

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Federal Operating Permit Number: 50001051

For: ACE COGENERATION COMPANY

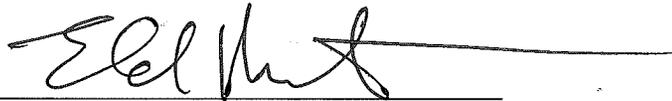
Facility: ACE COGENERATION COMPANY
12801 S. Mariposa Street
Trona, CA 93562

Re-Issued Pursuant to MDAQMD Regulation XII
Effective Date: March 29, 2016

●SEE TITLE V PAGE 2 FOR PERMIT REVISION SUMMARY●

This Federal Operating Permit Expires
March 29, 2021

Issued By: Eldon Heaston
Executive Director
Air Pollution Control Officer



14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
PHONE (760) 245-1661
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PERMIT REVISIONS HISTORY

March 2016 Title V Renewal; by Samuel J Oktay, PE

Note: Facility is presently not operating and was last operated October 2014. Applicant has requested that we (the District) renew their Title V Permit as they transition away from burning coal as their primary energy source; a result of AB32 GHG reduction goals. The owner/operators will continue to curtail their operations while the facility owners’ consider various long term options.

To clarify, none of the equipment listed will be operational at the facility for the foreseeable future. ACE will work with the District and other agencies to ensure that the required air permits are re-activated in a timely manner prior to any equipment emitting air contaminants in the event that facility operations resume.

ACE Cogeneration Company Permits

Permit Description	Permit Number
Baghouse	C002641
Baghouse & Cyclone	C002387
Baghouse (limestone truck unloading and crushing – limestone handling system B002128))	C002129
Baghouse (solid fuel silos and reclaim system)	C002127
Baghouse (junction house 14-solid fuel reclaim system (B003255))	C002126
Diesel IC engine, emergency fire pump	E003368
Baghouse and cyclone (fly ash handling)	C003370
Baghouse (steam generation boiler)	C002121
Ash handling system	B002131
Boiler, steam generating	B002120
Cooling tower	B002122
Limestone handling system	B002128
Solid fuel, reclaim system	B003255
Baghouse (truck dump)	C005121
Solid fuel handling system	B005120
Storage bin, solid fuel	T007861
Baghouse (storage bin)	C007862
Baghouse (silo discharge conveyor)	C007863
Baghouse	C008207
Baghouse (truck dump)	C008206

Other Changes to this Title V Permit Include:

Responsible Official changed; Facility "Site" Contact revised; removed outdated condition 7 from permit C005121; Cancelled District Permits E011451, and C010900.

January 25, 2013 Title V Renewal; by Samuel J Oktay, PE

Revisions made to incorporate EPA Comments including applicable requirements of 40 CFR 63 SUBPART UUUUU. District permits and appropriated sections of Title V Section III have been updated to include applicable 40 CFR 63 Subpart ZZZZ requirements. Part II (27) updated with current 1113 rule requirements; updated Part II to include Rule 1211 requirements, which is pending SIP submission; Mr. Steve Haleman Lead O&M Technician, replaces Mr. Steve Dobbs Operations Manager, as Facility Site Contact; page 11-21 incorporated hard compliance dates.

May 16, 2012 Significant Permit Modification described as follows; by Christian Anderson
Diesel emergency generator, District permit E003369, replaced with new emergency generator, District permit E011451. Updated FOP parts I (Equipment list) and III (added permit unit as part III (Z). Additional Administrative Changes; by Samuel J. Oktay: Changed Condition 2 on Permits C002121, C002126, C002127, C002387, C002641, and C003370; Pages affected III-30 through III-39; Rule 442 Citation Changes, Pages affected II-11 through II-12; Rule 1113 Citation Changes, Pages affected II-14 through II-15; added Rule SIP History Reference, Page VI-56 through VI-57. Added Mr. Tim Cotner as the Responsible Official instead of Stephen Gross who has been designated as Alternate Responsible Official; page I-4. Added Compliance Assurance Monitoring Plan (CAM) and calculations; pages VII-60 through VII-65.

March 28, 2011 Administrative Change

Updated facility contact, addition of applicable federal requirements, and clarification of recordkeeping elements - no change to emissions or existing limits.

December 16, 2010 Renewal of Title V Permit:

Update and renew Title V permit after concurrent 30 public notice and 45 day EPA review periods, effective reissue date November 16, 2010; delayed due to EPA Comments and results of EPA audit; see above for actual renewal date.

July 20, 2010 Administrative Change, adding a temporary carbon sequestration system as permit number C010900. This administrative change has been made pursuant to 40 CFR 70.7(d)(3)(i).

December 17, 2009 Administrative Change, add additional carbon monoxide limit to existing permit B002120 - no change to emissions or existing limits.

May 23, 2007 Administrative Change, update Responsible Official and facility contact.

November 16, 2005 Re-issuance, for new 5-year permit term.

February 6, 2003 Minor Permit Modification, Part I: added two baghouses to equipment description. Part III: revised existing conditions for steam generating boiler to reflect format changes and update allowed solid fuel list. Added conditions for new baghouses.

August 15, 2001 Administrative Change, Part I: updated responsible official and facility contacts.
Part II – Applicable Requirements and Emissions Limitations: corrected reference to fugitive dust rule 403.1 in condition 15.

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PART I INTRODUCTORY INFORMATION

A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: ACE Cogeneration Company, a California Limited Partnership

Owner Mailing Address: 12801 S. Mariposa Street, Trona, CA 93562

Facility Name: ACE Cogeneration Company

Facility Location/Mailing Address: 12801 S. Mariposa Street, Trona, CA 93562

MDAQMD Federal Operating Permit Number: 50001051

MDAQMD Company Number: 5000

MDAQMD Facility Number: 01051

Responsible Official: Mr. Gregory Schain

Title: Principal

Phone Number: 818-495-6515

Alternate Responsible Official: NA

Title: NA

Phone Number: NA

Facility "Site" Contacts: Mr. Nathan Britt

Title: Maintenance Supervisor

Phone Number: 760-977-7598

Nature of Business: Electric Power and Steam Cogeneration

SIC Code: 4911 / 110 -- Electric Power and Steam Cogeneration

Facility Location: UTM (Km) 465E / 3957N

B. EQUIPMENT DESCRIPTION:

1. MDAQMD permit # B002120 – BOILER, STEAM GENERATING
2. MDAQMD Permit # B002122 - COOLING TOWER
3. MDAQMD Permit # B002128 - LIMESTONE HANDLING SYSTEM
4. MDAQMD Permit # B002131 - ASH HANDLING SYSTEM
5. MDAQMD Permit # B003255 - SOLID FUEL RECLAIM SYSTEM
6. MDAQMD Permit # B005120 - SOLID FUEL HANDLING SYSTEM
7. MDAQMD Permit # C002121 - BAGHOUSE (STEAM GENERATION BOILER)
8. MDAQMD Permit # C002126 - BAGHOUSE (JUNCTION HOUSE 14-SOLID FUEL RECLAIM SYSTEM (B003255))
9. MDAQMD Permit # C002127 - BAGHOUSE (SOLID FUEL SILOS AND RECLAIM SYSTEM)
10. MDAQMD Permit # C002129 - BAGHOUSE (LIMESTONE TRUCK UNLOADING AND CRUSHING-LIMESTONE HANDLING SYSTEM (B002128))
11. MDAQMD Permit # C002387 - BAGHOUSE & CYCLONE
12. MDAQMD Permit # C002641 - BAGHOUSE
13. **INACTIVATED: ~~MDAQMD Permit # C003299 – BAGHOUSE~~**
14. **INACTIVATED: ~~MDAQMD Permit # C003300 – BAGHOUSE~~**
15. **INACTIVATED: ~~MDAQMD Permit # C003301 – BAGHOUSE~~**
16. MDAQMD Permit # C003370 - BAGHOUSE AND CYCLONE (FLY ASH HANDLING)
17. MDAQMD Permit # C005121 - BAGHOUSE (TRUCK DUMP)
18. MDAQMD Permit # C007862 - BAGHOUSE (STORAGE BIN)
19. MDAQMD Permit # C007863 - BAGHOUSE (SILO DISCHARGE CONVEYOR)
20. MDAQMD Permit # C008206 - BAGHOUSE (TRUCK DUMP)

21. MDAQMD Permit # C008207 - BAGHOUSE
22. **INACTIVATED: MDAQMD Permit # C010900 - CARBON SEQUESTRATION SYSTEM, TEMPORARY**
23. MDAQMD Permit # E003368 - DIESEL IC ENGINE, EMERGENCY FIRE PUMP
24. **INACTIVATED: MDAQMD Permit # E003369 - DIESEL IC ENGINE, EMERGENCY GENERATOR**
25. **INACTIVATED: MDAQMD Permit # E011451 - DIESEL IC ENGINE, EMERGENCY GENERATOR**
26. MDAQMD Permit # T007861 - STORAGE BIN, SOLID FUEL

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*; 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]
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 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 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. [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, is 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 403.2 unless an “Alternative PM₁₀ Control Plan” (ACP) pursuant to Rule 403.2(G) has been approved.
[Rule 403.2 - Fugitive Dust Control for the Mojave Desert 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 (SO₂), 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 (CO₂) at standard conditions averaged over a minimum of 25 consecutive minutes.

