Mojave Desert Air Quality Management District

Clean air is everybody's business.

FEDERAL OPERATING PERMIT

Permit No.: **3101437**

Company: **Southern California Gas Company**

Facility: **Blythe Compressor Station**

Issue date: **TBD**

Expiration date: **TBD**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

14306 Park Avenue
Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: **permitting@MDAQMD.ca.gov**

www.MDAQMD.ca.gov • @MDAQMD

Signed and issued by

BRAD POIRIEZ

EXECUTIVE DIRECTOR/
AIR POLLUTION CONTROL OFFICER

PERMIT REVISIONS

November 2020 Title V Permit Renewal (by: Samuel J Oktay, PE);
Page I-4; updated contact information.

Page I-6 thru I-8; updated equipment descriptions.

Pages II-11 thru II-24; updated MDAQMD Rule summaries for District Rules 442, 1104, 1114, and 1115.
Pages III-24 thru III-113; updated permit conditions for consistency with similar permits; updated permit descriptions and added equipment stack information, and equipment elevation to applicable devices.
Pages III- 40; revised current condition number 5 for District Permits B008079 and B008080, regarding missing fuel records and the use of substitute data to estimate missing fuel use.
Pages III- 52; revised current condition number 5 for District Permits B008081, B008082, B008083, and B008084, regarding missing fuel records and the use of substitute data to estimate missing fuel use.
Pages III-55 thru III-61; New State only District Permit B013430. State Only Requirement, pursuant to California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities.

Pages VI-118 thru VI-120; updated Abbreviations List.

Pages VII-122 thru VII-126; updated SIP Summary Table.

January, 2019: Title V Significant Modification (by: Samuel J Oktay, PE); The Blythe Compressor upgrade project shall be implemented in two Phases, Phase I and Phase II. New Equipment, and Modification of existing equipment, requires a Significant Modification to this Title V Federal Operating Permit. Pages affected are: I-4 through I-25, II-31 through II-42, III-43 through III-97, VI-103 through VI-105, and VII-106 through VII-147.

2016 Administrative Permit Change (by: Samuel J Oktay, PE)**;** Updated contact information; Page I-4

2014 Administrative Permit Renewal (by: Samuel J Oktay, PE)**;** Revised Rule 1113 references; all Rule SIP History and Status moved to Appendix VII page VII-48 to VII-55; Revised Contact Information; corrected equipment descriptions; removed references to equipment no longer on site; revised permit conditions and descriptions for all IC Engines to include RICE NESHAP 40 CFR Part 63 Subpart ZZZZ requirements. Added Permit Revision Summary, Page 2; added Rule 1211 Requirements regarding GHG emissions to Page II-18.

TABLE OF CONTENTS

PART I
INTRODUCTORY INFORMATION

A. FACILITY INFORMATION:

Owner/Company Name:	Southern California Gas Company
Facility Name:	Blythe Compressor Station (BCS)
Facility Location:	13-100 West 14th Avenue, Blythe, CA 92225
Mailing Address:	P.O. Box 2300 Chatsworth CA 91313
Federal Operating Permit Number:	3101437
MDAQMD Company Number:	31
MDAQMD Facility Number:	01437
Responsible Official:	Mr. Firas Hamze Field Operations Manager 562-477-1107
Facility "Site" Contact #1:	William Temple (442) 226-5438
Facility "Site" Contact #2	Alison Wong Senior Environmental Specialist 213-604-4534 AWong2@socalgas.com
Facility “Off Site” Contact(s):	Chanice Allen Environmental Team Lead 213-276-5047 CAllen2@socalgas.com
Nature of Business:	Natural Gas Compression and Transmission
SIC/NAICS Code:	4922/486210 – Pipeline Transportation of Natural Gas
Facility Coordinates:	UTM (Km) 718.704E / 3720.720N
Decimal Coordinates:	33.60457, -114.64131

B. FACILITY DESCRIPTION

Federal Operating Permit (FOP number: 3101437) for Southern California Gas Company (SCG)**,** Blythe Compressor Station, located at 13-100 West 14th Avenue, Blythe, CA 92225. S

The SCG**,** Blythe Compressor Station - is a natural gas compression and transmission pipeline facility located near Blythe, California. Equipment consists of Turbine Compressors, Spark-Ignited (SI) Natural Gas fired Generators, Natural Gas-Powered Pneumatic Devices and Pumps, and Waste Oil Storage Tank, as described:

C. EQUIPMENT DESCRIPTION

District Permit No.	**Equipment Description**
B004154	NATURAL GAS IC ENGINES POWERING RECIPROCATING COMPRESSORS
B004158	NATURAL GAS IC ENGINE, GENERATOR 5, PLANT 2, AUXILIARY BUILDING
B004159	NATURAL GAS IC ENGINE, RECIPROCATING AIR COMPRESSOR, PLANT 2, AUXILIARY BUILDING
B008079	NATURAL GAS IC ENGINE, RECIPROCATING COMPRESSOR 1, PLANT 3
B008080	NATURAL GAS IC ENGINE, RECIPROCATING COMPRESSOR 2, PLANT 3
B008081	NATURAL GAS IC ENGINE, GENERATOR 1, CENTRAL SUPPORTING
B008082	NATURAL GAS IC ENGINE, GENERATOR 2, CENTRAL SUPPORTING
B008083	NATURAL GAS IC ENGINE, GENERATOR 3, CENTRAL SUPPORTING
B008084	NATURAL GAS IC ENGINE, GENERATOR 4, CENTRAL SUPPORTING,
B012852	TURBINE, CENTRIFUGAL NATURAL GAS COMPRESSOR 1, PLANT 4
B012853	TURBINE, CENTRIFUGAL NATURAL GAS COMPRESSOR 2, PLANT 4
B012854	TURBINE, CENTRIFUGAL NATURAL GAS COMPRESSOR 3, PLANT 4
B012855	TURBINE, CENTRIFUGAL NATURAL GAS COMPRESSOR 4, PLANT 4
B012864	NATURAL GAS IC ENGINE, PRIME GENERATOR 1, PHASE I

	(GENERATOR BUILDING) c
B012865	NATURAL GAS IC ENGINE, PRIME GENERATOR 2, PHASE I (GENERATOR BUILDING)
B012866	NATURAL GAS IC ENGINE, PRIME GENERATOR 3, PHASE I (GENERATOR BUILDING)
B012867	NATURAL GAS IC ENGINE, PRIME GENERATOR 4, PHASE I (GENERATOR BUILDING)
B012868	NATURAL GAS IC ENGINE, PRIME GENERATOR 5, PHASE I (GENERATOR BUILDING)
B013092	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 11, PRE-PHASE I AND PHASE I
B013093	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 12, PHASE I
B013094	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 13, PHASE II
B013095	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 14, PHASE I
B013096	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 15, PHASE I
B013430	NATURAL GAS POWERED PNEUMATIC DEVICES
C008086	OXIDATION CATALYST
C008087	OXIDATION CATALYST
C008089	NON-SELECTIVE CATALYTIC REDUCTION DEVICE
C008090	NON-SELECTIVE CATALYTIC REDUCTION DEVICE
C008091	NON-SELECTIVE CATALYTIC REDUCTION DEVICE
C008092	NON-SELECTIVE CATALYTIC REDUCTION DEVICE
C012856	PLANT 4, TURBINE COMPRESSOR 1, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I
C012857	PLANT 4, TURBINE COMPRESSOR 2, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I
C012858	PLANT 4, TURBINE COMPRESSOR 3, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II
C012859	PLANT 4, TURBINE COMPRESSOR 4, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II
C012860	PLANT 4, TURBINE COMPRESSOR 1, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE I
C012861	PLANT 4, TURBINE COMPRESSOR 2, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE I
C012862	PLANT 4, TURBINE COMPRESSOR 3, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE II
C012863	PLANT 4, TURBINE COMPRESSOR 4, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE II
C012870	GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR

	1, PHASE I,
C012871	GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 2, PHASE I,
C012872	GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 3, PHASE I,
C012873	GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 4, PHASE I,
C012874	GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 5, PHASE I
C013221	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 11, OXIDATION CATALYST (OXCAT) SYSTEM, PRE-PHASE I AND PHASE I
C013222	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 12, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I
C013223	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 13, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II,
C013224	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 14, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE
C013225	NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK 15, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I,
E013097	DIESEL IC ENGINE, EMERGENCY DIRECT-DRIVE WATER PUMP, PHASE I,
N004119	GASOLINE DISPENSING FACILITY (NON-RETAIL)
T004134	STORAGE TANK, TRANSFER OIL, SW CORNER OF PLANT 1
T004135	STORAGE TANK, WASTE OIL, PLANT 1
T004136	STORAGE TANK, WASTE OIL
T004138	STORAGE TANK, WASTE OIL, PLANT 2
T004422	STORAGE TANK, TRANSFER OIL
T010103	NATURAL GAS ODORANT STORAGE & INJECTION SYSTEM
T013121	AQUEOUS AMMONIA STORAGE TANK, PHASE 1

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 to construct is required to build, erect, install, alter or replace any equipment, the use of which may cause the issuance of air contaminants or the use of which may eliminate, reduce or control the issuance of air contaminants.
[District Rule 201 - *Permits to Construct*]

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

3. The Air Pollution Control Officer may impose written conditions on any permit to assure compliance with all applicable regulations.
[District Rule 204 - *Permit Conditions*]

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

5. Permits to Operate may be posted in a visible location within the facility office.
[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.
[District Rule 207- *Altering or Falsifying of Permit*]

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

8. The Air Pollution Control Officer (APCO) may require the applicant or permittee to provide and maintain such facilities as are necessary for sampling and testing. In the event of such requirements, the Air Pollution Control Officer shall notify the applicant in writing of the required size, number and location of sampling ports; the size and location of the sampling platform: the access to the sampling platform, and the utilities for operating the sampling and testing equipment. The platform and access shall be constructed in accordance with the General Industry Safety Orders of the State of California.
[District 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 District Rule 219 and meets the applicable criteria contained in District Rule 219 (B). However, any exempted insignificant activities/equipment are still subject to all applicable facility-wide requirements.
[District Rule 219 - *Equipment Not Requiring a Written Permit*]

10. This Facility, which is subject to the provisions of District Regulation XII, shall obtain a Federal Operating Permit.
[District Rule 221 - *Federal Operating Permit Requirement*]

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

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

13. Any air contaminant from any emission source whatsoever located at this Facility, shall not be discharged into the Atmosphere for a period or periods aggregating more than three minutes in any one hour, which is as observed using EPA Method 9 (Visual Determination of the Opacity of Emissions from Stationary Sources). Visible emissions from this facility, of any air contaminant 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 supplier's 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 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.

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

14. Owner/Operator shall not burn any gaseous fuel at this facility containing sulfur compounds in excess of 800 parts per million (ppm), calculated as hydrogen sulfide at standard conditions, or any liquid or solid fuel having a sulfur content in excess of 0.5 percent by weight. Compliance with Rule 431 fuel sulfur limit for PUC quality natural gas fuel shall be by the exclusive use of utility grade/pipeline quality natural gas. Records of natural gas supplier fuel quality/sulfur content limit shall be kept on-site and available for review by District, state or federal personnel at any time. Compliance with Rule 431 fuel sulfur limit for diesel fuel is assumed for CARB certified diesel fuel. The sulfur content of non-CARB 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.
[District Rule 431 - *Sulfur Content of Fuels*]
[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

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.
[District Rule 403 - *Fugitive Dust*]

16. Owner/Operator shall comply with the applicable requirements of Rule 403.2 unless an "Alternative PM_{10} Control Plan" (ACP) pursuant to Rule 403.2(G) has been approved.
[District 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 District 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.

[District 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 District 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.

[District 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, any one or more of the following contaminants in any state or combination thereof, exceeding in concentration:

(a) Sulfur compounds, which would exist as a liquid or gas at standard conditions, calculated as sulfur dioxide (SO_2), greater than or equal to 500 ppm by volume.

(b) The following elements and compounds which would exist as a liquid or gas at standard conditions:

Element or Compound	**Limitations (PPM by volume)**
Hydrogen Fluoride (HF)	400
Hydrogen Chloride (HCl)	800
Hydrogen Bromide (HBr)	50
Bromine (Br)	50
Chlorine (Cl_2)	450
Fluorine (F_2)	50

This rule does not apply to combine fluorides, chlorides or bromides, other than the acid version. With respect to fluorides, the rule applies only to the combustion of hydrogen-containing fuels and fluorine-containing oxidizers to form hydrogen fluoride.

[District Rule 406 - *Specific Contaminants*]
[40 CFR 70.6 (a)(3)(i)(B) - *Periodic Monitoring Requirements*]

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.

[District 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.

[District Rule 408 - *Circumvention*]

22. Owner/Operator shall not discharge into the atmosphere from this facility from the burning of fuel, combustion contaminants exceeding 0.23 gram per cubic meter (0.1 grain per cubic foot) of gas calculated to 12 percent of carbon dioxide (CO_2) at standard conditions averaged over a minimum of 25 consecutive minutes.
[District 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 District 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.

[District Rule 430 - *Breakdown Provisions*]

24. Owner/Operator of this facility shall comply with all applicable requirements of District Rule 442 and must meet the following emission and operating requirements:

(a) Shall not discharge VOCs into the atmosphere from all VOC containing materials, Emissions Units, equipment or processes subject to this rule, in excess of 540 kilograms (1,190 pounds) per month at this Facility.

