 Conveyor Belt (2 hp)	15
0.1	C-64 Dryer Feed Conveyor (2 hp)	16
0.1	E-3 Elevator (5 hp)	17
0.1	E-4 Elevator (5 hp)	18
0.1	E-5 Elevator (5 hp)	19
0.1	E-6 Elevator (5 hp)	20
0.1	E-7 Elevator (5 hp)	21
0.1	E-8 Elevator (5 hp)	22
0.1	E-9 Elevator (5 hp)	23
0.4	E-12 Elevator (15 hp)	24
0.4	E-13 Elevator (15 hp)	25
0.1	E-14 Elevator (5 hp)	26
0.1	E-1 Screen (3 hp)	27
0.1	E-2 Screen (3 hp)	28
0.1	1-W Screen (3 hp)	29
0.1	2-W Screen (3 hp)	30
0.5	Burner Blower (20 hp)	31
0.6	Dryer Drive (25 hp)	32
0.0	Retractable Loadout Chute (0.8 hp)	33
40.0	Bloom Engineering Burner (4 MMBtu/hr)	34
0.0	Storage Silos No. 1 through No. 8 - 8,000 cu ft ea, 59,848 gal ea	35
0.0	Delumper @ C-15	36
0.1	Delumper @ C-17 (5 hp)	37
0.1	Screw Conveyor to E-4 (3 hp)	38
0.1	C-54 Screw Conveyor to E-5 (3 hp)	39
0.1	Slipstick Conveyor to T-3 (3 hp)	40
0.1	Slipstick Conveyor to C-11	41
0.1	C-50 Conveyor Belt (5 hp)	42
0.1	40 Ton Bin Vibrator (5 hp)	43
0.1	Vibrating Feeder to C- 66 (5 hp)	44
0.0	C-66 Vibrating Conveyor to T5 Melter (1 hp)	45

Capacity	Equipment Name	Order
0.1	C-45 Drag Conveyor (5 hp)	46
0.1	E-16 Elevator (5 hp)	47
0.1	Syntron Feeder @ T1 (3 hp)	48
0.1	Syntron Feeder @ T3 (3 hp)	49
0.1	Syntron Feeder @ T7 (3 hp)	50
0.1	Electric Vibrator, T1 (3 hp)	51
0.1	Electric Vibrator, T3 (3 hp)	52
0.1	Electric Vibrator, T5 (3 hp)	53
0.0	Electric Vibrator, T6 (1 hp)	54
0.2	Electric Vibrator, T7 (6hp)	55
0.2	Electric Vibrator, T8 (6hp)	56
0.1	Shaker, T8 (3 hp)	57
0.0	Electric Vibrator to C5/C6 (1 hp)	58
0.2	Dryer Discharge Conveyor (7.5 hp)	59
0.1	Product Cooler and Blower (5 hp)	60
0.2	Product Cooler Discharge Conveyor (7.5 hp)	61
0.2	Cooler Feed Conveyor (7.5 hp)	62
0.1	E-2 Elevator (5 hp)	63

PERMIT CONDITIONS:

1. This equipment shall only be operated and maintained in strict accord with the manufacturer's/supplier's recommendations and/or sound engineering principles.

2. This equipment shall not be operated unless vented to functioning Venturi Scrubber (District permit C000241) and appropriate baghouses covered by District permits C000347, C000348, C000353, and C000357.

7. SCRUBBER, VENTURI (BORAX PROCESS) – C000241; consisting of the following:

A knockout cyclone with a 0.5 hp discharge rotary valve, a 75 hp (10,000 ACFM design) fan, a Fisher-Klosterman venturi scrubber, and a Fisher-Klosterman dual phase (T-5 pad and T-100 pad) horizontal mist eliminator. This equipment is served by a 25 hp water circulation motor and exhausts through a vertical stack (8000 ACFM @ 200 deg F):

PERMIT CONDITIONS:

1. This scrubber shall be operated concurrently with the Borax process train under valid District permit B000228.

2. The owner/operator (o/o) shall have a continuing program of maintenance/inspections in accord with manufacturer’s recommendations and specifications which ensures

compliance with District Rules. This program shall include:
a. Monthly opacity readings;
b. Daily pressure differential measurements (operating days only); and,
c. Regular maintenance inspections, with a frequency determined by experience with this equipment.

3. The o/o shall maintain an operations/maintenance log(s) for this equipment on site for at least five (5) years, and shall make the log available to District, state and federal personnel upon request. This log shall include, at a minimum, the following:
a. Date and results of monthly opacity readings;
b. Date and result of pressure differential readings;
c. Date and result of maintenance inspections; and,
d. Monthly V-Bor process line production (tons).

4. The operating instruction shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every three (3) years starting in 1994 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 9.5 tons per year combined (verified through source tests and V-Bor process line production records on a rolling twelve month summary basis): C000241, C000347, C000348, C000353, C000357. [NSR]

8. <u>BAGHOUSE – C000353; consisting of the following:</u>
<u>Collects dusts from Borax train conveyor belts and consists of the following:</u>
A Micro Pulsaire Model 69-6-70 baghouse, equipped with a 25 hp exhaust fan motor, 0.75 star valve and 1.0 hp screw conveyor.

<u>PERMIT CONDITIONS:</u>

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall be operated concurrently with the Borax train under valid District permit B000228.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 2003 and the test results shall be submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 9.5 tons per year combined (verified through source tests and V-Bor process line production records on a rolling twelve month summary basis): C000241, C000347, C000348, C000353, C000357.

9. <u>BAGHOUSE – C000348; BORAX PRODUCTION; consisting of the following:</u>

Capacity	Equipment Name	Order
	Micro Pulsaire, 12,000 cfm, 850 rpm	0
75.00	Exhaust fan motor, type XL, size 129	1
2.00	Shaker	2
	Tipping Valve	3

<u>PERMIT CONDITIONS</u>:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall be operated concurrently with the Borax train under valid District permit B000228.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 1990 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years

applicable.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 9.5 tons per year combined (verified through source tests and V-Bor process line production records on a rolling twelve month summary basis): C000241, C000347, C000348, C000353, C000357.

10. BAGHOUSE EAST – C000347; consisting of the following:
Collect dusts from Borax shipping and bulk loadout system and silos 1, 3, and 5, which consists of the following:

Capacity	Equipment Name	Order
	Wheelabrator baghouse (East)	1
30.0	Exhaust fan motor	2
0.8	Shaker	3
5.0	Discharge screw	4

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall be operated concurrently when the Borax train under valid District permit B000228 and the Loadout System.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 1990 and the test results shall be submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 9.5 tons per year combined (verified through source tests and V-Bor process line production records on a rolling twelve month summary basis): C000241, C000347, C000348, C000353,

C000357.

11. BAGHOUSE WEST – C000357; consisting of the following:
Collects dust from Borax loadout system and Silos 2, 4, 6, and 8, and consists of the following:

Capacity	Equipment Name	Order
	Wheelabrator baghouse (west)	1
30.00	Exhaust fan motor	2
0.75	Shaker	3
0.50	Star valve	4
5.00	Discharge screw	5

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This equipment shall be operated concurrently with Borax Process Train under valid District permit B000228.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of these data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The o/o shall conduct compliance tests relative to District Rules 404 and 405, and for PM_{10} at a 0.85 fraction (lb/ton of throughput). Testing shall be performed once every five (5) years starting in 1990 and the test results shall be submitted to the District not later than six weeks prior to the expiration date of this permit in those years applicable.

6. This equipment, and the equipment covered by the following valid permits, shall not emit to the atmosphere PM_{10} (at a 0.85 fraction of TSP) in excess of 9.5 tons per year combined (verified through source tests and V-Bor process line production records on a rolling twelve month summary basis): C000241, C000347, C000348, C000353, C000357.