[Rule 409 - Combustion Contaminants]

23. 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 APCO. [Rule 430 - Breakdown Provisions]
24. Owner/Operator of this facility 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 by at least 85% or to the following:
- (a) Organic materials that come into contact with flame or are baked, heat cured, or heat polymerized are limited to 1.4 kilograms (3.1 pounds) per hour not to exceed 6.5 kilograms (14.3 pounds) per day.
 - (b) Organic materials emitted into the atmosphere from the use of photo-chemically reactive solvents are limited to 3.6 kilograms (7.9 pounds) per hour, not to exceed 18 kilograms (39.6 pounds) per day, except as provided in Rule 442, subsection (a)(1). All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
 - (c) Organic materials emitted into the atmosphere from the use of non-photo-chemically reactive solvents are limited to 36.8 kilograms (81 pounds) per hour not to exceed 272 kilograms (600 pounds) per day. All organic materials emitted for a drying period of 12 hours following their application shall be included in this limit.
 - (d) The provisions of this condition shall not apply to the manufacture of organic solvents, or the transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
 - (e) The provisions of this rule 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 use of equipment for which other requirements are specified by Rules 461, 462, 463, and 464 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 water reducible materials, provided that:
 - (a) the volatile content of such material is not photo-chemically reactive and consists of at least 80 percent water by volume, and
 - (b) the organic solvent or any material containing organic solvent does not come into contact with flame.
 - (5) The use of high solid materials, provided that:
 - (a) the volatile content of such material is not photochemically reactive and does not exceed 20 percent by volume of said material, and
 - (b) more than 50 percent by volume of such volatile material is evaporated before entering a chamber heated above ambient application temperature, and
 - (c) the organic solvent or any material containing organic solvent does not come into contact with flame.
 - (6) The use of ultra high solid materials, provided that:
 - (a) the volatile content of such material is not photo-chemically reactive and does not exceed 5 percent by volume of said material, and
 - (b) the organic solvent or any material containing organic solvent does not come into contact with flame.
 - (7) 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.
 - (8) The use of 1-1-1 Trichloroethane.
- [Rule 442 – Usage of Solvents]

25. 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]

26. 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) Cold Solvent Degreasers - Freeboard Requirements:
- (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 50°C (120°F) 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.
 - (iii) 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 carry-out 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 either 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]

27. 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, Table of Standards, as listed below:

MDAQMD Rule 1113, Table 1

Coating Category	Effective 1 January 2013 VOC Grams/Liter
Primary Coatings	
Flat Coatings	50
Nonflat Coatings	100
Nonflat-High Gloss Coatings	150
Specialty Coatings	
Aluminum Roof Coatings	400
Basement Specialty Coatings	400
Bituminous Roof Coatings	50
Bituminous Roof Primers	350
Bond Breakers	350
Concrete Curing Compounds	350
Concrete/Masonry Sealers	100
Driveway Sealers	50
Dry Fog Coatings	150
Faux Finish Coatings	350
Fire Resistant Coatings	350
Floor Coatings	100
Form-Release Compounds	250
Graphic Arts Coatings (Sign Paints)	500
High Temperature Coatings	420
Industrial Maintenance Coatings	250
Low Solids Coatings	120 ^a
<small>(a: Limit is expressed as VOC Actual)</small>	
Magnesite Cement Coatings	450
Mastic Texture Coatings	100
Metallic Pigmented Coatings	500
Multi-Color Coatings	250
Pre-Treatment Wash Primers	420
Primers, Sealers, and Undercoaters	100
Reactive Penetrating Sealers	350
Recycled Coatings	250
Roof Coatings	50
Rust Penetrative Coatings	250
Shellacs:	
Clear	730
Opaque	550

Specialty Primers, Sealers, and Undercoaters	100
Stains	250
Stone Consolidants	450
Swimming Pool Coatings	340
Traffic Marking Coatings	100
Tub and Tile Refinish Coatings	420
Waterproofing Membranes	250
Wood Coatings	275
Wood Preservatives	350
Zinc-Rich Primers	340
[Rule 1113]	

28. 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:

(b) **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)

(c) **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]

29. 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)

<u>Coating</u>	<u>Air Dried</u>		<u>Baked</u>	
	g/L	(lb/gal)	g/L	(lb/gal)
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]				

30. Owner/Operator shall comply with all requirements of the District's Title V Program, MDAQMD Rules 1200 through 1210 (Regulation XII - *Federal Operating Permits*). [Applicable via Title V Program interim approval 02/05/96 61 FR 4217]
31. Maintenance, service, repair or disposal of equipment containing ozone depleting compounds as defined in Appendix A and Appendix B to Subpart A of 40 CFR Part 82 shall be performed by persons certificated by a technician certification program approved pursuant to 40 CFR Part 82. [40 CFR Part 82]
32. If the facility becomes subject to 40 CFR Part 68 (Risk Management Plan (RMP)) and/or 10 CCR §2735 et al. (California Accidental Release Program - CalARP), then the

owner/operator shall submit and maintain a Risk Management Plan as required in the specified regulations. [40 CFR Part 68]

33. If the facility becomes subject to Title IV of the Clean Air Act, then the owner/operator shall request a modification to the Title V permit and prepare and submit the Title IV application forms. [Rule 1203(D)]
34. 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 Submittal Pending: Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*; as adopted 2/28/2011, Submitted 3/24/2011.]

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]
- 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) On an *annual* basis, of any given year, Owner/Operator shall submit a *Compliance Certification Report*, within 30 days of the anniversary of the date of the issuance or renewal of the Federal Operating Permit, to the APCO/District pursuant to District Rule 1203. 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 APCO/District. Each *Monitoring Report* shall cover the periods from May 16 to November 15 and from November 16 to May 15, and be postmarked by the 30 day of the end of the reporting period. 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:
- 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)]

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 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 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]

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

- A. **EQUIPMENT DESCRIPTION:** MDAQMD permit # B002120; BOILER, STEAM GENERATING, - Manufactured by Pyropower Corp., a circulating fluidized bed combustion boiler with two integral hot cyclones and a single convection pass, non-reheat, with nominal heat input of 1,052 MMBtu/hr and a steam output of 910,000 lb/hr at 1525 psig and 1005° F. The boiler has ammonia injection, limestone feed and the following equipment (note that horsepower has been converted to MMBtu assuming 2550 Btu/hp-hr):