(i) Compliance with the VOC limit above may be obtained through use of any of the following or any combination thereof:

a. Product reformulation or substitution;
b. Process changes;
c. Improvement of operational efficiency;
d. Development of innovative technology;
e. Operation of emission collection and control system that reduces overall emissions by eighty-five percent (85%).

(b) Shall not discharge into the atmosphere a non-VOC organic solvent in excess of 272 kilograms (600 pounds) per day as calculated on a thirty (30) day rolling average. For purposes of VOC quantification, discharge shall include a drying period of 12 hours following the application of such non-VOC solvents.

(c) The provisions of this condition shall not apply to:
  (i) The manufacture, transport or storage of organic solvents, or the transport or storage of materials containing organic solvents.
  (ii) The emissions of VOCs from VOC-containing materials or equipment which are subject to District Regulation IV rules or which are exempt from air pollution control requirements by such rules.
  (iii) The use of pesticides including insecticides, rodenticides or herbicides.
  (iv) The use of 1,1,1 trichloroethane, methylene chloride and trichlorotrifluroethane.
  (v) Aerosol products.
  (vi) VOC containing materials or equipment which are not subject to VOC limits of any rule found in District Regulation XI – *Source Specific Standards*.

(d) Owner/operator shall maintain daily usage records for all VOC-containing materials subject to this condition. The records shall be retained for five years and be made available upon request. VOC records shall include but not be limited to:
  (i) The amount, type and VOC content of each solvent used; and
  (ii) The method of application and substrate type; and
  (iii) The permit units involved in the operation (if any).

(e) Determination of VOC Content in Solvent-containing materials, Presence of VOC in Clean-up Materials, and/or Determination of Efficiency of Emission Control Systems must be made in accordance with methods and provisions of District Rule 442.

[District Rule 442 - *Usage of Solvents*]

25. Owner/Operator shall not set open outdoor fires unless in compliance with District Rule 444. Outdoor fires burned according to an existing District permit are not considered "open outdoor fires" for the purposes of Rule 444 (reference District Rule 444(B)(9)). [District Rule 444]

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

(a) An Owner/Operator shall not use a solvent with a VOC content that exceeds 25 grams of VOC per liter, as applied, for cleaning or surface preparation in any operation subject to this Rule.

(b) As an alternative to, or in lieu of, the above VOC limits, an Owner/Operator may use cleaning materials with a VOC composite vapor pressure limit of 8 millimeters of mercury (mm Hg) or less at 20 degrees Celsius.

Control Equipment:

(a) Owner/Operator may comply with the VOC limits above by using approved air

pollution control equipment provided that the VOC emissions from such operations and/or materials are reduced in accordance with the following:

(i) The control equipment shall reduce emissions from an emission collection system by at least 95 percent (95%), by weight, or by reducing the output of the air pollution control equipment to less than 25 ppm calculated for carbon with no dilution; and

(ii) The Owner/Operator demonstrates that the system collects at least 90 percent (90%), by weight, of the emissions generated by the sources of emissions.

Cleaning Equipment and Method Requirements:

An Owner/Operator shall not perform solvent cleaning unless one of the cleaning devices or methods listed below are used, and the applicable requirements that follow are used:

(a) Wipe Cleaning;

(b) Closed containers or hand held spray bottles from which solvents are applied without a propellant-induced force;

(c) Cleaning equipment which has a solvent container that can be, and is closed during cleaning operations, except when depositing and removing objects to be cleaned, and is closed during non-operation with the exception of maintenance and repair to the equipment itself;

(d) Non-atomized solvent flow method where the cleaning solvent is collected in a container or a collection system which is closed except for solvent collection openings and, if necessary, openings to avoid pressure build-up inside the container; or

(e) Solvent flushing method where the cleaning solvent is discharged into a container which is closed except for solvent collection openings and, if necessary, openings to avoid excessive pressure build-up inside the container. The discharged solvent from the equipment must be collected into containers without atomizing into the open air. The solvent may be flushed through the system by air or hydraulic pressure, or by pumping.

(f) All Degreasers shall be equipped with the following:

(i) An apparatus or cover(s) which reduces solvent evaporation, except for remote reservoirs.

(ii) A permanent, conspicuous label summarizing the applicable operating requirements. 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.

(g) Remote Reservoirs shall be equipped with the following:

(i) A sink, platform or work area which is sloped sufficiently towards a drain to prevent pooling of solvent within the work area.

(ii) A single or total drain hole area, not larger than 100 square centimeters (15.5 square inches) in area, for the Solvent to flow from the sink (platform/work area) into the enclosed reservoir.

(iii) If high volatility solvent is used, a drain cover/plug/closure device or a cover for placement over the top of the sink (platform/work area), when the equipment is not being used, cleaned or repaired.

(iv) A minimum sink depth of six (6) inches, as measured from the top of the

drain to the top of the side of the sink.

(h) 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^{o}C (120^{o} 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 (1).

Cold Solvent Degreasers - Cover Requirements:

(v) 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.

Cold Solvent Degreasers - Solvent Level Identification:

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

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, including shop towels, containing solvent shall be kept in closed containers at all times, except during use.

(xii) Cleaning operations 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.

District 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 VOC limits, equipment limits or the operational limits of Rule 1104 shall be subject to the applicable provisions of Rule 442.

Solvent Usage Records:

Owner/Operator subject to Rule 1104 or claiming any exemption under Rule 1104, shall comply with the following requirements:

(i) 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:

a. Product name(s) used in the degreaser;
b. The mix ratio of mixtures containing solvents as used;
c. VOC content of solvent or mixture of compounds as used;
d. The total volume of the solvent(s) used for the facility, on a monthly basis; and
e. The name and total volume applied of wipe cleaning solvent(s) used, on a monthly basis.

(ii) Additionally, for any degreaser utilizing an add-on emission control equipment/system as a means of complying with the provisions of Rule 1104 shall, maintain and produce daily records of key system operating parameters and maintenance procedure which will demonstrate continuous operating and compliance of the air pollution abatement during periods of emission

producing activities. Key system operating parameters are those necessary to ensure compliance with subsection (C)(2)(a), such as temperatures, pressures and flow rates.

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

(iv) Records shall be retained on site 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.

[District Rule 1104 - *Organic Solvent Degreasing Operations*]

27. Owner/Operator's use of Architectural Coatings at this facility shall comply with the applicable requirements of District Rule 1113, including the VOC limits specified in District Rule 1113, Tables 1 and 2.
[District Rule 1113 - *Architectural Coatings*]

28. Owner/Operator's use of Wood Products Coatings at this facility shall comply with the applicable requirements of District Rule 1114, including, but not limited to, Application Methods, VOC Content of Coatings, and Strippers, Surface Preparation and Cleanup Solvent.
[District Rule 1114 - *Wood Products Coating Operations*]

29. Owner/Operator's use of Metal Parts and Products Coatings at this facility shall comply with the applicable requirements of District Rule 1115, including, but not limited to, Application Methods, VOC Content of Coatings, and Strippers, Surface Preparation and Cleanup Solvent.
[District Rule 1115 - *Metal Parts and Products Coatings Operations*]

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. Owner/Operator shall comply with all requirements of District 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.
[District Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits*]

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

[District Rule 1202(B)(3)(b)(i); District Rule 1202(E)(2)(a)]

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.
[District Rule 1203(D)(1)(d)(ii)]
[40 CFR 70.6(a)(3)(ii)(B)]

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.
[District 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.

   [District Rule 2014 – *Permit Conditions*]
   [*40 CFR 70.6(a)(3)(B) – Periodic Monitoring Requirements*; Rule 204; Federal Clean Air Act: §110(a)(2)(F, K & J); §112; §172(c)(3); §182(a)(3)(A & B); §187(a)(5); § 301(a)] and in California Clean Air Act, Health and Safety Code §§39607 and §§44300 et seq.]

4. Owner/Operator shall submit, annually, a Compliance Certification as prescribed by District Rule 1203(F)(1) and District 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.
[District Rule 1203(D)(1)(g)(v-x)]
[District Rule 1203(D)(1)(g)(v-x)]

[40 CFR 72.90.a; 40 CFR 70.6(c)(5)(i)]

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

(b) 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.
[District Rule 1203(D)(1)(g)(x)]

(c) 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.
[District Rule 1203(D)(1)(g)(v - x)]
[40 CFR 72.90.a]

(d) The annual Compliance Certification shall be submitted as follows:

Report covering May 1 – April 30	Due by May 30

5. The owner/operator shall submit, semi-annually, a Monitoring Report to the APCO/District. The Monitoring Reports shall be certified to be true, accurate, and complete, signed by the Responsible Official, and shall include the following information and/or data:

(a) Summary of deviations from any federally enforceable requirement in this permit.

(b) Summary of all emissions monitoring and analysis methods required by any Applicable Requirement/federally - enforceable requirement.

(c) Summary of all periodic monitoring, testing or record keeping (including test methods sufficient to yield reliable data) to determine compliance with any Applicable Requirement/federally enforceable requirement that does not directly require such monitoring.

(d) Summary of necessary requirements concerning use and maintenance of equipment, including the installation and maintenance of monitoring equipment.

(e) The semi-annual reporting periods shall be submitted as follows:

Report covering May 1 – October 31	Due by November 30
Report covering November 1 – April 30	Due by May 30

[District 1203(D)(1)(c)(i - iii); District 1203(D)(1)(d)(i); District Rule 1203(D)(1)(e)(i - ii); District Rule 1203(D)(1)(g)(v - x)]

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.

[District Rule 1203(D)(1)(e)(ii) and District 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: District Rule 430 - *Breakdown Provisions* as amended 12/21/94 and submitted 02/24/95]

(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.
[District 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.
[District Rule 1203(D)(1)(g)(i)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(ii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iii)]
[40 CFR 70.6(c)(2)(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.
[District Rule 1203(D)(1)(g)(iv)]
[40 CFR 70.6(c)(2)(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.
[District Rule 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.
[District Rule 1201(I)(2) and District 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. MDAQMD PERMIT NUMBER B004154, NATURAL GAS IC ENGINES POWERING RECIPROCATING COMPRESSORS, consisting of: Year of Manufacturer 1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); these existing 2SLB engines each with a rating of more than 500 brake HP and located at a major source of HAP emissions do NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b of this subpart.

Engines are Eight Dresser-Clark natural gas-fired engines, Model HBA8, driving natural gas compressors in two plants as specified below producing 1760 bhp with 8 cylinders at 300 rpm while consuming a maximum of 17 MMBtu/hr each.

Stack is 22.5 foot-high and 1.70 foot in diameter. Stack exhausts at 12639.5 cfm at a temperature of 631 deg F and velocity of 5572 fpm.

This Permit permits Eight Identical Clark Engines. Five of those engines will modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II. Clark Compressor 11 will be modified first to determine which technologies and controls will ultimately be used on Clark Compressor No's 11, 12, 14, & 15, which will be Modified during Phase I; Clark No. 13 to be modified during Phase II.

NOTE: ENGINES WITH SERIAL NUMBERS 30129, 30151, AND 30194 ARE SCHEDULED TO BE SHUT DOWN AND THIS PERMIT CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT. THIS PERMIT WILL BE MODIFIED ACCORDINGLY AND AS THE BCS PROJECT PROGRESSES.

ENGINE DISPOSITION PLAN:

Engine Clarke Number	Serial Number	Phase I Permit No.	Phase II Permit No.	Plant Location	Planned Disposition
Clarke Compressor 8	30129	B004154	NA	Plant #1	Shutdown During Phase II
Clarke Compressor 9	30151	B004154	NA	Plant #1	Shutdown During Phase II
Clarke Compressor 10	30194	B004154	NA	Plant #1	Shutdown During Phase II
Clarke Compressor 11	30251	B013092	B013092	Plant #2	Experimental Engine Modified prior to and during Phase I
Clarke Compressor 12	30250	B013093	B013093	Plant #2	Shutdown During Phase I
Clarke Compressor 13	30263	B004154	B013094	Plant #2	Shutdown During Phase II
Clarke Compressor 14	30264	B013095	B013095	Plant #2	Shutdown During Phase I
Clarke Compressor 15	30265	B013096	B013096	Plant #2	Shutdown During Phase I

OPERATING CONDITIONS APPLICABLE TO PERMIT NUMBER B004154:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [40 CFR 63.6605(b) and District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve-month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
   [District Rule 1302(C)(2)(a)]

3. Owner/operator shall maintain a log of all inspections, repairs and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum of five (5) years. For missing records of fuel usage, the substitute data value shall be the best available estimate of the parameter, based on all available process data (e.g., load, operating hours, etc.). The procedure used to estimate the substitute data value shall be documented and records of the procedure used for such estimates shall be maintained.
   [40 CFR 98.35(b)(2), District Rule 1302 (C)(2)(a)]

4. Engine with serial number 30251 located at Plant can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the owner/operator shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

5. A detailed record of the engine modifications conducted shall be maintained; including engine model and serial number, modifications description, manufacturer data, and any other pertinent information that will ensure subsequent modifications can be accurately described and replicated.
[District Rule 1302(C)(2)(a)]

6. Not later than 90 days after the emission modifications have been completed, the owner/operator shall perform subsequent source testing on the modified engine pursuant to District approved test protocol.

   Note: It is anticipated that the modifications and resulting emission reductions to the Clark Compressor 11 Engine, will be replicated on Clark Compressor Engines 12, 14, and 15 during Phase I of the BCS upgrade project and Clark Compressor 13 Engine, during Phase II the BCS Project.