12. SULFATE SHIPPING – B001764; consisting of the following:
Railcar/Truck Loadout (Shipping conveyors from storage tanks to shipping points) consisting of:

Capacity	Equipment Name	Order
5.00	Belt No. 77, East	1
5.00	Belt No. 78, West	2
7.50	Belt No. 79, 1st Sec.	3
10.00	Belt No. 80, 2nd Sec.	4
5.00	Screen No. 2	5
5.00	Tunnel Belt No. 5 Tank	6

PERMIT CONDITIONS:

1. This equipment shall be operated concurrently with functioning baghouses in operation (District permits C001765 and C000341).

13. BAGHOUSE (SODIUM SULFATE SHIPPING SCREENING); MDAQMD PERMIT # C001765; consisting of the following:

A Mikro Pulsaire baghouse serving the Sulfate Shipping/Screening Plant with a 15 hp exhaust fan motor, an 0.8 star valve and a vibrator:

PERMIT CONDITIONS:

1. The owner / operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall operate concurrently when the Sulfate Shipping Facilities are operating under valid District permit B001764.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and 405 and these conditions. Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

6. This baghouse shall discharge no more than 0.86 lb/hour of particulate (as TSP) or 6383 pounds of PM10 per year (assuming a PM10 fraction of 0.85). Compliance with this condition shall be determined using the periodic compliance tests and assumed continuous operation.

14. BAGHOUSE (SODIUM SULFATE LOADOUT); MDAQMD PERMIT # C000341;

consisting of the following:
A Mikro Pulsaire baghouse serving the Sulfate Shipping Railcar/Truck Loadout Facility with a 7.5 hp fan motor, two 0.5 hp extendable chutes and a 0.8 hp star valve:

PERMIT CONDITIONS:

1. The owner/operator shall operate/maintain this equipment in strict accord with recommendations of the manufacturer and/or sound engineering practices.

2. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

3. This baghouse shall operate concurrently with the Sulfate Shipping Facility under valid District permit B001764.

4. 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. This program shall include, but not be limited to, regular opacity readings, pressure differential measurements, and maintenance inspections. Logging of data shall be required with the log kept on site for a minimum of five (5) years. This log shall be provided to District, state or federal personnel upon request.

5. The owner / operator shall conduct compliance tests relative to District Rules 404 and these conditions. Testing shall be every five (5) years starting in 2001 and the test results submitted to the District not later than six (6) weeks prior to the expiration date of this permit in those years applicable.

6. This baghouse shall discharge no more than 0.43 lb/hr of particulate (as TSP) or 3191 pounds of PM10 per year (assuming a PM10 fraction of 0.85). Compliance with this condition shall be determined using the periodic compliance tests and assumed continuous operation.

15. BOILER NO. 5; MDAQMD PERMIT # B009992; consisting of the following:
Natural gas fired, "D" type Babcock & Wilcox FM Package Boiler (FM 106-88) with a maximum rating of 126.58 MM Btu/hr, producing 100,000 lb of steam per hour at 250 psig.

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. This equipment shall be exclusively fueled with pipeline quality natural gas and shall be operated and maintained in strict accord with the recommendations of its manufacturer or supplier and/or sound engineering principles. [NSR; Rule 431]

3. This equipment is subject to the federal NSPS codified at 40 CFR Part 60, Subparts Db

(Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units). Compliance with all applicable provisions of these regulations is required.

4. Emissions from this equipment shall not exceed the following emission limit at any firing rate verified by CEMS, except during periods of startup, shutdown and malfunction:

   a. NOx as NO2 – 1.27 lb/hr ("F Factor" of 8710 DSCF per MMBtu corrected to 3% oxygen based on a three hour rolling average updated every 15 minutes)
   [NSR; Subpart Db]

5. Emissions of NOx from this equipment shall only exceed the limits contained in Condition 4 during startup and shutdown periods. Startup is defined as the period beginning with ignition and lasting until the equipment has reached 30,000 lb of steam production per hour. Shutdown is defined as the period beginning with the lowering of equipment from base load and lasting until fuel flow is completely off and combustion has ceased.
   [NSR; Subpart Db]

6. Emissions from this equipment shall not exceed the following emission limits, based on a rolling 12 month summary:
   a. NOx –11,088 lb/year, verified by CEMS
   b. CO –44,354 lb/year, verified by compliance test and hours of operation
   c. VOC as CH4 –5,988 lb/year, verified by compliance test and hours of operation
   d. SOx as SO2 –654 lb/year, verified by fuel sulfur content and fuel use data
   e. PM10 –8,316 lb/year, verified by most recent compliance test and hours of operation
   [NSR]

7. Particulate emissions from this equipment shall not exceed an opacity equal to or greater than twenty percent (20%) for a period aggregating more than three (3) minutes in any one (1) hour, excluding uncombined water vapor.

8. The o/o shall provide stack sampling ports and platforms necessary to perform source tests required to verify compliance with District rules, regulations and permit conditions. The location of these ports and platforms shall be subject to District approval.
   [NSR]

9. Emissions of NOx and oxygen shall be monitored using a Continuous Emissions Monitoring System (CEMS). The o/o shall install, calibrate, maintain, and operate these monitoring systems according to a District-approved monitoring plan and MDAQMD Rule 218, and they shall be installed prior to initial equipment startup.
   [NSR; Subpart Db]

10. The o/o shall conduct all required compliance/certification tests in accordance with a District-approved test plan. Thirty (30) days prior to the compliance/certification tests the o/o shall provide a written test plan for District review and approval. Written notice of the compliance/certification test shall be provided to the District ten (10) days prior to

the tests so that an observer may be present. A written report with the results of such compliance/certification tests shall be submitted to the District within forty-five (45) days after testing.
[NSR; Subpart Db]

11. The o/o shall perform the following annual compliance tests in accordance with the MDAQMD Compliance Test Procedural Manual. The test report shall be submitted to the District no later than six weeks prior to the expiration date of this permit. The following compliance tests are required:
a. NOx as NO2 in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Methods 19 and 20); shall not exceed 9 ppmvd and 1.27 lb/hr.
b. VOC as CH4 in lb/hr (measured per USEPA Reference Methods 25A and 18); shall not exceed 0.68 lb/hr.
c. SOx as SO2 in lb/hr; shall not exceed 0.07 lb/hr verified by stack test or fuel analysis.
d. CO in ppmvd at 3% oxygen and lb/hr (measured per USEPA Reference Method 10); shall not exceed 50 ppmvd and 5.06 lb/hr.
e. PM10 in gr/dscf and lb/hr (measured per USEPA Reference Methods 5 and 202 or CARB Method 5); shall not exceed 0.01 gr/dscf and 0.95 lb/hr verified during the initial compliance test and tested every fifth year thereafter.
[NSR; Subpart Db]

12. The Continuous Emissions Monitoring System (CEMS) shall meet the following acceptability testing requirements from 40 CFR 60:
a. For NOx, Appendix B - Performance Specification 2.
b. For oxygen, Appendix B - Performance Specification 3.
c. Appendix F - Quality Assurance Procedures.
[NSR; Subpart Db]

13. The o/o shall submit to the APCO the following information for the preceding calendar quarter by January 30, April 30, July 30 and October 30 of each year this permit is in effect. This information shall be maintained on site for a minimum of five (5) years and shall be provided to District personnel on request:
a. All continuous emissions data reduced and reported in accordance with the District-approved CEMS protocol.
b. Maximum hourly and total quarterly emissions of NOx.
c. Fuel sulfur content quarterly natural gas sulfur content reports from the natural gas supplier(s).
[NSR; Subpart Db]

14. Within 60 days after achieving the maximum firing rate at which the facility will be operated, but not later than 180 days after initial startup, the operator shall perform an initial compliance test. This test shall demonstrate that this equipment is capable of operation at a minimum load of 50% in compliance with the emission limits in Condition 4 above.
[NSR; Subpart Db]

15. This boiler shall be operated in compliance with all applicable requirements of 40 CFR 60 Subpart Db - Standards of Performance for Industrial Steam Generating Units (NSPS Db) as modified by EPA letter dated September 17, 2007. In the event of conflict between Permit Conditions and the NSPS, the more stringent requirements shall govern.