<u>Capacity</u>	<u>Equipment Description</u>
7.7	Fan, Primary Air - one 1800RPM/4000V/3Ph/60Hz (3000 hp)
2.3	Fan, Secondary Air - one 1800RPM/4000V/3Ph/60Hz (900 hp)
6.4	Fan, Induced Draft - one 900RPM/4000V/3Ph/60Hz (2500 hp)
1.0	Blowers, High Pressure - 2 @ 200 hp ea, 3550RPM/460V/3Ph/60Hz (400 hp)
0.0	Silos, Solid Fuel Storage - 2 @ 360 tons ea
0.0	Feeders, Solid Fuel Gravimetric - 4 @ 1.5 hp ea (6 hp)
0.0	Feeders, Cleanout Drag Chain - 4 @ .5 hp ea (2 hp)
0.0	Conveyors, Inclined Drag Chain - 2 @ 7.5 hp ea (15 hp)
0.0	Conveyors, Horizontal Drag Chain - 2 @ 7.5 hp ea (15 hp)
0.0	Conveyors, Bi-directional Screw - 2 @ 3 hp ea (6 hp)
0.1	Fans, Feeder Pressurization - 2 @ 25 hp ea (50 hp)
0.3	Blower, Flyash Reinjection - one 1800RPM/460V/3 Ph/60Hz (100 hp)
0.0	Silo, Limestone Storage - one 360 tons
0.0	Limestone Feed System for SO _x control, includes the following:
0.0	Feeders, Gravimetric - DC, 2 @ 1 hp ea (2 hp)
0.4	Blowers, High Pressure - 2 @ 75 hp ea, 460V/3Ph/60Hz (150 hp)
0.0	Feeders, Rotary - 2 @ 1 hp ea, 10RPM/460V/3Ph/60Hz (2 hp)
0.0	Ammonia Injection System for NO _x control, includes the following:
0.0	Tank, Ammonia Storage - one 12,100 gallon w/two 100% vaporizers and injection system
0.0	Pumps, Boiler Feed - 2200 GPM & 5054' head and manufactured by Sulzer Bingham
17.9	Westinghouse motors - 2 @ 3,500 hp ea (7000 hp)
<u>1052.0</u>	<u>Pyropower Fluidized Bed Boiler (1052 MMBtu/hr)</u>
1088.0	Total

1. The circulating fluidized bed combustion boiler shall be authorized to burn solid fuel (coal, petroleum coke and/or coal with binder Covol 298-1 (not more than 2% Covol 298-1 by weight) and/or natural gas as fuel. The following emissions limits shall not be exceeded at any firing rate, except for CO, NO_x and SO_x during period of startup, shutdown and stabilization (see Condition 2):

- a) Opacity – 20% Opacity (6-minute average, except for one 6-minute average of no more than 27% opacity) (verified by COMS) [40 CFR 60.42 Da(b)]
- b) Ammonia – 310 lb/day (verified by CEMS on a three-hour rolling average, computed every 15 minutes)
- c) CO – 280 lb/hr and 316 ppmvd at 3% oxygen (verified by CEMS on a three-hour rolling average, computed every 15 minutes)
- d) NO_x (as NO₂) – 104 lb/hr (verified by CEMS on a three hour rolling average, computed every 15 minutes)
- e) NO_x - 210 ng/J (0.5 lb/MMBtu heat input) (verified by CEMS on a thirty day rolling average) [40 CFR 60.44Da(a)]
- f) SO_x (as SO₂) – 83 lb/hr (verified by CEMS on a three hour rolling average, computed every 15 minutes)
- g) SO_x - 520 ng/J (1.20 lb/MMBtu heat input) and 10 percent of the potential exhaust concentration or 30 percent of the potential combustion concentration when emissions are less than 260 ng/J (0.60 lb/MMBtu heat input) (verified by annual compliance test) [40 CFR 60.43Da(a)]
- h) ROG – 5 lb/hr (verified by annual compliance test)
- i) PM – 14.6 lb/hr and 13 ng/J (0.03 lb/MMBtu heat input) (verified by annual compliance test) [40 CFR 60.42Da(a)(1)]
- j) PM₁₀ – 14.6 lb/hr (verified by annual compliance test)
- k) Sulfates – 3.7 lb/hr (verified by annual compliance test) [40 CFR 60.42Da(b), Rule 1302(C)(2)(a)]

2. Emissions of CO, NO_x and SO_x may exceed the limits contained in Condition 1 during startup, shutdown, and stabilization periods within the limits of this condition.

a. The startup, shutdown and stabilization periods for NO_x and SO_x are defined as follows:

(1). Startup is when the boiler is being fired, in whole or in part, with natural gas for the purpose of introducing solid fuel.

(2). A shutdown is when natural gas is introduced to the boiler to bring the unit off line in a controlled fashion.

(3). Stabilization is:

A) During start-up, the period from when the natural gas is taken out of service and power output on solid fuel is increasing until the boiler is up to a stable operating range and generating more than 40 MW(e) net;

B) During shutdown the period starting when the natural gas is placed in service to bring the unit off line in a controlled fashion.

a. The startup, shutdown and stabilization periods for CO are defined as those periods when the boiler is being fired, in whole or in part, with natural gas.

b. During periods of startup, shutdown and stabilization the emissions of CO, NO_x and SO_x shall not exceed the following based on a 3 hour rolling average:

(1). CO – 2,000 lb/hr but not for any period longer than 12 hours.

(2). NO_x and SO_x – 200 lb/hr of each but not for any period longer than 4 hours.

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

3. The total annual emissions, including the excess emissions allowed in Condition 2, for CO, NO_x and SO_x when calculated on a 52 week rolling annual average shall not exceed the

following:

CO – 1226 tons/year

NO_x – 456 tons/year

SO_x – 364 tons/year

Compliance with this emission limit shall be determined by using the CEMS data and a week is defined as beginning at 0001 hours Monday and ending at 2400 hours Sunday.

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

4. When the emission limits of Condition 2 are to be applied, the District is to be informed by phone prior to or as soon as practicable after the subject period occurs. ACE Cogeneration Co (o/o) shall report to the District in the quarterly report (Condition No. 10) when a startup, shutdown or stabilization period occurred and the actual emissions recorded during that period. [Rule 204]

5. The daily emission of the following pollutants CO, NO_x (as NO₂), SO_x (as SO₂) and Ammonia as well as O₂ (a diluent gas) shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rated Monitoring System (CERMS). The stack gas opacity shall be monitored using a Continuous Opacity Monitoring System (COMS). These systems shall be operating at all times in accordance with the District approved monitoring plan. [Rule 204]

6. 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 NO_x CEMS – Performance Specification 2 of 40 CFR 60 Appendix B.
- c. For O₂ 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 Ammonia CEMS – Acceptability testing to be performed per a District approved procedure that is to be submitted by the o/o. [40 CFR 60 Appendix B]

7. All of the following baghouses shall be functional and operating under all conditions (start-ups, stabilization periods and shutdowns) and firing rates:

- a. C002121 – Steam Generation Baghouse
- b. C002127 – Solid Fuel Silos Baghouse
- c. C002387 – Bottom Ash Handling System Baghouse
- d. C002641 – Limestone Storage Silo Baghouse (Bin Vent)
- e. C003370 – Fly Ash Handling System Baghouse [Rule 1302(C)(2)(a)]

8. Annual compliance tests must be performed on this boiler and the baghouse covered by District permit C002121 in accordance with the District Compliance Test Procedural Manual. The test report shall be submitted to the District within 60 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 (NO_x as NO₂ in ppmv at 3% O₂, dry basis and lb/hr)
- b. Reactive Organic Gases (ROG) (in ppmv at 3% O₂, dry basis and lb/hr)
- c. Oxides of sulfur (SO_x 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)
- g. Ammonia (in ppmv at 3% O₂, dry basis and lb/day) [Rule 204]

9. The o/o shall record monthly the sulfur content of the solid fuel. The solid fuel samples can either be composited “on delivery” or “as fired.” To satisfy the “as delivered” condition the o/o may use vendor analyses. Such records shall be maintained for a period of at least five (5) years and made available to District personnel on request. This boiler shall be fired only with solid fuel where the percentage of sulfur by weight does not exceed 4.0%. Natural gas may be fired during startup, shutdown and for stabilization and as an alternative fuel source at any time. [Rule 204]

10. 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:

- a. CEMS data (24-hour block averages, daily average, of NO_x (lbs/hr), SO_x (lbs/hr as SO₂), CO (lbs/hr) and CO (ppmvd at 3% oxygen)
 - b. CERMS data (24-hour block average, daily average, of stack exhaust flow (lbs/hr)
 - c. COMS data (24-hour block average, daily average, of opacity (%))
- All quarterly reports shall be postmarked by the 30th day following the end of each calendar quarter. [Rule 204]

11. The o/o may use coal and natural gas as primary fuels but petroleum coke shall not be used as a solid fuel until the storage facility, conveyors and baghouse covered by District permits B005120 and C005121 are constructed and operational. [Rule 1303(A) BACT]

12. The District shall be notified in writing:

- a. When the construction of the petroleum coke storage facility with conveyors and baghouse is started.
- b. When the construction of the petroleum coke storage facility with conveyors and baghouse is completed. [Rule 204]

13. This unit is subject to Clean Air Mercury Rule (CAMR) - 40 CFR 60 Subpart HHHH. Beginning in 2009, this equipment is subject to mercury emission monitoring and reporting requirements (in the form of annual mercury testing per 40 CFR 75.81, and reporting per 40 CFR 60.4170 through 4176).