   Modifications to Clark Compressor Engines 12, 13, 14, and 15, and the permitting of any new equipment, shall NOT occur until the associated NSR Project comment periods' have concluded and any resulting comments have been properly addressed.
[District Rule 1302(C)(2)(a)]

7. Tests shall be conducted in accordance with the following test methods:
   (a) Flow rate in accordance with EPA Method 19; no current limit exists
   (b) Fuel analysis in accordance with ASTM D3588; limit no applicable
   (c) O2, and CO2 in accordance with EPA Method 3A
   (d) *NOx, per USEPA Methods 7E; shall not exceed 1500 ppm as tested
   (e) *CO, as tested per USEPA Method 10; shall not exceed 2000 ppm
   (f) VOC, shall be tested per EPA Method 18/GC-FID Analyses; no current limit exists.

   * Quantities shall be corrected to 15% oxygen.
[District Rule 1302(C)(2)(a)]

8. If the modified Engine with serial number 30251 is found to exceed 1500 PPM NOx @ 15% O2 or 2000 PPM CO @ 15%, then the Operator shall be given 15 calendar days to correct the problem while continuing to operate that engine. If the problem cannot be corrected within 15 days, then that engine must be shut down and kept out of operation until such time as it can be repaired and its compliance with either the NOx limit or CO

limit is confirmed by a either an emissions analysis or a certified source test.
[District Rule 1302(C)(2)(a)]

9. Source test results and emission analyses performed by the owner/operator shall be used only for the evaluation of the PCC equipment, or for rule-making purposes, and not be used for enforcement or compliance purposes.
[District Rule 1302(C)(2)(a)]

10. Once engine with serial number 30251 is retrofit, the owner/operator shall continue to complying with the emission limits of condition 8. Additionally, the owner/operator shall ensure that the engines' modifications will not cause a net emission increase of any criteria pollutant pursuant to District Regulation XIII; any modification related VOC increases shall be fully offset by Simultaneous Emissions Reductions (SERs) of NOX emissions at a 2:1 interpollutant offset ratio, NOX for VOCs. To ensure compliance with this requirement the owner/operator shall demonstrate emission changes through pre and post project emission source tests' as required above. The owner/operator shall notify the District within 90 days of any emission increase. All Emission increases shall be fully offset according to the requirements of Regulation XIII.
[District Rules 204 and 1302(C)(2(a)]

11. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

12. The owner/operator 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 DSCF) and total hours, and
    (c) Keep records of maintenance.
    [District Rule 1302(C)(2)(a)]

13. Conditions 13 through 26 ARE DISTRICT AND STATE ENFORCEABLE ONLY REQUIREMENTS and are specific to the requirements California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. In the event of conflict between conditions the more stringent requirements shall govern. These do not apply to reciprocating natural gas compressors that operate less than 200 hours per calendar year provided that the owner or operator maintains, and makes available upon request by the

ARB Executive Officer or district, a record of the operating hours per calendar year.
[17 CCR 95668 (c)(2)(A)]

14. By January 1, 2018 or within 180 days from installation, critical components used in conjunction with a critical process unit at facilities located in sectors listed in section 95666 of Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities must be pre-approved by the ARB Executive Officer if owners/operators wish to claim any critical component exemptions available under this subarticle. Critical components that have been designated as critical under an existing local air district leak detection and repair program as of January 1, 2018 are not subject the critical component requirements specified in this subarticle.
[17 CCR 95670(a)]

Note: The regulation states that critical components must be submitted to CARB by January 1, 2018; this deadline was met, however, some components were rejected by CARB. As of August 6, 2020, the critical component list remains in review and pending final approval by CARB.
[17 CCR 95670(a)]

Owners/operators must provide sufficient documentation demonstrating that a critical component is required as part of a critical process unit and that shutting down the critical component or process unit would impact safety or reliability of the natural gas system.
[17 CCR 95670(b)]

A request for a critical component or process unit approval is made by submitting a record of the component or process unit as specified in Appendix A, Table A3 along with supporting documentation to the ARB at the address listed in section 95673(b) of this subarticle.
[17 CCR 95670(c)]

Owners/operators shall maintain, and make available upon request by the ARB or the district staff, a record of all critical components or process units located at the facility as specified in Appendix A, Table A3.
[17 CCR 95670(d)]

Each critical component or critical process unit must be identified according to one of the following methods [17 CCR 95670(e)]:

(a) Identify each component using a weatherproof, readily visible tag that indicates it as an ARB approved critical component and includes the date of ARB Executive Officer approval; or,

(b) Provide a diagram or drawing of all critical components or the critical process unit upon request by the ARB Executive Officer and by district staff. Approval of a critical component may be granted only if owners/operators fully comply with this section. The ARB Executive Officer and/or District retain discretion to deny any request for critical component or process unit approval.

[17 CCR 95670(f)]

15. Beginning January 1, 2018, components on driver engines and compressors shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 16 through 23); except for the rod packing component subject to 17 95668(c)(4)(B), which is outlined below:

The compressor rod packing or seal emission flow rate through the rod packing or seal vent stack shall be measured annually by direct measurement (high volume sampling, bagging, calibrated flow measuring instrument) while the compressor is running at normal operating temperature using one of the following methods:

(a) Vent stacks shall be equipped with a meter or instrumentation to measure the rod packing or seal emissions flow rate; or,

(b) Vent stacks shall be equipped with a clearly identified access port installed at a height of no more than six (6) feet above ground level or a permanent support surface for making individual or combined rod packing or seal emission flow rate measurements.

(c) If the measurement is not obtained because the compressor is not operating for the scheduled test date and the remainder of the inspection period, then testing shall be conducted within 7 calendar days of resumed operation. The owner or operator shall maintain, and make available upon request by the ARB Executive Officer, a copy of operating records that document the compressor hours of operation and run dates in order to demonstrate compliance with this requirement.

[17 CCR 95668(c)(4)(A)&(B)]

16. Beginning January 1, 2018, all components, including components found on tanks, separators, wells, and pressure vessels not identified in 17 CCR 95669(b) shall be inspected and repaired as follows. The ARB Executive Officer may perform inspections at facilities at any time to determine compliance with the requirements specified. [17 CCR 95669(c)&(d)]

Except for inaccessible or unsafe to monitor components, the owner/operator shall audio-visually inspect (by hearing and by sight) all hatches, pressure-relief valves, well casings, stuffing boxes, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours; and, the owner/operator shall audio-visually inspect all pipes for leaks or indications of leaks at least once every 12 months. [17 CCR 95669(e)]

Any audio-visual inspection specified above that indicates a leak that cannot be repaired within 24 hours shall be tested using US EPA Reference Method 21 (October 1, 2017) within 24 hours after initial leak detection, and the leak shall be repaired in accordance with the repair timeframes specified:

(a) For leaks detected during normal business hours, the leak measurement shall be performed within 24 hours. For leaks detected after normal business hours or on a weekend or holiday, the deadline is shifted to the end of the next normal business

day.

(b) Any leaks measured above the minimum leak threshold shall be successfully repaired within the timeframes specified.

[17 CCR 95669(f)]

17. At least once each calendar quarter, all components shall be tested for leaks of total hydrocarbons in units of parts per million volume (ppmv) calibrated as methane in accordance with US EPA Reference Method 21 (October 1, 2017) excluding the use of PID instruments. Optical Gas Imaging (OGI) instruments may be used as a leak screening device, but may not be used in place of US EPA Reference Method 21 (October 1, 2017) during quarterly leak inspections, provided they are approved for use by the ARB Executive Officer and used by a technician with a certification or training in infrared theory, infrared inspections, and heat transfer principles (e.g., Level II Thermography or equivalent training); and, all leaks detected with the use of an OGI instrument shall be measured using US EPA Reference Method 21 (October 1, 2017) within two calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in this subarticle. All inaccessible or unsafe to monitor components shall be inspected at least once annually using US EPA Reference Method 21 (October 1, 2017).
[17 CCR 95669(g)]

18. On or after January 1, 2020, any component with a leak concentration measured above the following standards shall be repaired within the time period specified:

(a) Leaks with measured total hydrocarbon concentrations greater than or equal to 1,000 ppmv but not greater than 9,999 ppmv shall be successfully repaired or removed from service within 14 calendar days of initial leak detection.

(b) Leaks with measured total hydrocarbon concentrations greater than or equal to 10,000 ppmv but not greater than 49,999 ppmv shall be successfully repaired or removed from service within five (5) calendar days of initial leak detection.

(c) Leaks with measured total hydrocarbon concentrations greater than or equal to 50,000 ppmv shall be successfully repaired or removed from service within two (2) calendar days of initial leak detection.

(d) Critical components or critical process units shall be successfully repaired by the end of the next process shutdown or within 12 months from the date of initial leak detection, whichever is sooner.

A delay of repair may be granted by the ARB Executive Officer under the following conditions:

(i) The owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days from the dates specified above by which repairs must be made, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.

(ii) A gas service utility can provide documentation that a system has been

temporarily classified as critical to reliable public gas system operation as ordered by the utility's gas control office. [17 CCR 95669(i)]

On or after January 1, 2020, no facility shall exceed the number of allowable leaks listed below during an ARB Executive Officer or district inspection as determined in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments [17 CCR 95669(o)(2)&(3)]:

Leak Threshold	200 or Less Components	More than 200 Components
1,000-9,999 ppmv	5	2% of total inspected
10,000-49,999 ppmv	2	1% of total inspected
50,000 ppmv or greater	0	0

19. The failure of an owner/operator to repair leaks within the timeframes specified, during any inspection period, shall constitute a violation. Leaks discovered during an operator-conducted inspection shall not constitute a violation if the leaking components are repaired within the timeframes.
[17 CCR 95669(o)(4)&(5)]

20. Upon detection of a component with a leak concentration measured above the standards specified, the owner/operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the component until all of the following conditions are met:
    (a) The leaking component has been successfully repaired or replaced; and,
    (b) The component has been re-inspected and measured below the lowest standard specified for the inspection year when measured in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments.
    (c) Tags shall be removed from components following successful repair.
    [17 CCR 95669(j)]

21. Owner/operator shall maintain, and make available upon request by the ARB Executive Officer or district, a record of all leaks found at the facility as specified in Appendix A, Tables A4 and A5, and shall report the results to ARB and the district once per calendar year as specified in section 17 CCR 95673.
[17 CCR 95669(k)]

22. Additional Leak Detection and Repair Requirements: Hatches shall remain closed at all times except during sampling, adding process material, or attended maintenance operations. [17 CCR 95669(l)] Open-ended lines and valves located at the end of lines shall be sealed with a blind flange, plug, cap or a second closed valve, at all times except during operations requiring liquid or gaseous process fluid flow through the open-ended line. Open-ended lines do not include vent stacks used to vent natural gas from equipment and cannot be sealed for safety reasons. Open-ended lines shall be repaired as follows [17 CCR 95669(m)]:
    (a) Open-ended lines that are not capped or sealed shall be capped or sealed within

14 calendar days from the date of initial inspection.

(b) Open-ended lines that are capped or sealed and found leaking shall be repaired in accordance with the timeframes specified in 17 CCR 95669(h) and 95669(i).

Components or component parts which incur five (5) repair actions within a continuous 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21 (October 1, 2017), to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the ARB Executive Officer or district. [17 CCR 95669(n)]

23. Beginning January 1, 2019, compressor vent stacks used to vent rod packing or seal emissions shall be controlled with the use of a vapor collection system as specified in 17 CCR 95671 (as outlined by condition 24, below); or, a compressor with a rod packing or seal with a measured emission flow rate greater than two (2) standard cubic feet per minute (scfm), or a combined rod packing or seal emission flow rate greater than the number of compression cylinders multiplied by two (2) scfm, shall be successfully repaired within 30 calendar days from the date of the initial emission flow rate measurement.

A delay of repair may be granted by the ARB Executive Officer if the owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered.

A delay of repair to obtain parts or equipment shall not exceed 30 calendar days, or 60 days from the date from of the initial measurement, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.

A reciprocating natural gas compressor with a rod packing or seal emission flow rate measured above the standard specified in 17 CCR 95668(c)(4)(D) (as outlined above) and which has been approved by the ARB Executive Officer as a critical component, shall be successfully repaired by the end of the next scheduled process shutdown or within 12 months from the date of the initial flow rate measurement, whichever is sooner. [17 CCR 95668 - Standards, section (c)(4)(C),(D)&(F) Reciprocating Natural Gas Compressors]

24. Beginning January 1, 2019, the following requirements apply to equipment at facilities located in sectors listed in 17 CCR 95666 that must be controlled with the use of a vapor collection system and control device as a result of the requirements specified in section 95668 of this subarticle:

The vapor collection system shall direct the collected vapors to one of the following:

(a) Sales gas system; or,
(b) Fuel gas system; or,
(c) Gas disposal well not currently under review by the Division of Oil and Gas and

Geothermal Resources.
[17 CCR 95671(b)]

If no sales gas system, fuel gas system, or gas disposal well specified above is available at the facility, the owner or operator must control the collected vapors with either:

(a) A non-destructive vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not result in emissions of nitrogen oxides (NOx); or,

(b) A vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not generate more than 15 parts per million volume (ppmv) NOx when measured at 3 percent oxygen and does not require the use of supplemental fuel gas, other than gas required for a pilot burner, to operate.