16. The o/o shall conduct an initial compliance test for the NOx NSPS Subpart Db requirement by collecting data from the CEMS during the first 720 hours of operation (successive but not continuous periods of operation) within one (1) year of startup. EPA letter dated 9/17/2007 modifying 40 CFR 60.46b(e)(1) and 60.8(a).
[NSR; Subpart Db]

17. The o/o shall comply with all applicable recordkeeping and reporting requirements of NSPS Db requirements. Records shall be kept for no less than 5 years and available to Local, State and Federal inspectors upon request.

16. [RESERVED]

17. [RESERVED]

18. COOLING TOWER - SULFATE NUMBER 1; MDAQMD PERMIT # B005291; consisting of the following:
Evapco mfg cooling tower with a design drift rate of 0.0001% and a circulation rate of 2400 gpm.
This tower functions as an ammonia condenser for the sulfate refrigeration process.
Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of 1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator

in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

19. COOLING TOWER - SULFATE NUMBER 2; MDAQMD PERMIT # B005188; consisting of the following:

Evapco mfg cooling tower with a design drift rate of 0.0001% and a circulation rate of 2400 gpm. This tower functions as an ammonia condenser for the sulfate refrigeration process. Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of 1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

20. COOLING TOWER - SULFATE NUMBER 3 – B005292; consisting of the following:

Evapco mfg cooling tower with a design drift rate of 0.0001 and a circulation rate of 2400 gpm. This tower functions as an ammonia condenser for the sulfate refrigeration process. Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of 1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

21. COOLING TOWER - SULFATE NUMBER 4; MDAQMD PERMIT # B005212; consisting of the following:

Evapco mfg cooling tower with a design drift rate of 0.0001 and a circulation rate of 2400 gpm. This tower functions as an ammonia condenser for the sulfate refrigeration

process. Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of 1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

22. COOLING TOWER - SULFATE NUMBER 5 – B005213; consisting of the following:

Evapco mfg cooling tower with a design drift rate of 0.0001 and a circulation rate of 2400 gpm. This tower functions as an ammonia condenser for the sulfate refrigeration process. Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and

specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of 1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

23. COOLING TOWER – SULFATE NUMBER 6 – B005211; consisting of the following:
Evapco mfg cooling tower with a design drift rate of 0.0001 and a circulation rate of 2400 gpm. This tower functions as an ammonia condenser for the sulfate refrigeration process. Equipment associated with the cooling tower is:

Capacity	Equipment Name	Order
90.00	Exhaust Fans, six (6) @ 15 hp each	1
15.00	Water Circulation Pumps, two (2) @ 7.5 hp each	2

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.0035 percent based on the maximum circulation rate of

1800 gpm. The maximum PM and PM10 emission rates shall not exceed 1.35 and 0.92 lb/hr respectively.*[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](for Periodic Monitoring Requirements, see Part II and Part III conditions)*
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

24. BORAX COOLING TOWER; MDAQMD PERMIT # B001926; consisting of the following:
A Sante Fe Tank and Tower Company cooling tower with design circulation rate of 4,700 gallons per minute and provides cooling for the Borax process. Equipment associated with the cooling tower is:

Capacity	Equipment Name
90.00	(3) Exhaust fans, @ 30 hp each
280.00	(3) Utility circulating pumps, 150 hp, 100 hp, and 30 hp

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The drift rate shall not exceed 0.002 percent with a maximum circulation rate of 4700 gpm. The maximum emission rate of PM and PM10 shall not exceed 1.07 and 0.73 lb/hr respectively (based on a TDS of 30,000 ppmw with maximum flow rate and drift rate).
[NSR]

4. Weekly tests of the blowdown water quality shall be performed by the owner / operator in accordance with standard test procedures. Based on these tests and a drift rate of

0.0008%, which was the measured drift date in 1990, the mass emission rates for PM and PM10 shall not exceed 1.07 and 0.73 lb/hr respectively. Results of these weekly tests, including mass emission rate, shall be logged and maintained on site for a minimum of five (5) years and provided to District, state or federal personnel upon request.
[NSR]

5. This equipment does not require a regularly scheduled emission compliance test, however, testing may be required at the discretion of the District.
[NSR]

6. A maintenance procedure shall be established that states how often and what procedures will be used to ensure the integrity of the drift eliminators. This procedure is to be kept on-site and be available to District, state or federal personnel upon request.

7. The owner / operator shall maintain a log which, as a minimum, consists of the following: (a) Date blowdown water quality test was performed, (b) Concentration of PM and PM10, (c) Circulation flow rate, and (d) Mass emission rate of PM and PM10 (lb/hr). This log shall be maintained on site for a minimum of five (5) years and be provided District, state or federal personnel upon request.

25-30. [RESERVED]

31. <u>MOBILE TRANSLOADING CONVEYOR; MDAQMD PERMIT # B005205; consisting of the following:</u>
<u>Mfg. By Yuba City Steel, SN 122458, open, 35' l w/ Honda 18 hp gasoline engine:</u>

<u>PERMIT CONDITIONS:</u>
1. Materials processed by equipment in this permit shall contain sufficient natural and/or added moisture to ensure compliance with District rules 401 and 403. Sufficient water and equipment in operable condition shall be maintained on-site and used as necessary to ensure compliance with these rules.

2. The owner / operator shall operate and maintain this equipment in strict accord to recommendations of the manufacturer/supplier and/or sound engineering principles.

32. <u>MOBILE TRANSLOADING CONVEYOR; MDAQMD PERMIT # B005224; consisting of the following:</u>
<u>Manufactured by Applied Conveyor Technologies, Inc, serial No. (NACC #1198), mobile, open & 35' long with a Kohler 15hp gasoline engine and no emission control device</u>:

<u>PERMIT CONDITIONS:</u>
1. Operation of this equipment shall be conducted in compliance with all data and specification submitted with the application under which this permit is issued unless otherwise noted below.

2. Materials processed by equipment in this permit shall contain sufficient natural and/or added moisture to ensure compliance with District rules 401 and 403. Sufficient water and equipment in operable condition shall be maintained on-site and used as necessary to ensure compliance with these rules.

3. The owner / operator shall operate and maintain this equipment in strict accord to recommendations of the manufacturer/supplier and/or sound engineering principles.

33. CONVEYOR - MOBILE TRANSLOADING – B003707; consisting of the following:
Multil-Product, 85 tons/hr, which consists of the following basic and control equipment:

Capacity	Equipment Name	Order
	Baghouse, DCE Unimaster, type UMA100HG1	1
	Conveyor, Wilson 24" Model 219 D, serial number 01930442	2
	Spout, flexible - for sealing to trucks	3
35.00	Motor, Hatz 3L40C diesel	4

PERMIT CONDITIONS:

1. Operation of this equipment shall be conducted in compliance with all data and specifications submitted with the application under which this permit is issued unless otherwise noted below.

2. The Maximum grain loading in the stack of the baghouse shall not exceed 0.02 grains per dscf and the emission of PM10 shall not exceed 0.16 pounds per hour.

3. The owner / operator shall operate this equipment in such a manner that the following District rules are strictly adhered to: Rule 401, Visible Emissions; Rule 402, Nuisance; Rule 403, Fugitive Dust; Rule 404, Particulate Matter, and Rule 405, Solid Particulate.