14. THIS FACILITY IS SUBJECT TO 40 CFR 63 SUBPART UUUUU WHICH WILL BECOME EFFECTIVE APRIL 16, 2015. TO PREPARE FOR THE APPLICABLE REQUIREMENTS, CONDITIONS 15 THROUGH 29 HAVE BEEN ADDED TO THIS PERMIT. IF EQUIPMENT CHANGES ARE REQUIRED, THE O/O SHALL SUBMIT ALL REQUIRED APPLICATIONS INCLUDING TITLE V REVISION FORMS ALLOWING AMPLE TIME FOR THE DISTRICT TO PROCESS ANY REQUIRED CHANGES IN ANTICIPATION OF THE APRIL 16, 2015 EFFECTIVE DATE.

15. At all times the Owner/Operator (O/O) must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to District, State, and/or Federal Personnel, which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.
[Origin: 40 CFR 63.10000(b)] [40 CFR 63 Subpart UUUUU]

16. Regarding Subpart UUUUU Monitoring Requirements; Records required for this permit condition will serve as monitoring. [40 CFR 63 Subpart UUUUU]

17. Regarding Subpart UUUUU Recordkeeping requirements: The O/O shall keep the records described in 40 CFR 63.10032(a) through (j), as applicable. The owner/operator shall document activities performed to assure proper operation and maintenance. Records shall be maintained in accordance with 40 CFR 63.10033 and applicable conditions of this permit.

18. The O/O shall comply with the following requirements for each affected emission unit:

a. The O/O shall comply with each emission limit and work practice standard in 40 CFR 63 Subpart UUUUU Tables 2 and 3 of 40 CFR 63 Subpart UUUUU for each EGU at the source;

b. The O/O shall comply with each operating limit in Table 4 of 40 CFR 63 Subpart UUUUU for each affected EGU at the source;

c. The O/O shall comply with the emission and operating limits at all times except during periods of startup and shutdown. The O/O shall meet the work practice in Table 3 of 40 CFR 63 Subpart UUUUU during periods of startup, or shutdown;

d. The O/O may use emissions averaging as described in 40 CFR 63.10009 as an alternative to meeting the requirements in (1)(a) of this section for filterable PM, SO₂, HF, HCl, non-Hg HAP metals, or Hg on an EGU-specific basis.

19. As provided in 40 CFR 63.6(g), the Administrator may approve use of an alternative to the work practice standards in this section;

20. The o/o may use the alternate SO₂ limit in Table 2 of 40 CFR 63 Subpart UUUUU only if the affected coal-fired EGU:

a. Has a system using wet or dry flue gas desulfurization technology and SO₂ CEM installed on the unit; and,

b. At all times, the o/o operates the wet and dry flue gas desulfurization technology installed on the unit consistent with 40 CFR 63.10000(b) [Origin: 40 CFR 63.9991, 63.10000(a), 63.10009, tables 2, 3, and 4; 40 CFR 63 Subpart UUUUU]

21. Monitoring; General Compliance Requirement:

a. The o/o shall conduct the initial performance testing for all pollutants in accordance with 40 CFR 63.10000(c)(1)(i) through (vi), as applicable, to demonstrate compliance with the applicable emission limits.

b. If a continuous monitoring system (CMS) is used to demonstrate compliance with any applicable emission limit, the o/o shall develop a site-specific monitoring plan for the CMS in accordance to 40 CFR 63.10000(d)(1) through (5) and submit this site-specific monitoring plan, if requested, at least 60 days before the initial performance evaluation (where applicable) of CMS. The o/o shall operate and maintain the CMS according to the site-specific monitoring plan.

c. The o/o shall perform periodic tune-up of EGU in accordance with 40 CFR 63.10021(e).

22. Testing Requirements: Compliance Performance test shall be conducted according to the procedures described in 40 CFR 63.10005 for the initial compliance and according to the procedures described in 43 CFR 63.10006 for continuous compliance. The o/o shall conduct all required performance tests according to 40 CFR 63.10007.

23. Continuous Compliance: The o/o shall monitor and collect data according to 43 CFR 63.10020(b) through (d) and the site-specific monitoring plan required by 40 CFR 63.10000(d).

a. The o/o shall monitor and collect data according 43 CFR 63.10020(b) through (d) and the site-specific monitoring plan required by 40 CFR 63.10000(d).

b. The o/o shall demonstrate continuous compliance with each emissions limit, operating limit, and work practice standards applicable in Tables 2 through 4 to the subpart UUUUU of 40 CFR 63 that, according the monitoring specified in Tables 6 and 7 to subpart UUUUU of 40 CFR 63, and paragraphs 40 CFR 63.10021 (b) through (g).

c. The o/o shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 9 of 40 CFR 63 Subpart UUUUU. [40 CFR 63.10040]

24. Recordkeeping: The o/o shall keep the records described in 40 CFR 63.10032(a) through (j), as applicable. [40 CFR 63.10032] The o/o shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 9 of 40 CFR 63 Subpart UUUUU. [40 CFR 63.10040]. Records shall be maintained in accordance with 40 CFR 63.10033 and applicable conditions of this permit.

25. Reporting: The o/o shall submit an Initial Notification described in 40 CFR 63.10030 (b) and (c), as applicable.

a. The o/o shall submit a Notification of Compliance Status summarizing the results of the initial compliance demonstration according to 40 CFR 63.9(h)(2)(ii). The Notification of Compliance Status report must contain all the information specified in 40 CFR 63.10030(e)(1) through (7), as applicable.

b. The o/o shall submit the compliance report as required in 40 CFR 63.10031.

c. The compliance report shall contain the requirements as described in 40 CFR 63.10031(c)(1) through (4) and Table 8 of 40 CFR 63 Subpart UUUUU semiannually according to the requirements in 40 CFR 63.10031(b).

d. The o/o shall comply with the applicable general provisions in 40 CFR 63.1-15 as identified in Table 9 of 40 CFR 63 Subpart UUUUU. [40 CFR 63.10040]

B. MDAQMD Permit # B002122 - COOLING TOWER, consisting of: a Hamon Model No. CF 4248 four cell wooden cooling tower with 12,000 square feet of cooling area and appurtenant water system.

1. All equipment shall be maintained and operated in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles. [Rule 1302(C)(2)(a)]

2. Owner/Operator shall comply with District Rule 1503 relative to the Hexavalent Chromium Emissions from Cooling Towers and shall not operate a cooling tower unless hexavalent chromium containing water treatment chemicals are not added to cooling tower circulating water. The concentration of hexavalent chromium in the circulating water of a non-wooden cooling tower shall not exceed 0.15 milligram per liter (mg/L) and shall be tested every six months. Records shall be retained for five years and made available, upon request, to the Air Pollution Control Officer or representative. Records shall contain, but are not limited to, the information as required by paragraph (D) of District Rule 1503. The operator shall maintain records' regarding all cooling towers in one location, with current originals or copies at this facility site. [Rule 1503 - Chromium Emissions From Cooling Towers]

3. The drift rate shall not exceed 0.0015 percent with a maximum circulation rate of 64,000 GPM. The maximum PM and PM₁₀ emission rates shall not exceed 15 and 13 lb/hr respectively. [Rule 1303(A) BACT]

4. Weekly tests of the blowdown water quality shall be performed by o/o in accordance with the standard test procedures. These weekly recordings, including mass emission rate, are to be placed into a log and be maintained on sites for a minimum of five (5) years and be provided to District, state or federal personnel on request. [Rule 1303(A)]
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. [Rule 204 - Permit Conditions]
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 on request. [Rule 204 - Permit Conditions]

C. MDAQMD Permit # B002128 - LIMESTONE HANDLING SYSTEM, consisting of:

<u>Capacity</u>	<u>Equipment Description</u>
250.0	two (2) blowers @ 125 hp each
0.0	Pneumatic Conveying System -
2.0	Fluidizing Air Blower
1.5	Rotary Feeder
200.0	Crusher - 25 ton/hr capacity
7.5	Conveyor, Bucket Elevator-belt
3.0	Vibrating Feeder
<u>0.0</u>	<u>Hopper, Truck Unload - 1270 ft3 capacity</u>
464.0	Total