[17 CCR 95671(d)]

If the collected vapors cannot be controlled as specified in herein, the equipment subject to the vapor collection and control requirements may not be used or installed and must be removed from service by January 1, 2019, and circulation tanks may not be used and must be removed from service by January 1, 2020. [17 CCR 95671(e)]

Vapor collection systems and control devices are allowed to be taken out of service for up to 30 calendar days per calendar year for performing maintenance. A time extension to perform maintenance not to exceed 14 calendar days per calendar year may be granted by the ARB Executive Officer. The owner or operator is responsible for maintaining a record of the number of calendar days per calendar year that the vapor collection system or vapor control device is out of service and shall provide a record of such activity at the request of the ARB Executive Officer. If an alternate vapor control device compliant with this section is installed prior to conducting maintenance and the vapor collection and control system continues to collect and control vapors during the maintenance operation consistent with the applicable standards specified in section 95671, the event does not count towards the 30-calendar day limit. Vapor collection system and control device shutdowns that result from utility power outages are not subject to enforcement action provided the equipment resumes normal operation as soon as normal utility power is restored. Vapor collection system and control device shutdowns that result from utility power outages do not count towards the 30-calendar day limit for maintenance.
[17 CCR 95671(f)]

25. The owner/operator shall maintain the following records for this equipment to comply with Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. These records must be made available to ARB or district staff upon request.

For Reciprocating Natural Gas Compressors [17 CCR 95672 (a)(5-8)]:

(a) Maintain, for at least five years from the date of each emissions flow rate measurement, a record of each rod packing emission flow rate measurement as specified in Appendix A, Table A7.

(b) Maintain, for at least one calendar year, a record that documents the date(s) and

hours of operation a compressor is operated in order to demonstrate compliance with the rod packing leak concentration or emission flow rate measurement in the event that the compressor is not operating during a scheduled inspection.

(c) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

For Leak Detection and Repair [17 CCR 95672 (a)(17-21)]:

(d) Maintain, for at least five years from each inspection, a record of each leak detection and repair inspection as specified in Appendix A Table A4.

(e) Maintain, for at least five years from the date of each inspection, a component leak concentration and repair form for each inspection as specified in Appendix A Table A5.

(f) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

(g) Maintain gas service utility records that demonstrate that a system has been temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.

For Vapor Collection System and Vapor Controls [17 CCR 95672 (a)(22)]:

(h) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

26. Beginning January 1, 2018, the owner/operator shall report the following information to ARB and the District by July 1st of each calendar year unless otherwise specified:

For Reciprocating Natural Gas Compressors [17 CCR 95673 (a)(2-3)]:

(a) Annually, report the emission flow rate measurement for each rod packing or seal as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95673 (a)(12-13)]:

(b) Annually, report the results of each leak detection and repair inspection conducted during the calendar year as specified in Appendix A, Table A4.

(c) Annually, report the initial and final leak concentration measurements for components measured above the minimum allowable leak threshold as specified in Appendix A Table A5. Reports shall be submitted as follows:

1. Reports made to the California Air Resources Board (CARB) shall be submitted electronically through their Cal e-GGRT Reporting Portal.

2. Submissions to the District may be submitted electronically to reporting@mdaqmd.ca.gov with the subject line "O&G GHG Regulation Reporting", or mailed to:
Mojave Desert AQMD
Attention: O&G GHG Regulation Reporting
14306 Park Avenue Victorville,
CA 92392

Note: It is anticipated that Districts will be able to retrieve Reports through the Cal-eGGRT portal sometime in 2020. Once that functionality is available, report submittals to the District will no longer be required.

27. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

B. LOCATED AT PLANT 2, IN THE AUXILIARY BUILDING, ARE TWO NATURAL GAS FIRED IC ENGINES:

B-1. MDAQMD PERMIT NUMBER B004158, NATURAL GAS IC ENGINE, GENERATOR 5, PLANT 2, AUXILIARY BUILDING, consisting of: Year of Manufacturer 1953. Engine is Subject to RICE NESHAP 40 CFR Part 63 Subpart ZZZZ, and is located at a HAP Major Source. Engine Exhaust is vented through an DCL America NSCR Catalyst DC73-8 CC.

THIS ENGINE AND ITS INTEGRAL NSCR CATALYST ARE SCHEDULED TO BE SHUT DOWN AND THIS PERMIT CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

One Ingersoll Rand, NG fired internal combustion engine Model No. PSVG and Serial No. 6BPS175, Four-Stroke Rich Burn, producing 408 bhp with 6 cylinders at 514 rpm while consuming a maximum of 5300 scf/hr. This equipment powers a GE Generator Model No. GEH-709 and Serial No. 8103959, rated at 280 kW(e).

B-2. MDAQMD PERMIT NUMBER B004159, NATURAL GAS IC ENGINE, RECIPROCATING AIR COMPRESSOR, PLANT 2, AUXILIARY BUILDING consisting of: Year of Manufacturer 1966. Engine is Subject to RICE NESHAP 40 CFR Part 63 Subpart ZZZZ, and is located at a HAP Major Source. To Comply With RICE NESHAP Engine is Equipped with an NSCR catalyst Manufactured By DCL; Catalyst Model DC49.

Engine has a maximum heat input of 1.55 MMBTU/Hr.

Equipment Elevation is 262 feet above sea level. Stack height is 15.9 feet and stack diameter is 0.50 feet.

Stack exhausts at 391 cfm at a temperature of 525 Degrees F and velocity of 2000 fpm.

THIS ENGINE AND ITS INTEGRAL NSCR CATALYST ARE SCHEDULED TO BE SHUT DOWN AND THIS PERMIT CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

One Waukesha, NG fired internal combustion engine Model No. F817QU and Serial No. 401493, producing 160 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 1520

scf/hr. This equipment powers a Ingersoll Rand Compressor Model No. T 40 and Serial No. T 40 M0455 D89A, rated at 250 PSI.

OPERATING CONDITIONS APPLICABLE TO PERMIT NUMBERS B004158 And B004159:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.6605(b) and District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
[District Rule 1302(C)(2)(a)]

3. The owner/operator must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
[40 CFR 63.6625; District Rule 1302(C)(2)(a)]

4. The owner/operator 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 DSCF) and total hours.
   (c) Keep records of maintenance.
   [District Rule 1302(C)(2)(a)]

5. This unit is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHAP). In the event of conflict between conditions, the referenced regulatory citations, and District Rules, the more stringent requirements shall govern.
[District Rule 1302(C)(2)(a)]

6. Pursuant to 40 CFR 63.6612, since this RICE is less than or equal to 500 brake HP and located at a major source of HAP emissions, the owner/operator shall comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.

7. Pursuant to 40 CFR 63.6602, the owner/operator of this RICE must comply with the emission limitations and other applicable requirements in Table 2c of this subpart. Compliance with the numerical emission limitations established in this subpart shall be based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in 63.6620 and Table 4 to this subpart.

8. Pursuant to the emission limitations for this Non-emergency, non-black start 4SRB stationary RICE 100 < HP < 500; the owner/operator shall limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent 02. [Table 2c to Subpart ZZZZ of Part 63 Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE < 500 HP Located at a Major Source of HAP]

9. The owner/operator of this NSCR equipped engine shall ensure the catalyst inlet temperature is > 750 F and < 1250 F.
[District Rule 1302(C)(2)(a)]

10. The owner/operator shall conduct an initial performance test by April 19, 2014 as required by 40 CFR 63.6610(a).

11. The owner/operator shall submit to the MDAQMD several different notifications and reports, including initial notification, notification of performance test, notification of compliance status (including performance test results), and semiannual compliance reports, including deviation and malfunction reports if applicable.
[40 CFR Part 63 Subpart ZZZZ]

12. The owner/operator shall conduct performance tests using (1) Method 1 or 1A of 40 CFR part 60, appendix A 63.7(d)(1)(i); (a) sampling sites must be located at the inlet and outlet of the control device. The average formaldehyde concentration, as applicable, corrected to 15 percent O2, dry basis, from three test runs shall be less than or equal to the formaldehyde concentration limitation, as applicable.
[Table 4 to Subpart ZZZZ of Part 63 Requirements for Performance Tests]

13. The owner/operator shall submit Semiannual reports in accordance with 40 CFR 63 Subpart 63.6650:
    (a) Company name and address
    (b) Statement of responsible official
    (c) Date of report and beginning and ending dates of reporting period
    (d) If you had a malfunction during the reporting period, the information in 63.6650(c)(4).
    (e) If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period.
    (f) If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in 63.6650(d).

(g) Semiannual Compliance reports shall be postmarked or delivered, no later than July 31, and no later than January 31 or as otherwise allowed in your Title V permit.

14. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.

15. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

C. LOCATED AT PLANT 3 ARE TWO NATURAL GAS IC ENGINE COMPRESSORS WITH EMISSION CONTROLS:

C-1. MDAQMD PERMIT NUMBER B008079, NATURAL GAS IC ENGINE, COMPRESSOR 1, PLANT 3, consisting of: Year of Manufacturer 2002. Engine Exhaust is vented through an Oxidation Catalyst System Permitted as C008086; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); Engine is an existing 4SLB with a site rating of more than 500 brake HP located at a major source of HAP emissions.

NOTE: THIS ENGINE AND ITS ASSOCIATED OXIDATION CATALYST WITH PERMIT NUMBER C008086 ARE SCHEDULED TO BE SHUTDOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 259 feet above sea level.

Stack height is 48 feet and stack diameter is 2.5 feet. Stack exhausts at 25388 cfm at a temperature of 656 Degrees F and velocity of 5172 fpm.

Equipment includes one Natural Gas Electric Vapor Collection System (VCS) shared with Compressor 2 in Plant 3.

One Caterpillar, NG fired internal combustion engine Model No. G3612 and Serial No. TBD, Direct Injected, Turbo Charged, After Cooled, Four-Stroke Lean Burn, producing 3785 bhp with 12 cylinders at 1000 rpm while consuming a maximum of 28230 scf/hr with a heat rating of 28 MMBTUH. This equipment powers a Ariel Compressor Model No. JGC/6 or equivalent and Serial No. TBD, rated at 265 MMcfd @ 813 psig.

C-2. MDAQMD PERMIT NUMBER B008080, NATURAL GAS IC ENGINE, COMPRESSOR 2, PLANT 3, consisting of: Year of Manufacturer 2002. Engine Exhaust is vented through an Oxidation Catalyst System Permitted as C008087; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); Engine is an existing 4SLB with a site rating of more than 500 brake HP located at a major source of HAP emissions.

NOTE: THIS ENGINE AND ITS ASSOCIATED OXIDATION CATALYST WITH PERMIT NUMBER C008087 ARE SCHEDULED TO BE SHUTDOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 260 feet above sea level.

Stack height is 48 feet and stack diameter is 2.5 feet. Stack exhausts at 25388 cfm at a temperature of 656 Degrees F and velocity of 5172 fpm.

Equipment includes one Natural Gas Electric Vapor Collection System (VCS) shared with Compressor 1 in Plant 3.

One Caterpillar, NG fired internal combustion engine Model No. G3612 and Serial No. BKF00193, After Cooled, Direct Injected, Turbo Charged, producing 3785 bhp with 12 cylinders at 1000 rpm while consuming a maximum of 28230 scf/hr. This equipment powers a Ariel Compressor Model No. JGC/6 or equivalent and Serial No. Compressor Serial # F17187, rated at 265 MMcfd @ 813 psig.

Conditions applicable to District Permits B008079 and B008080:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [40 CFR 63.6605(b) and District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
   [District Rule 1302(C)(2)(a)]

For B008079

3. This equipment shall not be operated without venting through the properly operating oxidation catalyst system with valid District Permit C008086 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first

firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

For B008080

3. This equipment shall not be operated without venting through the properly operating oxidation catalyst system with valid District Permit C008087 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

Conditions applicable to District Permits B008079 and B008080, continued:

4. Emissions from this equipment to the atmosphere shall not exceed the following emission limits:
   (a) Hourly rates, verified by compliance tests (initial compliance test in the case of PM10 and formaldehyde):
      i. NOx as NO2 - 5.84 lb/hr and 0.7 gram/bhp-hr (averaged over one hour)
      ii. VOC as CH4 - 1.3 lb/hr and 0.15 gram/bhp-hr
      iii. CO - 5.51 lb/hr and 0.66 gram/bhp-hr
      iv. PM10 - 0.29 lb/hr (front and back half)
      v. Formaldehyde - 0.452 lb/hr

   (b) Annual rates, based on a rolling 12 month summary, verified by fuel use and compliance tests:
      i. NOx - 51,168 pounds/year
      ii. VOC - 10,964 pounds/year
      iii. PM10 - 2494 pounds/year (front and back half)
      iv. CO - 48,244 pounds/year
   [District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

5. Fuel consumption shall be monitored using a periodic monitoring system. The operator shall install, calibrate, maintain and operate this monitoring system according to a District-approved monitoring plan, and it shall be installed prior to initial equipment startup.