4. The owner / operator shall operate and maintain this equipment in strict accord to recommendations of the manufacturer/supplier and/or sound engineering principles.

5. This equipment does not require a regularly schedules emission compliance test. However, emission compliance testing may be required at the discretion of the District. The owner / operator shall have such tests performed to determine compliance with permit limits and Rules 404 and 405.

6. This equipment is also permitted to be operated at the Argus and Trona facilities.

34-37. [RESERVED]

38. TANK, WASTE OIL; MDAQMD PERMIT NUMBER T009101: primarily used to store waste compressor oil:

PERMIT CONDITIONS:

1. Hazardous or toxic material other than used oil shall not be stored in this tank.

WESTEND FACILITY WASTE OIL STORAGE, PAINT SPRAY AND PORTABLE ABRASIVE BLASTING EQUIPMENT:

39. PAINT SPRAY GUNS; MDAQMD PERMIT #s P004050 (Binks, Model Mach 1, HVLP, Serial # 66438) & P004051 (Binks, Model Mach 1, HVLP, Serial # 74674):

PERMIT CONDITIONS:

1. All coatings, diluents, thinners, solvents and methods of application shall comply with MDAQMD Rules 1113, 1114, 1115, 1116, and 442. Owner/Operator shall not discharge organic materials into the atmosphere from equipment in which organic solvents or materials containing organic solvents are used, unless such emissions have been reduced to the levels allowed in Rule 442.

2. A daily log shall be maintained of the VOC emissions from this operation, which contains at least the following items:
   i. Equipment used to apply coating
   ii. Type of coating used and its VOC limit under the applicable Rule
   iii. Quantity of coating used and its VOC content
   iv. Total VOCs generated by ii and iii above if covered; and
   v. Type of material being coated.

3. A daily record of usage for both photochemically and non-photochemically reactive solvents, diluents, thinners, reducers, cleaners, etc., which includes quantity and description, shall be maintained on-site. Note: The daily log information provides a basis for the Toxic Emission Inventory required by AB2588. Note 2: photochemically reactive solvents not allowed per District permit condition.

4. This log shall be kept current, on-site for a minimum of five (5) years and provided to MDAQMD, state, or federal personnel on request.

5. The owner / operator shall operate equipment described in this permit in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles which will produce the minimum emission of air contaminants. Spray equipment shall be given unique identification marks attached thereto prior to use under this permit.

6. No photochemically reactive portion of the coating is permitted. This includes the coating as purchased and any solvents which may be used as diluent, thinner, reducer or cleaner. *[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements](For Periodic Monitoring Requirements, see Part II and Part III conditions)*
   [Rule 204 - *Permit Conditions*; Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(c)(39)(ii)(B) - 11/09/78 - 43 FR 52237; Current Rule Version = 07/25/77]

7. This gun may be operated outside of the main areas of operation and/or a spray booth.

40. [RESERVED]

D. EQUIPMENT DESCRIPTION: RAILROAD:

1. SAND LOADOUT/STORAGE; MDAQMD PERMIT # B003883; CONTROLED BY BAGHOUSE; MDAQMD PERMIT # C003884:

Tank, Storage, 6'6"dia x 17'h, (565 cu. Ft.)
Conveyor, 9.5"" x 44', w/ 5.0 hp motor
Tank, Feed, 5'x5'x4+' (121 cu ft.):

PERMIT CONDITIONS:

1. The sand storage tank shall not be operated or loaded unless vented to the functioning pollution control device covered by District permit C003884

2. The owner / operator shall operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. This system shall not be operated unless the elevator and transfer point to the feed tank is completely covered.

2. SAND STORAGE BAGHOUSE; MDAQMD PERMIT # C003884; consisting of the following:

Baghouse, Environmental Filters, Inc. Model No.66MS7:

PERMIT CONDITIONS:

1. The maximum grain loading in the stack of this baghouse shall not exceed 0.02 grains/dscf and emissions of PM10 shall not exceed 0.08 lbs/hr.

2. The owner / operator shall operate and maintain this equipment in strict accord with the recommendations of the manufacturer/supplier and/or sound engineering principles.

3. The operating instructions shall be immediately available for use by the operator and provided to District, state or federal personnel upon request.

4. This equipment shall be operated concurrently with the Sand Storage Tanks and Conveyor covered in District permit B003883.

5. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.

RAILROAD FACILITY WASTE OIL STORAGE EQUIPMENT:

3. 5000 GALLON AND 1000 GALLON ABOVEGROUND WASTE CRANKCASE OIL STORAGE TANKS; MDAQMD PERMIT #'s T003953 (5,000 gal, 6' dia x 24' l, co-located within containment area w/ a 20,000 gal diesel tank) & T003952 (1,000 Gallon, 45" diam. x 12' long and located near gasoline & diesel dispensing station):

PERMIT CONDITIONS:

1. This tank is limited to storing IC engine waste oil generated on-site by SWM. No hazardous or toxic materials other than internal combustion engine crankcase drainage oil may be stored in this tank.

2. Owner/Operator shall keep data for all shipments of oil to other parties. This data shall contain the mass (or volume) throughput for District emission inventory purposes.

3. Owner/Operator shall maintain and keep data for a minimum of five (5) years and provide it to District, state or federal personnel on request.

4. [RESERVED]

PART IV
STANDARD FEDERAL OPERATING PERMIT CONDITIONS

A. STANDARD CONDITIONS:

1. If any portion of this Federal Operating Permit is found to be invalid by the final decision of a court of competent jurisdiction the remaining portion(s) of this Federal Operating Permit shall not be affected thereby.
[40 CFR 70.6(a)(5); Rule 1203(D)(1)(f)(i)]

2. The Owner/Operator shall comply with all condition(s) contained herein. Noncompliance with any condition(s) contained herein constitutes a violation of the Federal Clean Air Act and of MDAQMD Regulation XII and is grounds for enforcement action; termination, revocation and re-issuance, or modification of this Federal Operating Permit; and/or grounds for denial of a renewal of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(i); Rule 1203(D)(1)(f)(ii)]

3. It shall not be a defense in an enforcement action brought for violation(s) of condition(s) contained in this Federal Operating Permit that it would have been necessary to halt or reduce activity to maintain compliance with those condition(s).
[40 CFR 70.6(a)(6)(ii); Rule 1203(D)(1)(f)(iii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(iv)]

5. The filing of an application for modification; a request for revocation and re-issuance; a request for termination; notifications of planned changes; or anticipated noncompliance with condition(s) does not stay the operation of any condition contained in this Federal Operating Permit.
[40 CFR 70.6(a)(6)(iii); Rule 1203(D)(1)(f)(v)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[40 CFR 70.6(a)(6)(iv); Rule 1203(D)(1)(f)(vi)]

7. The Owner/Operator shall furnish to the MDAQMD, within a reasonable time as specified by the MDAQMD, any information that the MDAQMD may request in writing.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(vii)]

8. The Owner/Operator shall furnish to District, state or federal personnel, upon request, copies of any records required to be kept pursuant to condition(s) of this Federal Operating Permit.
[40 CFR 70.6(a)(6)(v); Rule 1203(D)(1)(f)(viii)]

9. Any records required to be generated and/or kept by any portion of this Federal Operating Permit shall be retained by the facility Owner/Operator for at least five (5) years from the date the records were created.
[40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

10. The Owner/Operator shall pay all applicable fees as specified in MDAQMD Regulation III, including those fees related to permits as set forth in Rules 301 and 312.
[40 CFR 70.6(a)(7); Rule 1203(D)(1)(f)(ix)]

11. The Owner/Operator shall not be required to revise this permit for approved economic incentives, marketable permits, emissions trading or other similar programs provided for in this permit.
[40 CFR 70.6(a)(8); Rule 1203(D)(1)(f)(x)]