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002129 and C002641. [Rule 1303(A) BACT]
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. [Rule 204 - Permit Conditions]

D. MDAQMD Permit # B002131 - ASH HANDLING SYSTEM, consisting of:

<u>Capacity</u>	<u>Equipment Description</u>
0.0	Silo, Bottom Ash System - 90 ton capacity (with bin vent)
20.0	conveyors @ 5 hp each
0.0	Bottom Ash Discharge System - four (4) screw
100.0	Pneumatic Transport System - flyash re-injection
25.0	45 ton cap Fluidizing air blower
0.0	Silo, Ash re-injection System (with bin vent)
25.0	Fluidizing air blower
0.0	Silo, Fly Ash System - 600 ton capacity (with bin vent)
400.0	two (2) 200 hp blowers

0.0	baghouses and air pre-heater to flyash reinjection and ash storage silos
<u>0.0</u>	<u>Pneumatic Ash Transfer System</u>
570.0	Total

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

2. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002387, and C003370. [Rule 1303(A) BACT] [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

3. This equipment shall not discharge into the atmosphere an exhaust stream that exhibits greater than twenty percent opacity from any discharge point (including each bin vent stack). [Rule 401 - Visible Emissions] [40 CFR 70.6 (a)(3)(i)(B) - Periodic Monitoring Requirements]

4. The o/o shall maintain on-site a minimum inventory of replacement bin vent bags, filters and/or cartridges that assures compliance with these conditions. [Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. The o/o shall conduct a minimum program of inspection and maintenance on the bin vents serving 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 personnel upon request:

- a. Monthly bin vent stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bin vent bag/filter/cartridge and suspension system inspection date and results;
- c. Date of bin vent bag/filter/cartridge replacements; and,
- d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

E. MDAQMD Permit # B003255 - SOLID FUEL RECLAIM SYSTEM, consisting of:

<u>Capacity</u>	<u>Equipment Description</u>
0.0	Silo No. 1, Solid Fuel - 360 ton capacity
0.0	Silo No. 2, Solid Fuel - 360 ton capacity
15.0	Conveyor, C-17B
10.0	Conveyor, C-17A
60.0	Conveyor, C-16
0.0	Junction House 14
<u>40.0</u>	<u>Conveyor, C-15</u>
125.0	Total

1. This equipment shall not be operated unless it is vented to the functioning air pollution control equipment covered by valid District permits C002126 and C002127.[Rule 1303(A) BACT]

2. All equipment shall be maintained and operated at all times in strict accord with recommendations of the manufacturer/supplier and/or sound engineering principles.
[Rule 1302(C)(2)(a)]

3. All conveyor systems shall be fully enclosed. Water spray systems, which are activated by conveyor motion, shall be provided at all transfer points except at those controlled by baghouses.
[Rule 1303(A) BACT]

F. MDAQMD Permit # B005120 - SOLID FUEL HANDLING SYSTEM, consisting of:

<u>Capacity</u>	<u>Equipment Description</u>
0.0	Truck Dump Station
0.0	Receiving Hopper (12' by 13')
25.0	Truck Dump Discharge Conveyor (36" x 12')
40.0	Silo Feed Conveyor (30" x 279')
<u>25.0</u>	<u>Silo Discharge Conveyor (30" x 191')</u>
90.0	Total

1. The installation and 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. [Rule 204 - Permit Conditions]

2. Solid fuel shall not be discharged inside the Truck Dump Station unless the truck bottom dump is enclosed by the building and plastic slats, which is vented to the functioning air pollution control equipment covered by valid District permit C005121 & C008206. [Rule 1303(A) BACT]

3. This equipment shall only be operated and maintained in strict accord with manufacturers and/or supplier's recommendations and/or sound engineering principles. [Rule 1302(C)(2)(a)]

4. The Silo Discharge Conveyor shall not be operated unless its discharge drop is vented to the functioning air pollution control equipment covered by valid District permit C007863.
[Rule 1303(A) BACT]

5. The Truck Dump Discharge Conveyor shall no be operated unless its discharge drop is vented to the functioning air pollution control equipment covered by valid District permit C008207.
[Rule 1303(A) BACT]

G. MDAQMD Permit # C002121 - BAGHOUSE (STEAM GENERATION BOILER) consisting of: Brandt Environmental Corp, Model Type I, with 10 compartments, each with 252 12" D by 33' L fiberglass bags. With 8 compartments operating, gas flow is 420,400 ACFM @ 500 degrees F (for an air to cloth ratio of 2:1). Equipped with 150 hp reverse air-fan. Pressure differential setpoint for cleaning interval is 6" water column.

1. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;
 - c. Date of bag replacements; and,
 - d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, State or Federal personnel on request. [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

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

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with the Steam Generating Boiler under valid District permit number B002120. [Rule 1303(A) BACT]

6. The o/o shall conduct annual emissions tests on this unit in strict accord with all procedures described in the District's Compliance Test Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions of the Steam Generating Boiler, District permit B002120. The test report of emissions shall be forwarded to the District no later than 60 days subsequent to the final day of on-site sampling and measurement. [Rule 1302(C)(2)(a)]

H. MDAQMD Permit # C002126 - BAGHOUSE (JUNCTION HOUSE 14-SOLID FUEL RECLAIM SYSTEM (B003255)) consisting of:

Capacity	Equipment Description
0.0	Silo No. 1, Solid Fuel - 360 ton capacity
0.0	Silo No. 2, Solid Fuel - 360 ton capacity
15.0	Conveyor, C-17B
10.0	Conveyor, C-17A
60.0	Conveyor, C-16
0.0	Junction House 14
<u>40.0</u>	<u>Conveyor, C-15</u>
125.0	Total

1. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements; and,
- d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall log all the items in Condition 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request.

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

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

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with Junction House 14 of Solid Fuel Reclaim System under valid District permit number B003255. [Rule 1303(A) BACT]

I. MDAQMD Permit # C002127 - BAGHOUSE (SOLID FUEL SILOS AND RECLAIM SYSTEM) consisting of: a McNally Systems Model N Sonair Jet 1015-150-2355 baghouse with 2355 square feet of cloth area, a one hp rotary valve and a 40 hp fan generating a flow of 12,000 acfm at 250 degrees Fahrenheit (for an air to cloth ratio of 5.09:1). This unit serves the solid fuel reclaim system (B003255).

1. The owner/operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements; and,
- d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall log all the items in Condition 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request. [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

4. 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.
[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with Solid Fuel Reclaim System under valid District permit number B003255. [Rule 1303(A) BACT]

J. MDAQMD Permit # C002129 - BAGHOUSE (LIMESTONE TRUCK UNLOADING AND CRUSHING-LIMESTONE HANDLING SYSTEM consisting of:

Flex-Kleen, model no 120-WMWC-660 (III), serial no. 10-95-31748 baghouse equipped with a 125 hp induced draft fan generating 42,000 acfm with an exhaust temperature of 70 deg F, 14,520 sq ft of spun bonded Polyester pulse pleat filters (2.9:1 air to cloth ratio), a 1.5 hp screw feeder and a 3/4 hp rotary feeder.

1. This baghouse shall operate concurrently with the equipment described as the Limestone Truck Unloading and Crushing and Limestone Handling System (B002128). [Rule 1303(A) BACT]

2. The owner/operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

4. 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.
[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204 - Permit Conditions]

6. This baghouse shall discharge no more than 1.08 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description.
[Rule 1303(A) BACT]

7. Within 180 days from the initial start-up of this unit, Owner/Operator shall conduct emissions testing in strict accord with all procedures described in the District's Compliance Test

Procedural Manual. This testing is necessary to demonstrate compliance with permit conditions in 6 above and District Rules 404 and 405. The District shall be notified no less than 10 working days prior to the test and receive the final test report of emissions no later than 60 days subsequent to the final day of on-site sampling and measurement. [Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

K. MDAQMD Permit # C002387 – BAGHOUSE & CYCLONE consisting of:
control for the Bottom Ash Handling System (B002131), a Flex-Kleen, model no 120-CTWC-71M78 (IIIG); serial no. E- 32582, 1193 sq ft cloth area; 3.2:1 air to cloth ratio; gas flow (at 400 degrees F maximum) of 3900 ACFM.