   For missing records of fuel usage, the substitute data value shall be the best available estimate of the parameter based on all available process data e.g. load, operating hours etc. The procedure used to estimate the substitute data value shall be documented and records of the procedure used for such estimates shall be maintained.
   [40 CFR 98.35(b)(2), Rule 204; 40 CFR 70.6 (a)(3)(B)]

6. The owner/operator must perform the following compliance tests at least once every twelve (12) months beginning in 2002. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source

test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

The following compliance tests are required:
(a) NOx as NO2 in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 19 and 20)
(b) VOC as CH4 in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 25A or 18)
(c) CO in gm/bhp-hr and lb/hr (measured per USEPA Reference Method 10)
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

7. The owner/operator shall maintain a log for this equipment, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
(a) Fuel consumption in standard cubic feet per calendar month.
(b) Catalyst performance data (inlet temperature).
[District Rule 204; 40 CFR 70.6 (a)(3)(B)]

8. The owner/operator 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 DSCF) and total hours.
[40 CFR 63.6655; District Rule 1302(C)(2)(a)]

9. This unit is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHAP). In the event of conflict between conditions, the referenced regulatory citations, and District Rules, the more stringent requirements shall govern.
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

10. Conditions 10 through 23 are specific to the requirements California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. In the event of conflict between conditions the more stringent requirements shall govern. These do not apply to reciprocating natural gas compressors that operate less than 200 hours per calendar year provided that the owner or operator maintains, and makes available upon request by the ARB Executive Officer or district, a record of the operating hours per calendar year.
[17 CCR 95668 (c)(2)(A)]

11. By January 1, 2018 or within 180 days from installation, critical components used in

conjunction with a critical process unit at facilities located in sectors listed in section 95666 of Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities must be pre-approved by the ARB Executive Officer if owners/operators wish to claim any critical component exemptions available under this subarticle. Critical components that have been designated as critical under an existing local air district leak detection and repair program as of January 1, 2018 are not subject the critical component requirements specified in this subarticle. [17 CCR 95670(a)]

Owners/operators must provide sufficient documentation demonstrating that a critical component is required as part of a critical process unit and that shutting down the critical component or process unit would impact safety or reliability of the natural gas system. [17 CCR 95670(b)]

A request for a critical component or process unit approval is made by submitting a record of the component or process unit as specified in Appendix A, Table A3 along with supporting documentation to the ARB at the address listed in section 95673(b) of this subarticle. [17 CCR 95670(c)]

Owners/operators shall maintain, and make available upon request by the ARB or the district staff, a record of all critical components or process units located at the facility as specified in Appendix A, Table A3. [17 CCR 95670(d)]

Each critical component or critical process unit must be identified according to one of the following methods [17 CCR 95670(e)]:

(a) Identify each component using a weatherproof, readily visible tag that indicates it as an ARB approved critical component and includes the date of ARB Executive Officer approval; or,

(b) Provide a diagram or drawing of all critical components or the critical process unit upon request by the ARB Executive Officer and by district staff. Approval of a critical component may be granted only if owners/operators fully comply with this section. The ARB Executive Officer and/or District retain discretion to deny any request for critical component or process unit approval.

[17 CCR 95670(f)]

12. Beginning January 1, 2018, components on driver engines and compressors shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 13 through 20); except for the rod packing component subject to 17 95668(c)(4)(B), which is outlined below:

The compressor rod packing or seal emission flow rate through the rod packing or seal vent stack shall be measured annually by direct measurement (high volume sampling, bagging, calibrated flow measuring instrument) while the compressor is running at normal operating temperature using one of the following methods:

(a) Vent stacks shall be equipped with a meter or instrumentation to measure the rod packing or seal emissions flow rate; or,

(b) Vent stacks shall be equipped with a clearly identified access port installed at a height of no more than six (6) feet above ground level or a permanent support surface for making individual or combined rod packing or seal emission flow rate measurements.

(c) If the measurement is not obtained because the compressor is not operating for the scheduled test date and the remainder of the inspection period, then testing shall be conducted within 7 calendar days of resumed operation. The owner or operator shall maintain, and make available upon request by the ARB Executive Officer, a copy of operating records that document the compressor hours of operation and run dates in order to demonstrate compliance with this requirement.

[17 CCR 95668(c)(4)(A)&(B)]

13. Beginning January 1, 2018, all components, including components found on tanks, separators, wells, and pressure vessels not identified in 17 CCR 95669(b) shall be inspected and repaired as follows. The ARB Executive Officer may perform inspections at facilities at any time to determine compliance with the requirements specified. [17 CCR 95669(c)&(d)]

Except for inaccessible or unsafe to monitor components, the owner/operator shall audio-visually inspect (by hearing and by sight) all hatches, pressure-relief valves, well casings, stuffing boxes, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours; and, the owner/operator shall audio-visually inspect all pipes for leaks or indications of leaks at least once every 12 months. [17 CCR 95669(e)]

Any audio-visual inspection specified above that indicates a leak that cannot be repaired within 24 hours shall be tested using US EPA Reference Method 21 (October 1, 2017) within 24 hours after initial leak detection, and the leak shall be repaired in accordance with the repair timeframes specified:

(a) For leaks detected during normal business hours, the leak measurement shall be performed within 24 hours. For leaks detected after normal business hours or on a weekend or holiday, the deadline is shifted to the end of the next normal business day.

(b) Any leaks measured above the minimum leak threshold shall be successfully repaired within the timeframes specified.

[17 CCR 95669(f)]

14. At least once each calendar quarter, all components shall be tested for leaks of total hydrocarbons in units of parts per million volume (ppmv) calibrated as methane in accordance with US EPA Reference Method 21 (October 1, 2017) excluding the use of PID instruments.

Optical Gas Imaging (OGI) instruments may be used as a leak screening device, but may not be used in place of US EPA Reference Method 21 (October 1, 2017) during quarterly leak inspections, provided they are approved for use by the ARB Executive Officer and

used by a technician with a certification or training in infrared theory, infrared inspections, and heat transfer principles (e.g., Level II Thermography or equivalent training); and, all leaks detected with the use of an OGI instrument shall be measured using US EPA Reference Method 21 (October 1, 2017) within two calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in this subarticle.

All inaccessible or unsafe to monitor components shall be inspected at least once annually using US EPA Reference Method 21 (October 1, 2017).
[17 CCR 95669(g)]

15. On or after January 1, 2020, any component with a leak concentration measured above the following standards shall be repaired within the time period specified:
    (a) Leaks with measured total hydrocarbon concentrations greater than or equal to 1,000 ppmv but not greater than 9,999 ppmv shall be successfully repaired or removed from service within 14 calendar days of initial leak detection.
    (b) Leaks with measured total hydrocarbon concentrations greater than or equal to 10,000 ppmv but not greater than 49,999 ppmv shall be successfully repaired or removed from service within five (5) calendar days of initial leak detection.
    (c) Leaks with measured total hydrocarbon concentrations greater than or equal to 50,000 ppmv shall be successfully repaired or removed from service within two (2) calendar days of initial leak detection.
    (d) Critical components or critical process units shall be successfully repaired by the end of the next process shutdown or within 12 months from the date of initial leak detection, whichever is sooner.

    A delay of repair may be granted by the ARB Executive Officer under the following conditions:
        (i) The owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days from the dates specified above by which repairs must be made, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.
        (ii) A gas service utility can provide documentation that a system has been temporarily classified as critical to reliable public gas system operation as ordered by the utility's gas control office. [17 CCR 95669(i)]

On or after January 1, 2020, no facility shall exceed the number of allowable leaks listed below during an ARB Executive Officer or district inspection as determined in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments [17 CCR 95669(o)(2)&(3)]:

Leak Threshold	200 or Less Components	More than 200 Components
1,000-9,999 ppmv	5	2% of total inspected

10,000-49,999 ppmv	2	1% of total inspected
50,000 ppmv or greater	0	0

16. The failure of an owner/operator to repair leaks within the timeframes specified, during any inspection period, shall constitute a violation. Leaks discovered during an operator-conducted inspection shall not constitute a violation if the leaking components are repaired within the timeframes.
[17 CCR 95669(o)(4)&(5)]

17. Upon detection of a component with a leak concentration measured above the standards specified, the owner/operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the component until all of the following conditions are met:
    (a) The leaking component has been successfully repaired or replaced; and,
    (b) The component has been re-inspected and measured below the lowest standard specified for the inspection year when measured in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments.
    (c) Tags shall be removed from components following successful repair.
[17 CCR 95669(j)]

18. Owner/operator shall maintain, and make available upon request by the ARB Executive Officer or district, a record of all leaks found at the facility as specified in Appendix A, Tables A4 and A5, and shall report the results to ARB and the district once per calendar year as specified in section 17 CCR 95673.
[17 CCR 95669(k)]

19. Additional Leak Detection and Repair Requirements:

    Hatches shall remain closed at all times except during sampling, adding process material, or attended maintenance operations. [17 CCR 95669(l)]

    Open-ended lines and valves located at the end of lines shall be sealed with a blind flange, plug, cap or a second closed valve, at all times except during operations requiring liquid or gaseous process fluid flow through the open-ended line. Open-ended lines do not include vent stacks used to vent natural gas from equipment and cannot be sealed for safety reasons. Open-ended lines shall be repaired as follows [17 CCR 95669(m)]:
    (a) Open-ended lines that are not capped or sealed shall be capped or sealed within 14 calendar days from the date of initial inspection.
    (b) Open-ended lines that are capped or sealed and found leaking shall be repaired in accordance with the timeframes specified in 17 CCR 95669(h) and 95669(i).

    Components or component parts which incur five (5) repair actions within a continuous 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21 (October 1, 2017), to determine that the component is below the minimum leak threshold. A record of the

replacement must be maintained in a log at the facility, and shall be made available upon request by the ARB Executive Officer or district. [17 CCR 95669(n)]

20. Beginning January 1, 2019, compressor vent stacks used to vent rod packing or seal emissions shall be controlled with the use of a vapor collection system as specified in 17 CCR 95671 (as outlined by condition 21, below); or, a compressor with a rod packing or seal with a measured emission flow rate greater than two (2) standard cubic feet per minute (scfm), or a combined rod packing or seal emission flow rate greater than the number of compression cylinders multiplied by two (2) scfm, shall be successfully repaired within 30 calendar days from the date of the initial emission flow rate measurement.

    A delay of repair may be granted by the ARB Executive Officer if the owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered.

    A delay of repair to obtain parts or equipment shall not exceed 30 calendar days, or 60 days from the date from of the initial measurement, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.

    A reciprocating natural gas compressor with a rod packing or seal emission flow rate measured above the standard specified in 17 CCR 95668(c)(4)(D) (as outlined above) and which has been approved by the ARB Executive Officer as a critical component, shall be successfully repaired by the end of the next scheduled process shutdown or within 12 months from the date of the initial flow rate measurement, whichever is sooner. [17 CCR 95668 - Standards, section (c)(4)(C),(D)&(F) Reciprocating Natural Gas Compressors]

21. Beginning January 1, 2019, the following requirements apply to equipment at facilities located in sectors listed in 17 CCR 95666 that must be controlled with the use of a vapor collection system and control device as a result of the requirements specified in section 95668 of this subarticle:

    The vapor collection system shall direct the collected vapors to one of the following:
    (a) Sales gas system; or,
    (b) Fuel gas system; or,
    (c) Gas disposal well not currently under review by the Division of Oil and Gas and Geothermal Resources.

    [17 CCR 95671(b)]

    If no sales gas system, fuel gas system, or gas disposal well specified above is available at the facility, the owner or operator must control the collected vapors with either:
    (a) A non-destructive vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not result in emissions of nitrogen oxides (NOx); or,

(b) A vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not generate more than 15 parts per million volume (ppmv) NOx when measured at 3 percent oxygen and does not require the use of supplemental fuel gas, other than gas required for a pilot burner, to operate.
[17 CCR 95671(d)]

If the collected vapors cannot be controlled as specified in herein, the equipment subject to the vapor collection and control requirements may not be used or installed and must be removed from service by January 1, 2019, and circulation tanks may not be used and must be removed from service by January 1, 2020. [17 CCR 95671(e)]

Vapor collection systems and control devices are allowed to be taken out of service for up to 30 calendar days per calendar year for performing maintenance. A time extension to perform maintenance not to exceed 14 calendar days per calendar year may be granted by the ARB Executive Officer. The owner or operator is responsible for maintaining a record of the number of calendar days per calendar year that the vapor collection system or vapor control device is out of service and shall provide a record of such activity at the request of the ARB Executive Officer. If an alternate vapor control device compliant with this section is installed prior to conducting maintenance and the vapor collection and control system continues to collect and control vapors during the maintenance operation consistent with the applicable standards specified in section 95671, the event does not count towards the 30-calendar day limit. Vapor collection system and control device shutdowns that result from utility power outages are not subject to enforcement action provided the equipment resumes normal operation as soon as normal utility power is restored. Vapor collection system and control device shutdowns that result from utility power outages do not count towards the 30-calendar day limit for maintenance.
[17 CCR 95671(f)]

22. The owner/operator shall maintain the following records for this equipment to comply with Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. These records must be made available to ARB or district staff upon request.

For Reciprocating Natural Gas Compressors [17 CCR 95672 (a)(5-8)]:

(a) Maintain, for at least five years from the date of each emissions flow rate measurement, a record of each rod packing emission flow rate measurement as specified in Appendix A, Table A7.
(b) Maintain, for at least one calendar year, a record that documents the date(s) and hours of operation a compressor is operated in order to demonstrate compliance with the rod packing leak concentration or emission flow rate measurement in the event that the compressor is not operating during a scheduled inspection.
(c) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

For Leak Detection and Repair [17 CCR 95672 (a)(17-21)]:

(d) Maintain, for at least five years from each inspection, a record of each leak

detection and repair inspection as specified in Appendix A Table A4.

(e) Maintain, for at least five years from the date of each inspection, a component leak concentration and repair form for each inspection as specified in Appendix A Table A5.

(f) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

(g) Maintain gas service utility records that demonstrate that a system has been temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.