12. Compliance with condition(s) contained in this Federal Operating Permit shall be deemed compliance with the Applicable Requirement underlying such condition(s). The District clarifies that "only" Applicable Requirements listed & identified elsewhere in this Title V Permit are covered by this Permit Shield and does not extend to any unlisted/unidentified conditions pursuant to the requirements of 40 CFR 70.6(f)(1)(i).
[40 CFR 70.6(f)(1)(i); Rule 1203(G)(1)]

13. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the emergency powers of USEPA as set forth in 42 U.S.C. §7603.
[40 CFR 70.6(f)(3)(i); Rule 1203(G)(3)(a)]

14. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit liability for violations, which occurred prior to the issuance of this Federal Operating Permit.
[40 CFR 70.6(f)(3)(ii); Rule 1203(G)(3)(b)]

15. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to alter any Applicable Requirement Contained in the Acid Rain Program.
[40 CFR 70.6(f)(3)(iii); Rule 1203(G)(3)(c)]

16. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to limit the ability of USEPA or the MDAQMD to obtain information pursuant to other provisions of law including but not limited to 42 U.S.C. §7414.
[40 CFR 70.6(f)(3)(iv); Rule 1203(G)(3)(d)]

17. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to emissions trading pursuant to provisions contained in an applicable State Implementation Plan.
[40 CFR 70.4(b)(12)(ii)(B); Rule 1203(G)(3)(e)]

18. The Permit Shield set forth above, in condition 12 of Part IV, shall not be construed to apply to changes made which are not expressly allowed by this Federal Operating Permit.

[40 CFR 70.4(b)(14)(iii); Rule 1203(G)(3)(f)]

19. The Permit Shield set forth in Part IV, condition 12, shall not be construed to apply to changes made pursuant to the Significant Permit Modification provisions until such changes are included in this Federal Operating Permit.
[40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi); Rule 1203 (G)(3)(g)]

20. If the Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, the Owner/Operator shall comply with the standards for Recycling and Emissions Reduction pursuant to 40 CFR Part 82, Subpart F. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart F]

21. If the Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), the Owner/Operator shall comply with the standards for Servicing of Motor Vehicle Air Conditioners pursuant to all the applicable requirements as specified in 40 CFR Part 82, Subpart B. These requirements are Federally Enforceable through this Title V Permit.
[40 CFR Part 82, Subpart B]

22. Notwithstanding the testing requirements contained elsewhere in this Title V Permit, any credible evidence may be used to establish violations, including but not limited to; reference test methods, engineering calculations, indirect estimates of emissions, CEMS data, and parametric monitoring data. Data need not be required to be collected in a Title V permit in order to be considered credible.
[Section 113(a) of the Clean Air Act]

PART V
OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

No additional Operational Flexibility provisions allowed without appropriate permit modifications.

B. OFF PERMIT CHANGES:

I. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:

A. Permitee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of Rule 219; and

1. The proposed change is not:

a. Subject to any requirements under Title IV of the Federal Clean Air Act; or *[See 1203(E)(1)(c)(i)(b)(2)]*

b. A modification under Title I of the Federal Clean Air Act; or

c. A modification subject to Regulation XIII; and *[See 1203(E)(1)(c)(i)(b)]*

d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(b)]*

e. The change does not result in the exceedance of the emissions allowable under this permit (whether expressed as an emissions rate or in terms of total emissions). *[See 1203(E)(1)(c)(i)(b)(3)]*

II. Procedure for "Off Permit" Changes

A. If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permitee shall implement the change as follows:

1. Permitee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(i)(a)]*

2. In addition to the information required pursuant to the provisions of Regulation II and Regulation XIII such application shall include:

a. A notification that this application is also an application for an "Off Permit" Change pursuant to this condition; and *[See 1203(E)(1)(c)(ii)b]*

b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(ii)b.]*

c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. *[See 1203(E)(1)(c)(ii)b]*

3. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(ii)c]*

B. Permitee may make the proposed change upon receipt from the District of the

Authority to Construct Permit or thirty (30) days after forwarding the copy of the notice and application to USEPA whichever occurs later. *[See 1203(E)(1)(c)(ii)a and g]*

C. Permitee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off Permit Change to this Title V permit. *[See 1203(E)(1)(c)(i)f]*

D. Permitee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). *[See 1203(E)(1)(c)(i)f]*

III. Other Requirements:

A. The provisions of Rule 1205 – Modifications do not apply to an Off Permit Change made pursuant to this condition.

B. The provisions of Rule 1203(G) – Permit Shield do not apply to an Off Permit Change made pursuant to this condition. *[See 40 CFR 70.4(b)(i)(B)]*[Rule 1203(E)(1)(c)]

PART VI
CONVENTIONS, ABREVIATIONS, DEFINITIONS

A. The following referencing conventions are used in this Federal Operating Permit:

40CFR60, Standards of Performance for New Stationary Sources (NSPS)
40CFR60, Appendix F, Quality Assurance Procedures
40CFR61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40CFR61, Subpart M, National Emission Standards for Asbestos
40CFR63, NESHAP (MACT)
40CFR72, Permits Regulation (Acid Rain Program)
40CFR73, Sulfur Dioxide Allowance System
40CFR75, Continuous Emission Monitoring
40CFR75, Subpart D, Missing Data Substitution Procedures
40CFR75, Appendix B, Quality Assurance and Quality Control Procedures
40CFR75, Appendix C, Missing Data Estimating Procedures
40CFR75, Appendix D, Optional SO_2 Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO_2 Emissions

B. Other conventions:

1. Unless otherwise noted, a "day" shall be considered a 24 hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
ATCM	Air Toxic Control Measure
bhp	brake horse power
Btu	British thermal units
CCR	California Code of Regulations
CEMS	continuous emissions monitoring system
CO	carbon monoxide
CO_2	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour

hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb / hr	pounds per hour
lb / MMBtu	pounds per million British thermal units
MACT	maximum achievable control technology
MMBtu	million British thermal units
MMBtu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e) net	net Megawatt electrical power
NH_3	ammonia
NMOC	non-methane organic compounds
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide
NSPS	new source performance standard
O_2	oxygen
pH	pH (acidity measure of solution)
PM_{10}	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute
scfh	standard cubic feet per hour
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO_x	oxides of sulfur
SO_2	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure

D. Definitions

1. Responsible Official - the person listed in Part I as the Responsible Official, or any other person that meets the definition of a Responsible Official in Rule 1201(Y).

E. MDAQMD Rule SIP History

For Rule SIP History including approval, pending approval, etc, see:
http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=45

APPENDIX A
PERMIT REVISION HISTORY

April 6, 2012 - Five Year Permit Term Renewal, for the period March 11, 2012 thru March 11, 2012, described as follows:
Parts I and III update with cancellation of the following permits:
B004551, B007788, B009075, B009077, B009079, C009076, C009078, C009080, B004514, B009172, B009173, and B009158.

Part I:
Part I update to "Operating Permits List" with additions, deletions, and name changes.

Part II:
Updated Rule 1113 references, Part II (A)(28); Page VI-212; Updated Rule 442 references, Part II(A)(26); Revised Rule 1116 VOC limits to current (SIP Pending), Part II (A)(31); Added Rule 1211 requirements (SIP Pending), Part II (A)(33);

Part III:
Deleted list of operating permits from sections A, B, C, and D. The facility wide list of operating permits is located in Part I;

Part III (B)(43) condition 3 and 4, and B(46) condition 3; Revised to include provisions of 40 CFR §98.33 - Calculating GHG emissions. Specifically, equipment to have CO2 CEMS and CERMS to meet Tier 4 Calculation Methodology found in 68.33(a)(4) for calculation of CO2.