1. Owner/Operator shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
- b. Quarterly bag and bag suspension system inspection date and results;
- c. Date of bag replacements; and,
- d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall log all the items in Condition 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, state or federal personnel on request. [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

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

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with the Bottom Ash Handling System under valid District permit number B002131. [Rule 1303(A) BACT]

L. MDAQMD Permit # C002641 – BAGHOUSE consisting of:
Baghouse serving Limestone Storage Silo (B002120); a Flex Kleen, model no 100-WRBC-48(IIIG), serial no. 10-84-31749; 610 sq ft of cloth area; 4.48:1 air to cloth ratio; air flow of 2730 ACFM @70 degrees F.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;
 - c. Date of bag replacements; and,
 - d. Date and nature of any system repairs.[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall log all the items above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, State or Federal personnel on request. [40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV.
[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with Limestone Storage Silo under valid District permit number B002120. [Rule 1303(A) BACT]

M. ~~**INACTIVE:** MDAQMD Permit # C003299 – FLY ASH REINJECTION SILO BAGHOUSE:~~

N. ~~**INACTIVE:** MDAQMD Permit # C003300 – FLY ASH STORAGE SILO BAGHOUSE:~~

O. ~~**INACTIVE:** MDAQMD Permit # C003301 – BOTTOM ASH STORAGE SILO BAGHOUSE:~~

P. MDAQMD Permit # C003370 – BAGHOUSE AND CYCLONE (FLY ASH HANDLING) consisting of: a Flex-Kleen Model No. 120-CTWC-72M78 (IIIG), Serial No. E-32581 baghouse with 78 GE PulsePleat filter elements totaling 1723 square feet of filter area, operating at a gas flow of 3900 acfm at 400 degrees Fahrenheit (for an air to cloth ratio of 2.26:1). This unit serves the fly ash handling system.

1. The owner/operator (o/o) shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

2. 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. Weekly baghouse stack observation date and result (using USEPA Method 22, and USEPA Method 9 if necessary);
 - b. Quarterly bag and bag suspension system inspection date and results;

- c. Date of bag replacements; and,
- d. Date and nature of any system repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. Owner/Operator shall log all the items in Condition 2 above in addition to the bag replacements, repairs and non-scheduled maintenance. The log shall be kept current, on-site for a minimum of 5 years and provided to District, State or Federal personnel on request.

[40 CFR 70.6 (a)(3)(B) - Periodic Monitoring Requirements]

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

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. This baghouse shall operate concurrently with Fly Ash Handling System under valid District permit number B002131. [Rule 1303(A) BACT]

Q. MDAQMD Permit # C005121 – BAGHOUSE (TRUCK DUMP) consisting of: a Simatek Pit Filter Model JM 10/35 baghouse with 80 5.75" D by 11.5' L Goretex coated PE 4417 bags totaling 1,326 square feet of filter area and a 20 hp fan generating 17,000 acfm (for an air to cloth ratio of 12.8:1), serving the Truck Dump Station (B005120).

1. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120). [Rule 1303(A) BACT]

2. Owner/Operator shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

4. 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.

[Rule 404 - Particulate Matter Concentration] [Rule 405 - Solid Particulate Matter, Weight]

5. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204 - Permit Conditions]

6. This baghouse shall discharge no more than 0.44 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description. [Rule 1303(A) BACT]

R. MDAQMD Permit # C007862 - BAGHOUSE (STORAGE BIN) consisting of: a Sly TubeJet Model STJ-78-8 baghouse with 56 5 7/8" D by 8' L Teflon coated polyester bags totaling 672 square feet of filter area, equipped with a 5 hp fan generating 4000 acfm (for an air to cloth ratio of 6:1). Serving the Solid Fuel Storage Bin (T007861).

1. This baghouse shall operate concurrently with the equipment described as the Solid Fuel Storage Bin (T007861). [Rule 1303(A) BACT]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs. [Rule 404, Rule 405]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV. [Rule 404, Rule 405]

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204]

6. This baghouse shall discharge no more than 0.10 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description. [Rule 1303(A) BACT]

S. MDAQMD Permit # C007863 - BAGHOUSE (SILO DISCHARGE CONVEYOR) consisting of: a Sly TubeJet Model STJ-46-8 baghouse, equipped with 24 5 7/8" by 8' L Teflon coated polyester bags totaling 288 square feet of filter area and a 5 hp fan generating 4000 acfm (for an air to cloth ratio of 13.8:1). Serving the discharge end of the Silo Discharge Conveyor (B005120).

1. This baghouse shall operate concurrently with the equipment described as the Silo Discharge Conveyor (B005120). [Rule 1303(A) BACT]

2. Owner/Operator shall conduct a minimum program of inspection and maintenance

(frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). Owner/Operator shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District, state or federal personnel upon request:

- a. Pressure differential across the bags (weekly);
 - b. Baghouse stack visible emissions determination (monthly);
 - c. Bags and bag suspension system inspection (quarterly); and
 - d. Bag replacements and repairs. [Rule 404, Rule 405]
3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]
4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV. [Rule 404, Rule 405]
5. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204]
6. This baghouse shall discharge no more than 0.10 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description. [Rule 1303(A) BACT]

T. MDAQMD Permit Number E003368; DIESEL IC ENGINE, EMERGENCY FIRE PUMP consisting of: Year of Manufacture; 1988; Tier 0; a Cummins, Diesel fired internal combustion engine, Model No. NTA855F and Serial No. 11440677, producing 400 bhp with 12 cylinders at 2100 rpm while consuming a maximum of 20 gal/hr. This equipment powers a Fire Pump.

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, or as required by NESHAP Subpart ZZZZ as summarized below. 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 Subpart ZZZZ; Rule 1302(C)(2)(a)]
2. A non-resettable four-digit (9,999) hour meter or timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [17 CCR §93115.10(e)(1); 40 CFR 63 Subpart ZZZZ]
3. This unit shall only be fired on ultra-low sulfur diesel fuel, whose sulfur concentration is less than or equal to 0.0015% (15) on a weight per weight basis per CARB Diesel or equivalent requirements. [17 CCR §93115]
4. 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. Date of each use and duration of each use (in hours);
- b. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
- c. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log). [17 CCR §93115]

5. This unit shall be limited to use as an emergency fire pump, 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 0.5 hrs per day for a total of 20 hours per year for testing and maintenance. The 20 hour limit can be exceeded when the emergency fire pump assembly is driven directly by a stationary diesel fueled CI engine 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. This requirement includes usage during emergencies.

[Rule 1302(C)(2)(a)] [Rule 1304 (D)(1)(a)] [17 CCR 93115.3(n)] [Hours allowed by federal regulation 40 CFR 60.42(f) streamlined out as these permit requirements are more stringent than the federal regulatory requirements.]

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.) [17 CCR 93115] [40 CFR 70.6(a)(3)(ii)(B); Rule 1203(D)(1)(d)(ii)]

7. These engines may operate in response to fire suppression requirements needs. [17 CCR §93115; 40 CFR 63 Subpart ZZZZ]

8. This engine is subject to the requirements of NESHAP Subpart ZZZZ and as such the owner/operator shall comply with the following maintenance and operation schedule as summarized:

- a. Change oil and filter every 1,000 hours of operation or annually, whichever comes first
- 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
- 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, after which time the non-startup emission limitations apply. [40 CFR 63 Subpart ZZZZ]

9. This genset is subject to the requirements of the Airborne Toxic Control Measure

(ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115), and the NESHAPs subpart ZZZZ. In the event of conflict between these conditions and the ATCM, the more stringent requirements shall govern. [Rule 204 - Permit Conditions]

U. ~~**INACTIVE: MDAQMD Permit Number E003369; EMERGENCY ELECTRICAL POWER GENERATOR, DIESEL FIRED, CATERPILLAR ENGINE Model # 3208-175, 263 BHP @ 1800 rpm, Serial # 5YF00392.**~~

V. MDAQMD Permit # T007861; STORAGE BIN, SOLID FUEL consisting of: 300 ton fuel bin measuring 75' H x 20'. Capacity calculated at 300 gallons per ton, or 90,000 gallons.