For Vapor Collection System and Vapor Controls [17 CCR 95672 (a)(22)]:

(h) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

23. Beginning January 1, 2018, the owner/operator shall report the following information to ARB and the District by July 1st of each calendar year unless otherwise specified:

For Reciprocating Natural Gas Compressors [17 CCR 95673 (a)(2-3)]:

(a) Annually, report the emission flow rate measurement for each rod packing or seal as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95673 (a)(12-13)]:

(b) Annually, report the results of each leak detection and repair inspection conducted during the calendar year as specified in Appendix A, Table A4.

(c) Annually, report the initial and final leak concentration measurements for components measured above the minimum allowable leak threshold as specified in Appendix A Table A5. Reports shall be submitted as follows:

1. Reports made to the California Air Resources Board (CARB) shall be submitted electronically through their Cal e-GGRT Reporting Portal.

2. Submissions to the District may be submitted electronically to reporting@mdaqmd.ca.gov with the subject line "O&G GHG Regulation Reporting", or mailed to:
Mojave Desert AQMD
Attention: O&G GHG Regulation Reporting
14306 Park Avenue Victorville, CA 92392

Note: It is anticipated that Districts will be able to retrieve Reports through the Cal-eGGRT portal sometime in 2020. Once that functionality is available, report submittals to the District will no longer be required.

24. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

D. LOCATED AT CENTRAL SUPPORTING, ARE FOUR NATURAL GAS IC ENGINE POWERED GENERATORS WITH EMISSION CONTROLS:

D-1. MDAQMD PERMIT NUMBER B008081, NATURAL GAS IC ENGINE, GENERATOR 1, CENTRAL SUPPORTING, consisting of: Year of Manufacturer TBD. Engine is Subject to RICE NESHAP 40 CFR Part 63 Subpart ZZZZ for engines located at a HAP Major Source. Engine Exhaust is vented through an NSCR Permitted as C008089.

NOTE: THIS ENGINE AND ITS ASSOCIATED 3-WAY CATALYST, PERMITTED AS C008089, ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 257 feet above sea level.

Stack height is 20 feet and stack diameter is 1.0 feet. Stack exhausts at 1158 cfm at a temperature of 635 Degrees F and velocity of 1474 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3412 SI TA and Serial No. 7DB01742, Turbo Charged, After Cooled, Four-Stroke Rich Burn, producing 400 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 3774 scf/hr with a heat input rating of 4 MMBTUH. This equipment powers a Magnetek Generator Model No. A26056001 and Serial No. 14630-01, rated at 275 kW(e).

D-2. MDAQMD PERMIT NUMBER B008082, NATURAL GAS IC ENGINE, GENERATOR 2, CENTRAL SUPPORTING, consisting of: Year of Manufacturer TBD. Engine is Subject to RICE NESHAP 40 CFR Part 63 Subpart ZZZZ for engines located at a HAP Major Source. Engine Exhaust is vented through an NSCR Permitted as C008090.

NOTE: THIS ENGINE AND ITS ASSOCIATED 3-WAY CATALYST, PERMITTED AS C008090, ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 260 feet above sea level.

Stack height is 20 feet and stack diameter is 1.0 feet. Stack exhausts at 1158 cfm at a temperature of 635 Degrees F and velocity of 1474 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3412 SI TA and Serial No. 7DB01741, Turbo Charged, After Cooled, Four-Stroke Rich Burn, producing 400 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 3774 scf/hr with a heat input rating of 4 MMBTUH. This equipment powers a Magnetek Generator Model No. A26056001 and Serial No. 14630-02, rated at 275 kW(e).

D-3. MDAQMD PERMIT NUMBER B008083, NATURAL GAS IC ENGINE, GENERATOR 3, CENTRAL SUPPORTING, consisting of: Year of Manufacturer TBD. Engine is Subject to

RICE NESHAP 40 CFR Part 63 Subpart ZZZZ for engines located at a HAP Major Source. Engine Exhaust is vented through an NSCR Permitted as C008091.

NOTE: THIS ENGINE AND ITS ASSOCIATED 3-WAY CATALYST, PERMITTED AS C008091, ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 257 feet above sea level.

Stack height is 20 feet and stack diameter is 1.0 feet. Stack exhausts at 1158 cfm at a temperature of 635 Degrees F and velocity of 1474 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3412 SI TA and Serial No. 7DB01749, Turbo Charged, After Cooled, producing 400 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 3774 scf/hr with a heat input rating of 4 MMBTUH. This This equipment powers a Magnetek Generator Model No. A26056001 and Serial No. 14630-03, rated at 275 kW(e).

D-4. MDAQMD PERMIT NUMBER B008084, NATURAL GAS IC ENGINE, GENERATOR 4, CENTRAL SUPPORTING, consisting of: Year of Manufacturer TBD. Engine is Subject to RICE NESHAP 40 CFR Part 63 Subpart ZZZZ for engines located at a HAP Major Source. Engine Exhaust is vented through an NSCR Permitted as C008092.

NOTE: THIS ENGINE AND ITS ASSOCIATED 3-WAY CATALYST, PERMITTED AS C008092, ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 257 feet above sea level.

Stack height is 20 feet and stack diameter is 1.0 feet. Stack exhausts at 1158 cfm at a temperature of 635 Degrees F and velocity of 1474 fpm.

One Caterpillar, NG fired internal combustion engine Model No. G3412 SI TA and Serial No. 7DB01750, Turbo Charged, After Cooled, Four-Stroke Rich Burn, producing 400 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 3774 scf/hr with a heat input rating of 4 MMBTUH. This equipment powers a Magnetek Generator Model No. A26056001 and Serial No. 44630-04, rated at 275 kW(e).

Conditions applicable to District Permits B008081, B008082, B008083, and B008084:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.

[40 CFR 63.6605(b) and District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve-month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
[District Rule 1302(C)(2)(a)]

For Permit B008081:

3. This equipment shall not be operated without venting through the properly operating non-selective catalytic reduction (NSCR) system with valid District Permit C008089 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

For Permit B008082:

3. This equipment shall not be operated without venting through the properly operating non-selective catalytic reduction (NSCR) system with valid District Permit C008090 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

For Permit B008083:

3. This equipment shall not be operated without venting through the properly operating non-selective catalytic reduction (NSCR) system with valid District Permit C008091 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

For Permit B008084:

3. This equipment shall not be operated without venting through the properly operating non-selective catalytic reduction (NSCR) system with valid District Permit C008092 (this requirement shall not apply during a catalyst break-in period not to exceed thirty days beginning with the first firing of fuel in this unit).
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

Conditions applicable to District Permits: B008081, B008082, B008083, and B008084, continued:

4. Emissions from this equipment to the atmosphere shall not exceed the following emission limits:

(a) Hourly rates, verified by compliance tests (initial compliance test in the case of PM10 and formaldehyde):
  i. NOx as NO2 - 0.27 lb/hr and 0.3 gram/bhp-hr (averaged over one hour)
  ii. VOC as CH4 - 0.13 lb/hr and 0.15 gram/bhp-hr
  iii. CO - 0.58 lb/hr and 0.66 gram/bhp-hr
  iv. PM10 - 0.074 lb/hr (front and back half)
  v. Formaldehyde - 0.017 lb/hr

(b) Annual rates, based on a rolling 12 month summary, verified by fuel use and compliance tests:
  i. NOx - 2317 pounds/year
  ii. VOC - 1159 pounds/year
  iii. PM10 - 648 pounds/year (front and back half)
  iv. CO - 5100 pounds/year

[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

5. Fuel consumption shall be monitored using a periodic monitoring system. The operator shall install, calibrate, maintain and operate this monitoring system according to a District-approved monitoring plan, and it shall be installed prior to initial equipment startup.

For missing records of fuel usage, the substitute data value shall be the best available estimate of the parameter based on all available process data e.g. load, operating hours etc. The procedure used to estimate the substitute data value shall be documented and records of the procedure used for such estimates shall be maintained. [40 CFR 98.35(b)(2)].
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

6. The owner/operator must perform the following compliance tests at least once every twelve (12) months beginning in 2002. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov

The following compliance tests are required:
(a) NOx as NO2 in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 19 and 20)
(b) VOC as CH4 in gm/bhp-hr and lb/hr (measured per USEPA Reference Methods 25A or 18)
(c) CO in gm/bhp-hr and lb/hr (measured per USEPA Reference Method 10)

[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

7. The o/o shall maintain a log for this equipment, which, at a minimum, contains the information specified below. This log shall be maintained current and on-site for a minimum of five (5) years and shall be provided to District personnel on request:
   (a) Fuel consumption in standard cubic feet per calendar month.
   (b) Catalyst performance data (inlet temperature and inlet oxygen content, or as specified by the District-approved Parametric Monitoring Protocol).
   [District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

8. The owner/operator must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.
   [40 CFR 63.6625; District Rule 1302(C)(2)(a)]

9. The o/o 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. Calendar year operation in terms of fuel consumption (in DSCF) and total hours.
   [40 CFR 63.6655; District Rule 1302(C)(2)(a)]

10. This unit is subject to the requirements of 40 CFR 63 Subpart ZZZZ (RICE NESHAP). In the event of conflict between conditions, referenced regulatory citations, and District Rules, the more stringent requirements shall govern.
    [District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

11. Pursuant to 40 CFR 63.6612, since this RICE is less than or equal to 500 brake HP and located at a major source of HAP emissions, the owner/operator shall comply with the applicable emission limitations, operating limitations, and other requirements no later than October 19, 2013.
    [40 CFR 63 Subpart 63.6595]

12. Pursuant to the emission limitations for this Non-emergency, non-black start 4SRB stationary RICE 100 < HP < 500; the owner/operator shall limit concentration of formaldehyde in the stationary RICE exhaust to 10.3 ppmvd or less at 15 percent 02.
    [Table 2c to Subpart ZZZZ of 40 CFR 63 Requirements for Existing Compression Ignition Stationary RICE Located at a Major Source of HAP Emissions and Existing Spark Ignition Stationary RICE <500 HP Located at a Major Source of HAP]

13. The owner/operator of this NSCR equipped engine shall ensure the catalyst inlet temperature is > 750 F and < 1250 F.
    [District Rule 1302(C)(2)(a)]

14. The owner/operator shall conduct an initial performance test by April 19, 2014 as required by 40 CFR 63.6610(a).

15. The owner/operator shall submit to the MDAQMD several different notifications and reports, including initial notification, notification of performance test, notification of compliance status (including performance test results), and semiannual compliance reports, including deviation and malfunction reports if applicable.
[40 CFR 63, Subpart ZZZZ]

16. The owner/operator shall conduct performance tests using (1) Method 1 or 1A of 40 CFR part 60, appendix A 63.7(d)(1)(i); (a) sampling sites must be located at the inlet and outlet of the control device. The average formaldehyde concentration, as applicable, corrected to 15 percent O2, dry basis, from three test runs shall be less than or equal to the formaldehyde concentration limitation, as applicable.
[Table 4 to Subpart ZZZZ of 40 CFR 63 Requirements for Performance Tests]

17. The owner/operator shall submit Semiannual reports in accordance with 40 CFR 63 Subpart 63.6650:
    (a) Company name and address
    (b) Statement of responsible official
    (c) Date of report and beginning and ending dates of reporting period
    (d) If you had a malfunction during the reporting period, the information in 63.6650(c)(4).e. If there are no deviations from any emission limitations or operating limitations that apply to you, a statement that there were no deviations from the emission limitations or operating limitations during the reporting period.
    (f) If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in 63.6650(d).
    (g) Semiannual Compliance reports shall be postmarked or delivered, no later than July 31, and no later than January 31 or as otherwise allowed in your Title V permit.
    [40 CFR 63 Subpart 63.6650]

18. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

D-5. MDAQMD PERMIT NUMBER B013430, NATURAL GAS POWERED PNEUMATIC DEVICES consisting of: Pneumatic Device means an automation device that uses natural gas, compressed air, or electricity to control a process.

Continuous Low Bleed Pneumatic Devices means the continuous venting of natural gas from a gas powered pneumatic device to the atmosphere. Continuous bleed pneumatic devices must

vent continuously in order to operate.

Intermittent Bleed Pneumatic Devices means the intermittent venting of natural gas from a gas powered pneumatic device to the atmosphere. Intermittent bleed pneumatic devices may vent all or a portion of their supply gas when control action is necessary but do not vent continuously.

Equipment

Capacity	Equipment Description
21	Intermittent Bleed Pneumatic Devices
4	Exempted Tanks (#1-L, Plant Tank #2, #2-L, Plant 2 Tank #2)
12	Exempted Separators (Plant 1 Scrubbers 1-5, Plant 2 Scrubbers 1-5, Plant 2 Large Scrubbers 1&2).

Conditions applicable to District Permit B013430:

1. Conditions 1 through 15 are specific to the requirements California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. In the event of conflict between conditions the more stringent requirements shall govern. [17 CCR 95668 (e)(1)]

2. Beginning January 1, 2019, continuous bleed natural gas pneumatic devices shall not vent natural gas to the atmosphere and shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 6 through 12). [17 CCR 95668(e)(2)]

   Continuous bleed natural gas powered pneumatic devices installed prior to January 1, 2016 may be used provided they meet all of the following requirements as of January 1, 2019:

   (a) No device shall vent natural gas at a rate greater than six (6) standard cubic feet per hour (scfh) when the device is idle and not actuating.
   (b) All devices are clearly marked with a permanent tag that identifies the natural gas flow rate as less than or equal to six (6) scfh.
   (c) All devices are tested annually using a direct measurement method (high volume sampling, bagging, calibrated flow measuring instrument); and,
   (d) Any device with a measured emissions flow rate greater than six (6) scfh shall be successfully repaired within 14 calendar days from the date of the initial emission flow rate measurement.