Revised stationary emergency diesel IC engine permits to include 40 CFR part 63 subpart ZZZZ requirements. Part III (H) updated to reflect portability of unit.

Part VI:
Added definition of "Responsible Official", Part VI(D)(1); Added Rule SIP History Reference, Part VI (E);
Changes made by C. Anderson

August 25, 2011 Minor Modification:
A coal treatment system was added, consisting of calcium bromide and cement kiln dust. System is controlled for PM with bin vents for CKD storage silo and weigh hopper. CT will be mixed with coal in crusher house under District permit B000521. PM emissions change negligible, <1 lb/yr.
Revised Part I and added Part III (B)(52a)-Refined Coal Treatment System (B011272) as well as added condition 7 (initial compliance test) to Part III (B)(55)-Baghouse C002125.
Changes made by C. Anderson

May 4, 2010 Minor Modification:
Added bucket elevators enabling magnesium chloride processing option to soda ash production lines 1, 2 and 3 (B000537, B000538 and B000547) and addressed alternate operation of said lines without heat from associated bleachers. Added monitoring and testing requirements to

associated crystallizer scrubbers 1, 2 and 3 (C000553, C000556 and C000552). No increase in emissions. Revised Part I and III to transform E003522 from emergency generator to emergency standby engine.

February 10, 2010 Significant Permit Modification described as follows:
Updated Sections I and III to reflect the addition of Boiler No 5, B009992, and the deletion of Boiler No 1, B000232. Pages affected: I-10; III-172, and III-187 through III-189 (Changes per Samuel J. Oktay, PE)

November 6, 2009 Administrative Modification described as follows:
Part I.A, Permits E009159, B009160, B009161, E009163, and B003955, added to contents.
Part I.A, Permits E003522, E003523, E004519, and E004553, updated contents to emergency.
Part I.B, Permit B004515, removed from contents.
Part I.D, Permit B009158, added to contents.
Part III.A.A, Permit M003522 to E003522, updated conditions to reflect emergency use.
Part III.A.B, Permit B003523 to E003523, updated conditions to reflect emergency use only.
Part III.A.C, Permit B004519 to E004519, updated conditions to reflect emergency use only.
Part III.A.D, Permit B004553 to E004553, updated conditions to reflect emergency use only.
Part III.A.E, Permit B004554, updated conditions to applicable Portable ATCM requirements.
Part III.A.F, Permit B007852, updated conditions to applicable Portable ATCM requirements.
Part III.A.I, Permit B009161, updated conditions to applicable Portable ATCM requirements.
Part III.B.57, Permit B004515, cancelled permit and left "Reserved" placeholder.
Part III.B.58, Permit B004550 to E004550, updated conditions to reflect emergency use only.
Part III.B.59, Permit B004551, updated conditions to applicable Portable ATCM requirements.
Part III.B.60, Permit B005124, updated conditions to applicable Portable ATCM requirements.
Part III.B.61, Permit B007788, updated conditions to applicable Portable ATCM requirements.
Part III.C.34, Permit B004514, updated conditions to applicable Portable ATCM requirements.
Part III.C.35, Permit E004708, updated conditions to applicable ATCM requirements.
Part III.D.3.B, Permit B009158, changed K0165 to K0615.
Part III.A.1.a and A.2.a, Permits B000448 and B000449, removed cyclone requirement.
Part III.A.13, Permit B000490, revised to include specific reference to process screen types.
Part III.A.26.4, Permit B001916, added EXXSOL D 60 as District approved kerosene.
Part III.A.39, Permit B003955, corrected description of equipment.
Part III.A.B, Permit P005206, paint gun changed Sharpe (HVLP) to Binks Mach 1 (HVLP).
Part III.B.43, Permit B000555, revised Bowl Feed Mills 3 @ 400 hp each, no equipment change.
Part I.B and Part III.B.A, Permit A000523, abrasive blaster model changed to Clemco.
Part III.C.8, Permit C000353, updated equipment description to include screw conveyor.

Minor general formatting changes to document as a result of Administrative Mods.
Per D. Mason request replaced John F. Tancredi with Mr. Stephen W. Cole as President in Part I.
Changes made by C. Anderson

June 4, 2007 Minor Permit Modification described as follows:
Updated Sections I and III to reflect changes to B000520, modifying the amount of exterior solid fuel activity and increasing related water use for dust suppression, with associated new operational log requirements. (Alan De Salvio)

January 17, 2007: 5 Year Permit Term Renewal for *Searles Valley Minerals (SVM) for the period March 11, 2007 through March 11, 2012. (By, Bill Weese)*

April 21, 2005 Significant Permit Modification described as follows:
Updated Sections I and III to add new permits B009075, C009076, B009077, C009078, B009079 and C009080. Updated Sections I and III to remove the following cancelled permits: A004049, B000230, B000231, B001636, B002486, C000243, C000244, C000355, C001693, C002890, C002891, C002892, M000234. (By, Alan De Salvio)

May 28, 2004 Significant Permit Modification described as follows:
Updated cover sheet and contact information to reflect name change from IMC Chemicals to Searles Valley Minerals Operations.
Updated Sections I and III to reflect changes made to permits B000228, B008672 and C000516.

April 21, 2003 Significant Permit Modification described as follows:
Updated Section III to reflect changes made to permits C000489, C000509, C000513 and C002487.

March 11, 2003 Significant Permit Modification described as follows:
Revise Title Page to reference page 2 for permit modification summaries.
Insert new page 2 and added detailed summaries for previous and current Title 5 changes.
Revised entire Title 5 format.
Updated Title 5 permit pages III 45-III 48 to reflect changes made to District Permits: C000516, C0001685, C001761, and C001978.

September 18, 2002 Administrative Modification described as follows:
These Administrative changes are necessary to correct the previously issued IMC Title 5 Permit (# 90002, issued 3/11/02).
Page 2, Table of Contents is updated for corrected page numbering.
Page III-69, BHP is corrected from 755 to the correct value of 190 from District Permit # B004516.
Page III-88 & 89; Item III.B.10(5), monohydrate crystallizer scrubber No. 1 (C000553) inventory of bags condition 5 not applicable for this equipment type and is not in MDAQMD Permit C000553. Condition deleted & renumbering done.
Page III-113 & 114; Item III.B.26(6), Condition 6 was replaced by the correct condition 6 existing in MDAQMD Permit C003667.

April 08, 2002 Significant Permit Modification described as follows:
Permit conditions were modified to define potential-to-emit (through emission limits), clarify record keeping, and require the surrender of emission offsets. No equipment was added; the only changes are to permit condition language. Six pages (III-168 through 172 and 172.1) of modified permit descriptions and conditions replaced five existing pages (III-168 through 172) in the Title V permit for IMC Chemical Company – Trona, Argus and Westend facilities (Permit Number 90002).

March 28, 2002 Administrative Modification described as follows:

Administrative changes were made to correct the previously submitted IMC Title 5 Permit (# 90002, issued 3/11/02). Part II, Page II-10, condition # 12 was modified to reflect the CAPCOA, CARB, EPA Recommended Periodic Monitoring document dated June 24, 1999. Part III, Page III-88, condition # 10 was modified to reflect District Permit # C000553 wording that was not copied correctly. The other change, Part III, Page III-103, condition # 21-A, was modified to reflect a more accurate description of baghouses subject to Subpart OOO.