1. The installation and 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. [Rule 204 - Permit Conditions]

2. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

3. This equipment shall not be operated unless it is vented to the properly functioning air pollution control equipment covered by valid District permit C007862. [Rule 1303(A) BACT]

W. MDAQMD Permit # C008206; BAGHOUSE (TRUCK DUMP), consisting of: a Sly TubeJet Model STJ-46-8 baghouse, equipped with 24 5 7/8" D by 89' L Teflon coated polyester bags totaling 277 square feet of filter area and a fan generating 17,000 acfm (for an air to cloth ratio of 61:1). Serving the Truck Dump Station (B005120) along with C005121.

1. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120). [Rule 1303(A) BACT]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs. [Rule 404, Rule 405]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV. [Rule 404, Rule 40]

5. Owner/Operator shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204]

6. This baghouse shall discharge no more than 0.44 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description. [Rule 1303(A) BACT]

X. MDAQMD Permit # C008207; BAGHOUSE, consisting of: Serving the discharge to conveyor belt of the Truck Dump Station (B005120), equipped with a 5 hp fan generating 4000 acfm. Baghouse manufacturer, bag material, number of bags, bag dimensions and total filter surface area will be specified by the applicant when determined.

1. This baghouse shall operate concurrently with the equipment described as the Truck Dump Station (B005120). [Rule 1303(A) BACT]

2. The owner/operator (o/o) shall conduct a minimum program of inspection and maintenance (frequencies may be changed upon successful demonstration to the District that less frequent monitoring is equally effective). The o/o shall maintain current and on-site for five (5) years a log of this information, which shall be provided to District personnel upon request:

- a. Pressure differential across the bags (weekly);
- b. Baghouse stack visible emissions determination (monthly);
- c. Bags and bag suspension system inspection (quarterly); and
- d. Bag replacements and repairs. [Rule 404, Rule 405]

3. The o/o shall install, operate and maintain this dust collector in strict accord with those recommendations of the manufacturer/supplier, and sound engineering principles, which produce minimum emissions of air contaminants. [Rule 1302(C)(2)(a)]

4. The o/o shall maintain an inventory of replacement bags on-site at all times which will ensure compliance with applicable Rules of District Regulation IV. [Rule 404, Rule 405]

5. The o/o shall install and maintain a device which measures the pressure differential across the bags if one has not been provided with this unit. [Rule 204]

6. This baghouse shall discharge no more than 0.1 lb/hour of particulate at a maximum concentration of 0.003 grain/dscf at the operating conditions given in the above description. [Rule 1303(A) BACT]

Y. ~~MDAQMD Permit # C010900 – CARBON SQUESTRATION SYSTEM, TEMPORARY, consisting of: A sodium hydroxide absorber pilot scale system processing 10 percent of the flue gas from the ACE coal fired boiler (B002120), exhausting through its own separate stack. This system is designed to convert gaseous carbon dioxide into carbonate and/or bicarbonate, and will use sodium hydroxide, ACE cooling tower blowdown water and/or Searles Lake brine as reagents.~~

~~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. [Rule 1302(C)(2)(a)]~~

~~2. The exhaust from this equipment, in combination with the exhaust from the primary exhaust stack for the steam boiler (B002120), shall comply with all emission limits and restrictions of B002120 while this equipment accepts flue gas from that boiler, verified by CEMS and weekly visibility determination in accordance with Federal Opacity Reference Method 22 (and 9 if necessary). [Rule 204]~~

~~3. The emissions of CO, NO_x (as NO₂), Ammonia and SO_x (as SO₂) as well as O₂ (a diluent gas) of this equipment shall be monitored using a Continuous Emissions Monitoring System (CEMS). The stack gas flow rate shall be monitored using a Continuous Emission Rate Monitoring System (CERMS). These systems shall be operating at all times in accordance with the District approved monitoring plan. [Rule 204]~~

~~4. The following are the acceptability testing requirements for the CEMS, CERMS and COMS:~~

~~a. For SO₂ and NO_x CEMS Performance Specification 2 of 40 CFR 60 Appendix B.~~

~~b. For O₂ CEMS Performance Specification 3 of 40 CFR 60 Appendix B.~~

~~c. For CO CEMS Performance Specification 4 of 40 CFR 60 Appendix B.~~

~~d. For CERMS (stack gas flow rate) Performance Specification 6 of 40 CFR 60 Appendix B. [Rule 204]~~

~~5. This unit is subject to Clean Air Mercury Rule (CAMR) 40 CFR 60 Subpart HHHH. Beginning in 2009, this equipment is subject to mercury emission monitoring and reporting requirements (in the form of annual mercury testing per 40 CFR 75.81, and reporting per 40 CFR 60.4170 through 4176).~~

~~6. Emissions and operations of this equipment shall be logged and reported as an element of the log and reports for the steam boiler (B002120), including explicit references to separate and cumulative emissions for those periods during which this equipment receives flue gas from the steam boiler. A separate log shall be maintained that includes the date and results of stack visibility observations. [Rule 204]~~

~~Z. MDAQMD Permit # E011451 - DIESEL IC ENGINE, EMERGENCY GENERATOR, consisting of: Year of Mfg. 2012, USEPA Tier 3, USEPA Engine Family Name CJDXL03.0113, One Cummins, Diesel fired internal combustion engine, Model No. QSB-G5-NR3 and Serial No. TBD, After Cooled, Direct Injected, Turbo Charged, producing 303 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 14 gal/hr. This equipment powers a Generator.~~

~~1. This certified, stationary, compression ignited, internal combustion engine 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. [40 CFR Part 60, Subpart III—NSPS for Stationary Compression Ignition ICE; Rule 1302(C)(2)(a); Version in SIP = CARB Ex. Order G-73, 40 CFR 52.220(e)(239)(i)(A)(1) 61 FR 58133; Current Rule Version = 08/26/06]~~

~~2.——A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time. [17 CCR 93115—Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines and 40 CFR Subpart III]~~

~~3.——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. [17 CCR 93115 and 40 CFR 80.510, Standards and Marker Requirements for NRLM diesel fuel]~~

~~4.——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. [17 CCR 93115] *District and State Only*~~

~~5.——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 20 hours per year for testing and maintenance, excluding compliance source testing. Time required for source testing will not be counted toward the 20 hour per year limit. [17 CCR 93115, 40 CFR Subpart III, District Regulation XIII]~~

~~6.——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. Date of each use and duration of each use (in hours per the nonresettable hour timer);~~
- ~~b. Reason for use (testing & maintenance, emergency, required emission testing);~~
- ~~c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; 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). [17 CCR 93115]~~

~~7.——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. [17 CCR 93115] *District and State Only*~~

~~8.——This genset is subject to the requirements of the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines (Title 17 CCR 93115) and Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (40 CFR Part 60, Subpart III). In the event of conflict between these conditions and the ATCM or NSPS, the more~~

~~stringent requirements shall govern.~~

~~[Rule 204 – Permit Conditions; Version in SIP = CARB Ex. Order G-73, 40 CFR
52.220(e)(39)(ii)(B) – 11/09/78 43 FR 52237; Current Rule Version = 07/25/77]~~

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. 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. 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. 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. 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. 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 Owner/Operator performs maintenance on, or services, repairs, or disposes of appliances, 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 Owner/Operator performs service on motor vehicles when this service involves the ozone-depleting refrigerant in the motor vehicle air conditioner (MVAC), 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]
23. Owner/operator desiring to renew this Federal Operating Permit shall submit an application for renewal at least six (6) months, but no earlier than eighteen (18) months, prior to the expiration date of this Federal Operating Permit. [40 CFR 70, Rule 1202(B)(3)(b)]

PART V
OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO (S):

B. OFF PERMIT CHANGES:

- I. Permittee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
- A. Permittee 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)d]*
 - 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) d]*
 - d. The change does not violate any Federal, State or Local requirement, including an applicable requirement; and *[See 1203(E)(1)(c)(i)c]*
 - 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)e]*
- II. Procedure for “Off Permit” Changes
- A. If a proposed “Off Permit Change” qualifies under Part V, Section (B)(I)(A)(1) above, permittee shall implement the change as follows:
1. Permittee shall apply for an Authority To Construct permit pursuant to the provisions of Regulation II. *[See 1203(E)(1)(c)(i)b]*
 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)(i)b]*
 - b. A list of any new Applicable Requirements which would apply as a result of the change; and *[See 1203(E)(1)(c)(i)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)(i)c]*
 3. Permittee shall forward a copy of the application and notification to USEPA upon submitting it to the District. *[See 1203(E)(1)(c)(i)a]*
- B. Permittee 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)(i)a and g]*