   (e) The owner/operator shall maintain, and make available upon request by the ARB Executive Officer and/or District, a record of the flow rate measurement as specified in Appendix A, Table A7 and shall report the result to ARB and the District once per calendar year as specified in section 95673 of this subarticle. [17

CCR 95668(e)(2)(A)]

3. Beginning January 1, 2018, intermittent bleed natural gas powered pneumatic devices shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 6 through 12) when the device is idle and not controlling. [17 CCR 95668(e)(3)]

4. Beginning January 1, 2019, natural gas powered pneumatic pumps shall not vent natural gas to the atmosphere and shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 6 through 12) when the device is idle and not controlling. [17 CCR 95668(e)(4)]

5. Continuous bleed natural gas powered pneumatic devices and pumps which need to be replaced or retrofitted to comply with the requirements specified shall do so by one of the following methods:
   (a) Collect all vented natural gas with the use of a vapor collection system as specified in 17 CCR 95671 (as outlined by condition 13, below); or,
   (b) Use compressed air or electricity to operate.
   [17 CCR 95668(e)(5)]

6. Beginning January 1, 2018, all components, including components found on tanks, separators, wells, and pressure vessels not identified in 17 CCR 95669(b) shall be inspected and repaired as follows. The ARB Executive Officer may perform inspections at facilities at any time to determine compliance with the requirements specified. [17 CCR 95669(c)&(d)]

   Except for inaccessible or unsafe to monitor components, the owner/operator shall audio-visually inspect (by hearing and by sight) all hatches, pressure-relief valves, well casings, stuffing boxes, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours; and, the owner/operator shall audio-visually inspect all pipes for leaks or indications of leaks at least once every 12 months. [17 CCR 95669(e)]

   Any audio-visual inspection specified above that indicates a leak that cannot be repaired within 24 hours shall be tested using US EPA Reference Method 21 (October 1, 2017) within 24 hours after initial leak detection, and the leak shall be repaired in accordance with the repair timeframes specified:
   (a) For leaks detected during normal business hours, the leak measurement shall be performed within 24 hours. For leaks detected after normal business hours or on a weekend or holiday, the deadline is shifted to the end of the next normal business day.
   (b) Any leaks measured above the minimum leak threshold shall be successfully repaired within the timeframes specified. [17 CCR 95669(f)]

7. At least once each calendar quarter, all components shall be tested for leaks of total

hydrocarbons in units of parts per million volume (ppmv) calibrated as methane in accordance with US EPA Reference Method 21 (October 1, 2017) excluding the use of PID instruments.

Optical Gas Imaging (OGI) instruments may be used as a leak screening device, but may not be used in place of US EPA Reference Method 21 (October 1, 2017) during quarterly leak inspections, provided they are approved for use by the ARB Executive Officer and used by a technician with a certification or training in infrared theory, infrared inspections, and heat transfer principles (e.g., Level II Thermography or equivalent training); and, all leaks detected with the use of an OGI instrument shall be measured using US EPA Reference Method 21 (October 1, 2017) within two calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in this subarticle.

All inaccessible or unsafe to monitor components shall be inspected at least once annually using US EPA Reference Method 21 (October 1, 2017). [17 CCR 95669(g)]

8. On or after January 1, 2020, any component with a leak concentration measured above the following standards shall be repaired within the time period specified:
   (a) Leaks with measured total hydrocarbon concentrations greater than or equal to 1,000 ppmv but not greater than 9,999 ppmv shall be successfully repaired or removed from service within 14 calendar days of initial leak detection.
   (b) Leaks with measured total hydrocarbon concentrations greater than or equal to 10,000 ppmv but not greater than 49,999 ppmv shall be successfully repaired or removed from service within five (5) calendar days of initial leak detection.
   (c) Leaks with measured total hydrocarbon concentrations greater than or equal to 50,000 ppmv shall be successfully repaired or removed from service within two (2) calendar days of initial leak detection.
   (d) Critical components or critical process units shall be successfully repaired by the end of the next process shutdown or within 12 months from the date of initial leak detection, whichever is sooner.

   A delay of repair may be granted by the ARB Executive Officer under the following conditions:
      (i) The owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days from the dates specified above by which repairs must be made, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.
      (ii) A gas service utility can provide documentation that a system has been temporarily classified as critical to reliable public gas system operation as ordered by the utility's gas control office.
      [17 CCR 95669(i)]

On or after January 1, 2020, no facility shall exceed the number of allowable leaks listed below during an ARB Executive Officer or district inspection as determined in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments [17 CCR 95669(o)(2)&(3)]:

Leak Threshold	200 or Less Components	More than 200 Components
1,000-9,999 ppmv	5	2% of total inspected
10,000-49,999 ppmv	2	1% of total inspected
50,000 ppmv or greater	0	0

9. The failure of an owner/operator to repair leaks within the timeframes specified, during any inspection period, shall constitute a violation. Except for the fourth (4th) quarterly inspection of each calendar year, leaks discovered during an operator-conducted inspection shall not constitute a violation if the leaking components are repaired within the timeframes. [17 CCR 95669(o)(4)&(5)]

10. Upon detection of a component with a leak concentration measured above the standards specified, the owner/operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the component until all of the following conditions are met:
    (a) The leaking component has been successfully repaired or replaced; and,
    (b) The component has been re-inspected and measured below the lowest standard specified for the inspection year when measured in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments.
    (c) Tags shall be removed from components following successful repair. [17 CCR 95669(j)]

11. Owner/operator shall maintain, and make available upon request by the ARB Executive Officer or district, a record of all leaks found at the facility as specified in Appendix A, Tables A4 and A5, and shall report the results to ARB and the district once per calendar year as specified in section 17 CCR 95673. [17 CCR 95669(k)]

12. Additional Leak Detection and Repair Requirements:

    Hatches shall remain closed at all times except during sampling, adding process material, or attended maintenance operations. [17 CCR 95669(l)]

    Open-ended lines and valves located at the end of lines shall be sealed with a blind flange, plug, cap or a second closed valve, at all times except during operations requiring liquid or gaseous process fluid flow through the open-ended line. Open-ended lines do not include vent stacks used to vent natural gas from equipment and cannot be sealed for safety reasons. Open-ended lines shall be repaired as follows [17 CCR 95669(m)]:

(a) Open-ended lines that are not capped or sealed shall be capped or sealed within 14 calendar days from the date of initial inspection.
(b) Open-ended lines that are capped or sealed and found leaking shall be repaired in accordance with the timeframes specified in 17 CCR 95669(h) and 95669(i).

Components or component parts which incur five (5) repair actions within a continuous 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21 (October 1, 2017), to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the ARB Executive Officer or district. [17 CCR 95669(n)]

13. Beginning January 1, 2019, the following requirements apply to equipment at facilities located in sectors listed in 17 CCR 95666 that must be controlled with the use of a vapor collection system and control device as a result of the requirements specified in section 95668 of this subarticle:

The vapor collection system shall direct the collected vapors to one of the following:
(a) Sales gas system; or,
(b) Fuel gas system; or,
(c) Gas disposal well not currently under review by the Division of Oil and Gas and Geothermal Resources. [17 CCR 95671(b)]

If no sales gas system, fuel gas system, or gas disposal well specified above is available at the facility, the owner or operator must control the collected vapors with either:
(a) A non-destructive vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not result in emissions of nitrogen oxides (NOx); or,
(b) A vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not generate more than 15 parts per million volume (ppmv) NOx when measured at 3 percent oxygen and does not require the use of supplemental fuel gas, other than gas required for a pilot burner, to operate. [17 CCR 95671(d)]

If the collected vapors cannot be controlled as specified in herein, the equipment subject to the vapor collection and control requirements may not be used or installed and must be removed from service by January 1, 2019, and circulation tanks may not be used and must be removed from service by January 1, 2020. [17 CCR 95671(e)]

Vapor collection systems and control devices are allowed to be taken out of service for up to 30 calendar days per calendar year for performing maintenance. A time extension to perform maintenance not to exceed 14 calendar days per calendar year may be granted by the ARB Executive Officer. The owner or operator is responsible for maintaining a record of the number of calendar days per calendar year that the vapor collection system or vapor control device is out of service and shall provide a record of such activity at the request of the ARB Executive Officer. If an alternate vapor control device compliant with

this section is installed prior to conducting maintenance and the vapor collection and control system continues to collect and control vapors during the maintenance operation consistent with the applicable standards specified in section 95671, the event does not count towards the 30 calendar day limit. Vapor collection system and control device shutdowns that result from utility power outages are not subject to enforcement action provided the equipment resumes normal operation as soon as normal utility power is restored. Vapor collection system and control device shutdowns that result from utility power outages do not count towards the 30 calendar day limit for maintenance. [17 CCR 95671(f)]

14. The owner/operator shall maintain the following records for this equipment to comply with Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. These records must be made available to ARB or district staff upon request.

For Natural Gas Powered Pneumatic Devices [17 CCR 95672 (a)(12)]:

(a) Maintain, for at least five years from the date of each emissions flow rate measurement, a record of the emission flow rate measurement as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95672 (a)(17-21)]:

(b) Maintain, for at least five years from each inspection, a record of each leak detection and repair inspection as specified in Appendix A Table A4.

(c) Maintain, for at least five years from the date of each inspection, a component leak concentration and repair form for each inspection as specified in Appendix A Table A5.

(d) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

(e) Maintain gas service utility records that demonstrate that a system has been temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.

For Vapor Collection System and Vapor Controls [17 CCR 95672 (a)(22)]:
f. Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

15. Beginning January 1, 2018, the owner/operator shall report the following information to ARB and the District by July 1st of each calendar year unless otherwise specified:

For Natural Gas Powered Pneumatic Devices [17 CCR 95673 (a)(5)]:

(a) Annually, report the emission flow rate measurement for each pneumatic device with a designed emission flow rate of less than six (6) scfh as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95673 (a)(12-13)]:

(b) Annually, report the results of each leak detection and repair inspection conducted

during the calendar year as specified in Appendix A, Table A4.

(c) Annually, report the initial and final leak concentration measurements for components measured above the minimum allowable leak threshold as specified in Appendix A Table A5.

Reports shall be submitted as follows:

1. Reports made to the California Air Resources Board (CARB) shall be submitted electronically through their Cal e-GGRT Reporting Portal.

2. Submissions to the District may be submitted electronically to reporting@mdaqmd.ca.gov with the subject line "O&G GHG Regulation Reporting", or mailed to:
Mojave Desert AQMD
Attention: O&G GHG Regulation Reporting
14306 Park Avenue
Victorville, CA 92392

Note: It is anticipated that Districts will be able to retrieve Reports through the Cal-eGGRT portal sometime in 2020. Once that functionality is available, Report submittals to the District will no longer be required.

16. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

E. LOCATED AS DESCRIBED ARE MISCELLANEOUS FACILITY ANCILLARY SUPPORT EQUIPMENT AS DESCRIBED:
Two (2) 1180-gallon aboveground pipeline waste liquid storage tanks; one (1) 5300 gallon waste oil storage tank; two (2) 1200 gallon aboveground transfer oil storage tanks in SW corner of Plant 1 and in SE corner of Plant 2; and one (1) non-retail gasoline dispensing facility:

E-1. MDAQMD PERMIT NUMBER N004119, GASOLINE DISPENSING FACILITY (NON-RETAIL), LOCATED ADJACENT TO THE PARKING GARAGE, consisting of: Equipment Elevation is 261 feet above sea level.

FUEL TANKS

Tank No.	Material Stored	Volume (US Gallons)	Above/Underground
1	87U	6,000	Underground

DISPENSING EQUIPMENT

Fuel Type	Quantity
87U	1

VAPOR CONTROL EQUIPMENT

Type	Equipment Name	Compliance
PI	DP	VR-101
PII	VST	VR-203

1. The owner/operator shall conspicuously post, in the gasoline dispensing area, the operating instructions and the district's toll-free telephone number for complaints (1-800-635-4617). [District Rule 461 - Gasoline Transfer and Dispensing]

2. The owner/operator shall maintain a log of all inspections, maintenance and repairs, and throughput on equipment. Such logs or records shall be maintained at the facility for at least two (2) years and shall be available to the District upon request.
[District Rule 461 - Gasoline Transfer and Dispensing]

3. Any modifications or changes to the piping, control fittings, or configurations of the vapor recovery system require prior approval from the District.

   ATC Only: The District must be notified when installation of all piping and control fittings is completed. Vapor control piping and fittings must remain exposed until the District has inspected the installation or given approval to complete backfill. Notification may be made via phone, or via email request to reporting@mdaqmd.ca.gov.
[District Regulation XIII - NSR]

4. The Enhanced Vapor Recovery (EVR), Phase I and II Vapor Recovery System must be tested in accordance with the requirements of CARB Executive Orders, VR-101 and Order VR-203, no later than 60 days after initial startup, and at least once every twelve (12) months using the latest adopted version of the required test procedures.