APPENDIX B
COMPLIANCE ASSURANCE MONITORING
BOILER 25 AND 26

COMPLIANCE ASSURANCE MONITORING PLAN (CAM Plan)

For

Boiler 25

SEARLES VALLEY MINERALS

MAY 2016

Compliance Assurance Monitoring Plan (CAM Plan)
Searles Valley Minerals

I. Emission Unit

Description: Pulverized Coal –Fired Boiler

Identification: Boiler # 25

Facility: Searles Valley Minerals
13200 Main Street
Trona, California

II. Applicable Regulations, Limits, and Monitoring Requirements

Regulations: MDAQMD Rule 476 Steam Generating Unit

Permit Number: B000555

Emission Limits: Particulate Matter Grain Loading Requirement of 0.01 gr/scf

Monitoring Requirements: Annual Compliance Test

Control Technology: Electrostatic Precipitators (ESP), 4 fields

III. Monitoring Approach

A. Background

Boiler # 25 is subject to the Compliance Assurance Monitoring (CAM) requirements for Particulate Matter (PM) because the potential pre-control device emissions are greater than the major source threshold for PM (100 tons per year) and there is no continuous monitor for the PM emissions. Boiler # 25 is classified as an "other pollutant specific emission unit" because its post control emissions are less than major source threshold.

The opacity in the ESP exhaust is measured continuously by Continuous Opacity Monitoring System (COMS) and demonstrates a reasonable indication of PM compliance as explained by the document "U.S. EPA document CAM protocol for an ESP controlling particulate matter".

Boiler # 25 is a pulverized tangentially fired unit with a maximum firing rate of 1025 MMBtu/hr. Upon leaving the boiler, the exhaust gases pass through an economizer, an air heater, an ESP, an ID fan and a wet scrubber before exiting the stack.

The key elements of the monitoring approach, including the indicator to be monitored, indicator range, and performance criteria are presented in Table 1. The CAM performance indicator is the opacity of the ESP exhaust.

Table 1
Monitoring Approach Data

Description	Indicator
A. Indicator	Opacity in ESP exhaust
Measurement Approach	COMS in ESP exhaust
B. Indicator Range	The opacity indicator range is when 1-hour block average opacity greater than 20 % as measured by COMS and recorded by the CEMDAS (Continuous Emission Monitoring Data Acquisition System).
Data Representativeness	The COMS was installed at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, PS-1
Verification of Operational Status	Opacity is recorded continuously
QA/QC Practices and Criteria	Zero and Span drift are checked daily and a quarterly filter audit is performed.
Monitoring Frequency	The opacity of the ESP exhaust is monitored continuously (every 10 seconds)
Data Collection Procedure	The CEMDAS retains all 3-minute and hourly average opacity data

Description	Indicator
Averaging Period	The 10-second opacity data are used to calculate 3-minute averages. The 3-minute averages are used to calculate the hourly block average opacity

IV. Justification for Monitoring Approach

Rationale for Selection of Performance Indicators

The stack exhaust gas opacity was selected as a performance indicator because an increase in opacity indicates increase in PM emissions. Once the excursion indicator is reached, the facility will analyze data collected for evidence of opacity spiking as well as other indicators such as ESP operation and Boiler operation.

Because ESP is the control device used to meet the PM emission limit, its proper operation is essential to having compliant particulate matter emissions. ESP operating parameters such as number of TR sets in service, primary amps, primary voltage, secondary amps, secondary voltage, sparks/minute, firing angle and kilowatts are recorded continuously to ensure proper operation of the ESP. If an excursion indicator is identified, information as described above will be reviewed so proper ESP operation can be ascertained.

Proper Boiler operation is essential to meet particulate matter emissions. Boiler parameters such as type of coal, boiler load, bowl mill capacity, soot blow, and air to fuel ratio among others will be reviewed to ensure proper operation of the Boiler.

Rationale for Selection of Indicator Ranges

The opacity range is the instrument range (0 to 100%). During normal operation, the stack exhaust opacity readings are typically less than 7%. An excursion of the CAM range will occur when one hour block averages exceed 20%. One hour block average is preemptive than using 3 hour average required determining compliance with EPA Method 5 particulate compliance test.

V. Recordkeeping and Reporting

A monthly breakdown report and Boiler quarterly emission report will include the excursion start and stop time, duration, the cause of excursion from the CAM opacity range, and the corrective actions taken to restore indicator to acceptable levels.

VI. QIP (Quality Improvement Plan) Threshold

In accordance to 40 CFR § 64.8 (a), the QIP threshold is an accumulation of exceedances or excursions exceeding 5 percent duration of the Boiler operating time outside the CAM opacity range. If the QIP threshold is exceeded in a Boiler quarterly reporting period, a QIP will be developed and implemented.

COMPLIANCE ASSURANCE MONITORING PLAN (CAM Plan)

For

Boiler 26

SEARLES VALLEY MINERALS

MAY 2016

Compliance Assurance Monitoring Plan (CAM Plan)
Searles Valley Minerals

I. Emission Unit

Description: Pulverized Coal –Fired Boiler

Identification: Boiler # 26

Facility: Searles Valley Minerals
13200 Main Street
Trona, California

II. Applicable Regulations, Limits, and Monitoring Requirements

Regulations: MDAQMD Rule 476 Steam Generating Unit

Permit Number: B000554

Emission Limits: Particulate Matter Grain Loading Requirement of 0.01 gr/scf

Monitoring Requirements: Annual Compliance Test

Control Technology: Electrostatic Precipitators (ESP), 4 fields

III. Monitoring Approach

A. Background

Boiler # 26 is subject to the Compliance Assurance Monitoring (CAM) requirements for Particulate Matter (PM) because the potential pre-control device emissions are greater than the major source threshold for PM (100 tons per year) and there is no continuous monitor for the PM emissions. Boiler # 26 is classified as an "other pollutant specific emission unit" because its post control emissions are less than major source threshold.

The opacity in the ESP exhaust is measured continuously by Continuous Opacity Monitoring System (COMS) and demonstrates a reasonable indication of PM compliance as explained by the document "U.S. EPA document CAM protocol for an ESP controlling particulate matter".

Boiler # 26 is a pulverized tangentially fired unit with a maximum firing rate of 1025 MMBtu/hr. Upon leaving the boiler, the exhaust gases pass through an economizer, an air heater, an ESP, an ID fan and a wet scrubber before exiting the stack.

The key elements of the monitoring approach, including the indicator to be monitored, indicator range, and performance criteria are presented in Table 1. The CAM performance indicator is the opacity of the ESP exhaust.

Table 1
Monitoring Approach Data

Description	Indicator
A. Indicator	Opacity in ESP exhaust
Measurement Approach	COMS in ESP exhaust
B. Indicator Range	The opacity indicator range is when 1-hour block average opacity greater than 20 % as measured by COMS and recorded by the CEMDAS (Continuous Emission Monitoring Data Acquisition System).
Data Representativeness	The COMS was installed at a representative location in the ESP exhaust per 40 CFR 60, Appendix B, PS-1
Verification of Operational Status	Opacity is recorded continuously
QA/QC Practices and Criteria	Zero and Span drift are checked daily and a quarterly filter audit is performed.
Monitoring Frequency	The opacity of the ESP exhaust is monitored continuously (every 10 seconds)
Data Collection Procedure	The CEMDAS retains all 3-minute and hourly average opacity data

Description	Indicator
Averaging Period	The 10-second opacity data are used to calculate 3-minute averages. The 3-minute averages are used to calculate the hourly block average opacity

IV. Justification for Monitoring Approach

Rationale for Selection of Performance Indicators

The stack exhaust gas opacity was selected as a performance indicator because an increase in opacity indicates increase in PM emissions. Once the excursion indicator is reached, the facility will analyze data collected for evidence of opacity spiking as well as other indicators such as ESP operation and Boiler operation.

Because ESP is the control device used to meet the PM emission limit, its proper operation is essential to having compliant particulate matter emissions. ESP operating parameters such as number of TR sets in service, primary amps, primary voltage, secondary amps, secondary voltage, sparks/minute, firing angle and kilowatts are recorded continuously to ensure proper operation of the ESP. If an excursion indicator is identified, information as described above will be reviewed so proper ESP operation can be ascertained.