- C. Permittee 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. Permittee 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, ABBREVIATIONS, DEFINITIONS

- A. The following referencing conventions are used in this Federal Operating Permit:
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 SO₂ Emissions Data Protocol
40CFR75, Appendix F, Conversion Procedures
40CFR75, Appendix G, Determination of CO₂ 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:

APCO	Air Pollution Control Officer
bhp	brake horse power
Btu	British thermal units
CARB	California Air Resources Board
CEMS	continuous emissions monitoring system
CFR	Code of Federal Regulations
CO	carbon monoxide
CO ₂	carbon dioxide
District	Mojave Desert Air Quality Management District (formed July 1993)
EO	Executive Order
hp	horse power
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
o/o	Owner/operator
PM ₁₀	particulate matter less than 10 microns aerodynamic diameter
psia	pounds per square inch absolute
psig	pounds per square inch gage
rpm	revolutions per minute
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO ₂	sulfur dioxide
Tpy	tons per year

D. MDAQMD Rule SIP History

For Rule SIP History including approval, pending approval, etc, see:

<http://www.mdaqmd.ca.gov/Modules/ShowDocument.aspx?documentid=45>

**COMPLIANCE ASSURANCE MONITORING
PLAN
(CAM Plan)**

for

ACE Cogeneration

**Prepared for:
ACE Cogeneration
12801 Mariposa Street
Trona, CA 93582**

**Prepared by:
Constellation Power Generation
95 Enterprise
Aliso Viejo, CA 92656**

September 2008

Compliance Assurance Monitoring Plan (CAM Plan) ACE Cogeneration

I. Emission Unit Description

Description: Circulating fluidized bed combustion boiler (coal and petroleum coke fired)

Identification: Boiler

Facility: ACE Cogeneration
12801 Mariposa Street
Trona, California

II. Applicable Regulations, Limits, and Monitoring Requirements

Regulations: 40 CFR 64

Permit Number: 50001051

Emission Limits: 14.6 lbs/hr

Monitoring Requirements:

PM: Stack test every year or when directed by District

Control Technology:

Baghouse Manufactured by Brandt Environmental Corp.

III. Additional Information

The facility is subject to the Compliance Assurance Monitoring (CAM) requirements for PM because it is a major source for PM emissions (uncontrolled) and there is no continuous monitor for the PM emissions.

The PM₁₀ emissions are controlled by a baghouse. It has ten (10) compartments, each of which can be isolated if necessary. The pressure drop across the baghouse is monitored continuously and the opacity in the exhaust stack is measured continuously. The pressure drop for each compartment is recorded once per day in an electronic log. The baghouse cleaning cycle is controlled by a pressure differential across the entire baghouse. When the set point is reached, each compartment will be cleaned in a specified order.

The facility has a Circulating Fluidized Bed (CFB) boiler. Upon leaving the boiler, the

exhaust gases pass through cyclones which remove large particulates (PM) from the flue gas stream. The exhaust gases then pass through the backpass section and into the fabric filter for additional particulate removal.

IV. Monitoring Approach

The monitoring approach is to track indicators of the baghouse performance. The indicators chosen are pressure drop across the baghouse and opacity measured in the exhaust stack. The pressure drop is indicative of several potential problems associated with the operation of a fabric filter such as: blinding of the filters and the incorrect operation of the baghouse cleaning cycle. The opacity is monitored in the exhaust stack and higher values are indicative of a decrease in fabric filter performance. The key elements of the monitoring approach are presented in Table 1.

Table 1
Monitoring Approach Data

Description	Indicator 1	Indicator 2
A. Indicator	Pressure Drop	Exhaust Stack Opacity
Measurement Approach	Pressure difference between upstream and downstream sections of baghouse	Percent of light passing across stack is measured
B. Indicator Range	- 0 in H ₂ O to 20 in H ₂ O - At 6.5 to 7 in H ₂ O, the baghouse cleaning cycle will be initiated	- 0% – 100% - The permit limit is no more than 3 minutes in excess of 20% each hour - Baghouse operating characteristics will be reviewed after an excess emission event
C. Performance Criteria		
Data Representativeness	The pressure drop is monitored continuously	The exhaust gas opacity is monitored continuously by the opacity monitoring system
Verification of Operational Status	Pressure drop is recorded once per day for each compartment	Opacity is recorded continuously

Description	Indicator 1	Indicator 2
QA/QC Practices and Criteria	Quarterly maintenance checks per the manufacturer's recommendations and as described in the O&M Plan	Maintenance checks are performed as recommended by the manufacturer and as described in the O&M Plan Monthly VEE readings by certified personnel
Monitoring Frequency	Data recorded once per day for each compartment	Data recorded continuously in the DAS as one-minute values
Monitor Location	- Across inlet and outlet of each baghouse compartment - Across inlet and outlet of baghouse	Per USEPA Method 9
Data Collection Procedure	Pressure drop readings for each compartment are recorded once per day in an electronic log. The maintenance personnel involved complete maintenance work orders describing work completed	Data is recorded in DAS automatically.
Averaging Period	NA	NA

V. Justification for Monitoring Approach

Background

The emission unit is the 1,052 MMBtu/hr circulating fluidized bed (CFB) combustion boiler, which has a nameplate rating of 115 MW (gross). The boiler is permitted to combust coal, petroleum coke, and natural gas. The boiler was put into service in 1990. The particulate matter (PM) emissions from the CFB boiler are controlled by a baghouse. The CAM Plan applies during normal operations, the maintenance section of the O&M Plan will be followed during maintenance periods.

Rationale for Selection of Performance Indicators

The pressure drop across the bags was selected as a performance indicator because an increase in pressure differential is indicative of fabric blinding or decreased permeability and a decrease in pressure differential is indicative of a change in operation.

The stack exhaust gas opacity was selected as a performance indicator because an increase in opacity indicates process changes, changes in baghouse efficiency, or leaks in the bag(s).

Rationale for Selection of Indicator Ranges

The pressure differential indicator range is based on the maximum pressure for which the bags were designed to normally operate. Experience at the facility has shown that baghouse performance can decrease and the number of broken bags increases if the pressure drop is allowed to exceed the set point for the cleaning cycle (6.5 to 7 in H₂O).

The opacity range is the instrument range (0 to 100%). During normal operation, the stack exhaust opacity readings are less than 5%. Elevated opacity readings indicate potential changes in baghouse operation and or leaks.

APPENDIX A EMISSION CALCULATIONS

Estimate PM10 emissions from stack

Basis: ACE facility

Firing rate -	1,052	MMBtu/hr
Fuel HHV (avg) -	10,000	Btu/lb
Op hrs/year	8,760	hours per year (maximum)
Fuel Usage -	460,776	tons/yr

Emission Factor (AP-42, 5th edition, Section 1.1, Table 1.1-4)

Bituminous coal as surrogate, fluidized bed, circulating (FBC, circulating) [Uncontrolled Emissions]

PM10 emissions 12.4 lbs PM10/ton fuel burned (uncontrolled)

PM10 Control Efficiency, Baghouse

99.0 percent

PM10 emissions [EF] x [tons coal burned] = PM10 emissions

652.2 lbs PM10/hr (uncontrolled)

5,713,622 lbs PM10/yr (uncontrolled)

2,857 tons PM10/yr (uncontrolled)

6.5 lbs PM10/hr (controlled)

57,136 lbs PM10/yr (controlled)

28.6 tons PM10/yr (controlled)

The uncontrolled PM10 emissions are above the major source threshold, therefore CAM applies for PM10 emissions

The following method was used by SJVAPCD to determine CAM applicability for Rio Bravo Poso.

Stack Emissions

Basis: emission limit in permit

Permitted PM10 Emission Limit	14.6	lbs/hr (verified by annual compliance test, controlled emission)
-		
Baghouse efficiency -	99	percent (assumed)
Operating hours -	8,760	hours/year

Uncontrolled emissions = controlled emissions x 8,760 hrs/yr ÷ (1 - control efficiency/100)

Uncontrolled emissions = 12,789,600 lbs PM10/year

6,395 tons/year

The uncontrolled PM10 emissions are above the major source threshold, therefore CAM applies for PM10 emissions