Proper Boiler operation is essential to meet particulate matter emissions. Boiler parameters such as type of coal, boiler load, bowl mill capacity, soot blow, and air to fuel ratio among others will be reviewed to ensure proper operation of the Boiler.

Rationale for Selection of Indicator Ranges

The opacity range is the instrument range (0 to 100%). During normal operation, the stack exhaust opacity readings are typically less than 7%. An excursion of the CAM range will occur when one hour block averages exceed 20%. One hour block average is preemptive than using 3 hour average required determining compliance with EPA Method 5 particulate compliance test.

V. Recordkeeping and Reporting

A monthly breakdown report and Boiler quarterly emission report will include the excursion start and stop time, duration, the cause of excursion from the CAM opacity range, and the corrective actions taken to restore indicator to acceptable levels.

VI. QIP (Quality Improvement Plan) Threshold

In accordance to 40 CFR § 64.8 (a), the QIP threshold is an accumulation of exceedances or excursions exceeding 5 percent duration of the Boiler operating time outside the CAM opacity range. If the QIP threshold is exceeded in a Boiler quarterly reporting period, a QIP will be developed and implemented.

APPENDIX C
MDAQMD SIP TABLE

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
203	*Permit to Operate*	1/7/77	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
204	*Permit Conditions*	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
206	*Posting of Permit to Operate*	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
207	*Altering or Falsifying of Permit*	1/9/76	[SIP: Approved 11/09/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 52.220(c)(31)(vi)(C)]	Y	
209	*Transfer and Voiding of Permit*	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	
217	*Provision for Sampling And Testing Facilities*	1/9/76	[SIP: Approved 11/9/78, 43 FR 52237, 40 CFR 52.220(c)(39)(ii)(B) and 40 CFR 52.220(c)(31)(vi)(C)]	Y	

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
219	*Equipment Not Requiring a Written Permit*	SB - 6/6/77 RC - 9/4/81	SB - [SIP: Approved 11/9/78, 43 FR, 52237, 40 CFR 52.220(c)(31)(vi)(C), 40 CFR 52.220(c)(32)(iv)(C), and 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 7/6/82, 47 FR 29231, 40 CFR 52.220(c)(103)(xviii)(A)]	Y	
221	*Federal Operating Permit Requirement*	12/21/94	[SIP: Approved 2/5/96, 61 FR 4217, 40 CFR 52.220(c)(216)(i)(A)(2)]	Y	
301	*Permit Fees*	Not in SIP	Applicable Version = Most current amendment, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	Rule 301 is a fee rule and does not ordinarily require submission to USEPA. Various prior versions of Rule 301 were previously included in the State Implementation Plan (SIP) however USEPA removed this rule from the SIP on 01/18/02 (67 FR

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
					2573; 40 CFR 52.220(c)(39)(iv)(C)). Therefore, this rule is not required to be a federal submittal.
312	*Fees for Federal Operating Permits*	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
401	*Visible Emissions*	SB - 7/25/1977RC - 2/4/1977 (subdivision (a))RC - 10/15/82 (subdivision (b))	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(C)]RC (a) - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR 52.220(c)(39)(iv)(C)]RC (b) - [SIP: Approved 10/19/84, 49 FR 41028, 40 CFR 52.220(c)(127)(vii)(C)]	Y	
403	*Fugitive Dust*	SB - 7/25/1977 RC - 7/25/1977	SB - [SIP: Approved 9/8/78, 43 FR 4001, 40 CFR 52.220(c)(39)(ii)(B)] RC - [SIP: Approved 9/8/78, 43 FR 40011, 40 CFR	Y	

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
			52.220(c)(39)(iv)(C)]		
403.2	*Fugitive Dust Control for the Mojave Desert Planning Area*	N/A	**SIP Pending:** as amended 07/22/1996 and submitted 10/18/1996	?	
404	*Particulate Matter Concentration*		[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	
405	*Solid Particulate Matter, Weight*		[SIP: Approved 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
406	*Specific Contaminants*	SB - 7/25/1977 (subdivision (a)) RC - None	SB - [SIP: Approved, 12/21/78, 43 FR 59489, 40 CFR 52.220(c)(42)(xiii)(A)]	Y	
407	*Liquid and Gaseous Air Contaminants*	5/7/76	SB - [SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C)] RC - [Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
408	*Circumvention*	5/7/76	[SIP: Approved 9/8/78, 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C	Y	

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
			); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]		
409	*Combustion Contaminants*	5/7/76	[SIP: Approved 9/8/78; 43 FR 40011; 40 CFR 52.220(c)(39)(ii)(C); Approved 6/14/78, 43 FR 25684, 40 CFR 52.220(c)(32)(iv)(A)]	Y	
430	*Breakdown Provisions*	Not in SIP	Applicable Version = Amended: 12/21/94, Applicable via Title V Program interim approval 02/05/96 61 FR 4217	Y	
431	*Sulfur Content of Fuels*	SB - 10/8/1976 RC - ?	SB - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(B) and 40 CFR 52.220(c)(39)(ii)(B) RC - [SIP: Approved 9/8/1978, 43 FR 40011, 40 CFR 52.220(c)(37)(i)(C), 40 CFR 52.220(c)(39)(iv)(C), and 40 CFR 52.220(c)(39)(vi)(B)	Y	
441	*Research Operations*		**SIP: Not SIP: District Rule 441 –** *Research Operations* Disapproved 1/16/81 and 40 CFR 52.272(a)(9)(i)]	N	

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
442	*Usage of Solvents*	2/27/06	[SIP: Approved 09/17/2007, 72 FR 52791, 40 CFR 52.220(c)(347)(i)(C)(1)]	Y	
444	*Open Outdoor Fires*	9/25/06	[SIP: Approved 10/31/2007, 72 FR 61525, 40 CFR 52.220(c)(350)(B)(1)]	Y	
1104	*Organic Solvent Degreasing Operations*	9/28/94	[SIP: Approved: 4/30/96, 61 FR 18962, 40 CFR 52.220(c)(207)(I)(D)(2)]	Y	
1113	*Architectural Coatings*	4/23/12	[SIP: Approved: 1/03/14, 79 FR 364, 40 CFR 52.220(c)(428)(i)(C)]	Y	
1114	*Wood Products Coating Operations*	11/25/96	[SIP: Approved: 08/18/98, 63 FR 44132, 40 CFR 52.220(c)(244)(i)(C); Approved 61 FR 18962, 04/30/96]	Y	
1115	*Metal Parts and Products Coating Operations*	4/22/96	[SIP: Approved 12/23/97, 62 FR 67002, 40 CFR 52.220(c)(239)(i)(A)(2)]	Y	
1116	*Automotive Finishing Operations*	8/23/10	[SIP: Approved 8/9/12, 77 FR 47536, 40 CFR 52.220(c)(388)(i)(F)(1)]	Y	
1302	*NSR - Procedure*	3/25/96	[SIP: Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A)(1)]	Y	
1303	*Requirements*	3/25/96	[SIP: Approved 11/13/1996, 61 FR 58133, 40 CFR 52.220(c)(239)(i)(A		

MDAQMD Rule	Title	SIP Rule Version	Citation	Federally Enforceable	Notes
			)(1)]		
Regulation XII	*Federal Operating Permits*		SIP: Not SIP. Final Title V Program Approval 11/21/03 68 FR 65637; Partial Withdrawal of approval 10/15/02 67 FR 63551; Notice of Deficiency 05/22/02 67 FR 35990; Approval 12/17/01 66 FR 63503; Interim Approval 02/05/96 61 FR 4217]		