   The District must be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests. Testing notifications and testing results may be sent to VaporRecoveryTesting@mdaqmd.ca.gov
[District Rule 461 - Gasoline Transfer and Dispensing, Executive Orders VR-101 and VR-203]

5. The annual throughput of gasoline shall not exceed 600,000 gallons per year. Throughput records shall be kept on site and available to District personnel upon request, and annual throughput for the previous calendar year shall be provided to the District not later than the end of February of each year. Before this annual throughput can be increased the facility is required to submit to the District an application to modify the permit which may require a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.
[District Rule 1320 - NSR for Toxic Air Contaminants; District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]

6. Enhanced Vapor Recovery (EVR), 2-Point Phase I Vapor Control Equipment must be

installed and maintained in compliance with CARB Executive Order VR-101. The owner or operator shall perform the required maintenance as specified in ARB-Approved Installation and Maintenance Manual for the Phase I Vapor Recovery System, including PV maintenance, as applicable.
[District Rule 461 - Gasoline Transfer and Dispensing, Executive Order VR-101, 40 CFR 63, Subpart CCCCCC]

7. Enhanced Vapor Recovery (EVR), Phase II Vapor Control Equipment must be installed and maintained in compliance with CARB Executive Order VR-203. The owner or operator shall install, operate and maintain the Phase II Vapor Recovery System as specified in the ARB-approved Installation, Operation and Maintenance Manual for the Phase II Vapor Recovery System.
[District Rule 461 - Gasoline Transfer and Dispensing, Executive Order VR-203, 40 CFR 63, Subpart CCCCCC]

E-2. MDAQMD PERMIT NUMBER T004134, STORAGE TANK, TRANSFER OIL, STORAGE TANK, TRANSFER OIL, SW CORNER OF PLANT 1, consisting of: 1200 gallon transfer oil storage tank, 4 ft H x 8 ft L x 5 ft W.

E-3. MDAQMD PERMIT NUMBER T004135, STORAGE TANK, WASTE OIL, PLANT 1, consisting of: 1180 gallon capacity, 2 ft 10 in H x 13 ft 6 in L x 4 ft W

E-4. MDAQMD PERMIT NUMBER T004136, STORAGE TANK, WASTE OIL, OIL STORAGE AREA, Permit T004136, consisting of: 5300 gallon capacity waste oil storage tank, 7 ft diameter by 25 ft high.

E-5. MDAQMD PERMIT NUMBER T004138, STORAGE TANK, WASTE OIL, PLANT 2, consisting of: 1180 gallon capacity, 2 ft 10 in H x 13 ft 6 in L x 4 ft W

E-6. MDAQMD PERMIT NUMBER T004422, STORAGE TANK, TRANSFER OIL, SE CORNER OF PLANT 2, consisting of: Aboveground 1200 gallon transfer oil storage tank, 4 ft H x 8 ft L x 5 ft W.

Conditions Applicable to Oil Storage Tank Permits: T004134, T004135, T004136, T004138, and T004422:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302(C)(2)(a)]

2. All of the components of this tank including but not limited to tanks, flanges, seals, pumps valves, meters, connectors, and other appurtenant equipment shall be installed,

maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks and excess organic liquid drainage during transfer, storage, and handling operations.
[District Rule 1302 (C)(2)(a)]

3. This tank is limited to storing waste oil generated on-site by So Cal Gas Co.
[District Rule 1302 (C)(2)(a)]

4. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

E-7. MDAQMD PERMIT NUMBER T010103, NATURAL GAS ODORANT STORAGE & INJECTION SYSTEM, Permit T010103, consisting of: A 10,000 gallon odorant tank and related equipment. This system is electrically operated but odorant injection is achieved with a pipeline-pressure driven pump. This permit includes the injection system (odorant control system, odorant metering system, odorant filtering equipment, and related appurtenances).

Stack is 18.0 feet in height and 0.5 feet in diameter. Stack gas temperature is 75 deg F, stack gas flow is 98 cfm, at 500 fpm.

Equipment elevation is 260 feet above sea level.

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302(C)(2)(a)]

2. All of the components of this tank, including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations.
[District Rule 1302(C)(2)(a)]

3. This equipment shall be properly maintained and kept in good operating condition at all times. Owner/Operator shall monitor this system for leaks by conducting periodic leak checks on a daily basis. Daily inspections are conducted M-F (5 days/week) and no case shall 5 days pass without conducting an inspection. Owner/Operator shall comply with District Rule 430 Breakdown Provisions.
[District Rule 1302(C)(2)(a)]

4. This odorant tank and the delivery truck used to fill this tank must be equipped with a Two Point Phase I type vapor recovery system.

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

5. Two Point Phase I type vapor recovery system must be utilized whenever any odorant tank is being filled.
[District Rule 1302(C)(2)(a)]

6. This Odorant tank shall not be filled to greater than 90% of its maximum capacity (to allow for expansion within tank).
[District Rule 1302(C)(2)(a)]

7. Odorant shall not be discharged to the atmosphere during equipment maintenance unless it is vented through a carbon canister.
[District Rule 1302(C)(2)(a)]

8. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

F. LOCATED AT PLANT 4 ARE FOUR NATURAL GAS FIRED COMBUSTION TURBINES POWERING COMPRESSORS:

F-1. MDAQMD PERMIT NUMBER B012852, COMBUSTION TURBINE COMPRESSOR 1, PLANT 4, PHASE I, consisting of: One Siemens-Dresser, natural gas-fired turbine, Model No. SGT-300 and Serial No. TBD, producing 7954 bhp at 12000 rpm while consuming a maximum of 71.83 MMBtu/hr. This turbine is equipped with Dry Low NOx Combustors (DLN), selective catalytic NOx reduction system (SCR) with valid District permit C012862, and VOC and CO oxidation catalyst system with valid District permit C012858. This turbine powers a Siemens-Dresser Compressor Model No. TBD with a mechanical rating of less than 10 MW.

Equipment Elevation is 259 feet above sea level.

Stack is 60 feet high and has a diameter of 7.5 ft. Stack exhausts at 160,000 cfm at a temperature of 780 Degrees F and at a velocity of 18.4 m/s. Note: This turbine compressor will become operational during Phase II of the BCS NSR Project.

F-2. MDAQMD PERMIT NUMBER B012853, COMBUSTION TURBINE COMPRESSOR 2, PLANT 4, PHASE I, consisting of: One Siemens-Dresser, natural gas-fired turbine, Model No. SGT-300 and Serial No. TBD, producing 7954 bhp at 12000 rpm while consuming a maximum of 71.83 MMBtu/hr. This turbine is equipped with Dry Low NOx Combustors (DLN), selective catalytic NOx reduction system (SCR) with valid District permit C012861, and VOC and CO oxidation catalyst system with valid District permit C012857. This turbine powers a Siemens-Dresser Compressor Model No. TBD with a mechanical rating of less than 10 MW.

Equipment Elevation is 259 feet above sea level.

Stack is 60 feet high and has a diameter of 7.5 ft. Stack exhausts at 160,000 cfm at a temperature of 780 Degrees F and at a velocity of 18.4 m/s. Note: This turbine compressor will become operational during Phase II of the BCS NSR Project.

F-3. MDAQMD PERMIT NUMBER B012854, COMBUSTION TURBINE COMPRESSOR 3, PLANT 4, PHASE II, consisting of: One Siemens-Dresser, natural gas-fired turbine, Model No. SGT-300 and Serial No. TBD, producing 7954 bhp at 12000 rpm while consuming a maximum of 71.83 MMBtu/hr. This turbine is equipped with Dry Low NOx Combustors (DLN), selective catalytic NOx reduction system (SCR) with valid District permit C012862, and VOC and CO oxidation catalyst system with valid District permit C012858. This turbine powers a Siemens-Dresser Compressor Model No. TBD with a mechanical rating of less than 10 MW.

Equipment Elevation is 259 feet above sea level. Stack is 60 feet high and has a diameter of 7.5 ft.

Stack exhausts at 160,000 cfm at a temperature of 780 Degrees F and at a velocity of 18.4 m/s. Note: This turbine compressor will become operational during Phase II of the BCS NSR Project.

F-4. MDAQMD PERMIT NUMBER B012855, COMBUSTION TURBINE COMPRESSOR 4, PLANT 4, PHASE II, consisting of: One Siemens-Dresser, natural gas-fired turbine, Model No. SGT-300 and Serial No. TBD, producing 7954 bhp at 12000 rpm while consuming a maximum of 71.83 MMBtu/hr. This turbine is equipped with Dry Low NOx Combustors (DLN), selective catalytic NOx reduction system (SCR) with valid District permit C012863, and VOC and CO oxidation catalyst system with valid District permit C012859. This turbine powers a Siemens-Dresser Compressor Model No. TBD with a mechanical rating of less than 10 MW.

Equipment Elevation is 259 feet above sea level. Stack is 60 feet high and has a diameter of 7.5 ft.

Stack exhausts at 160,000 cfm at a temperature of 780 Degrees F and at a velocity of 18.4 m/s. Note: This turbine compressor will become operational during Phase II of the BCS NSR Project.

Emission Limits applicable to each of the four Gas Turbines, permitted as B012852, B012853, B012854, and B012855:

Pollutant	Limit at Max Load	Oxygen Level Correction
CO	8 ppmvd	@15% O2
NOX	8 ppmvd	@15% O2 (steady-state)
NOX	12 ppmvd	@15% O2 (transitional)
VOC	4.3 ppmvd	@15% O2

Conditions applicable to Turbines Permits: B012852, B012853, B013854, and B013855:

1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions.

Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve-month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
[District Rules 431-Sulfur Content of Fuel, and 1302 (C)(2)(a) - BACT]

3. The owner/operator shall maintain an operations log (in either electronic or hardcopy format) on a daily basis for this equipment, which contains at a minimum the following information. Log must be maintained on-site for a minimum of five (5) years and presented to District, State, or Federal personnel upon request.
   (a) Start-up and Stop time
   (b) Time and duration of each steady state period and non-steady state (transitional) period and the quantity of fuel used during each period;
   (c) Total hours of operation per day, per month and per year
   (d) Duration of all start-up and shutdown periods
   (e) Daily, Monthly and calendar year fuel consumption summary in cubic feet;
   (f) Annual average heating value of fuel (in accordance with District Rule 1159 or equivalent);
   (g) Monthly and Calendar Year Totals for hours operated in each load type, Steady State and Transitional;
   (h) Record(s) of all maintenance, malfunction, repairs (eg corrective action); and
   (i) Results of most recent compliance test.
   (j) Continuous emissions monitors records.
   [District Rules 1159 and 1302]

4. Emissions of NOx, CO, and oxygen shall be monitored using a Continuous Emissions Monitoring System (CEMS). Turbine fuel consumption shall be monitored using a continuous monitoring system. The operator shall install, calibrate, maintain and operate these monitoring systems according to a District-approved monitoring plan and Rule 218, and they shall be installed prior to initial equipment startup. Six (6) months prior to installation the operator shall submit a monitoring plan for District review and approval.
[District Rules 218 and 1302 and 40 CFR 60.334(b)]

5. The CEMS shall meet the requirements in 40 CFR 60, Appendix F Procedure 1 and Part 60, Appendix B Performance Specifications 2 and 3, or shall meet equivalent specifications established by mutual agreement of the District, the ARB, and the EPA.
[District Rule 1302 and 40 CFR 60.334(b)(1)]

6. Emissions of NOx, VOC, and CO from this turbine shall not exceed the following emission limits, verified by an initial and annual compliance source test.
   (a) Steady State NOx: 2.12 lb/hr (based on 8 ppmvd @ 15% oxygen, three-hour

average)
(b) CO: 1.29 lb/hr (based on 8 ppmvd @ 15% oxygen)
(c) VOC: 0.40 lb/hr (based on 4.3 ppmvd @ 15% oxygen)
(d) NH4: 20 ppmvd (@ 15% oxygen)

Note: CO and VOC emission limits are BACT established levels. These concentrations limits are lower than the emission concentration limits of District Rule 1159. [Regulation XIII-BACT requirement in the case of NOx, VOC, and CO]

7. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov [District Rule 1302 (C)(2)(a)]

8. The owner/operator (o/o) shall conduct an initial compliance test with 180 days of date of initial operation, and annually thereafter on one of the four Turbine Compressors, permitted as B012852, B012853, B012854, and B012855. The compliance test must be carried out in accordance with a District-approved test plan and MDAQMD Compliance Test Procedural Manual. Only one turbine unit is required to be tested during each compliance test. Each subsequent compliance test report shall be submitted to the District no later than 45 days after completion of the test. The following compliance tests are required and must be conducted under conditions representative of normal operation:
   (a) NOx as NO2 in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Method 20).
   (b) VOC as CH4 in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Methods 25A or 18).
   (c) CO in ppmvd at 15% oxygen and lb/hr (measured per USEPA Reference Method 10).
   (d) Flue gas flow rate in dscfm (measured per USEPA Method 19).
   (e) O2, Stack Gas Oxygen (measured using EPA Method 3 or 3A or ARB Method 100)
   (f) NH4, Ammonia, in ppmvd at 15% oxygen and lb/hr, per SCAQMD Source Test Method 207-1 - Determination of Ammonia Emissions from Stationary Sources.
   (g) The Natural Gas Higher Heating Value (HHV) and Lower Heating Value (LHV)shall be determined as indicated below:
      i. ASTM Test Method D 3588-91 (Standard Practice for Calculation Heat Value, Compressibility Factor, and Relative Density (Specific Gravity) of Gaseous Fuels); or
      ii. ASTM Test Method D 1826-88 (Standard test Method for Caloric (Heating) Value of Gases in Natural Gas Range by Continuous Recording Calorimeter); or

iii. ASTM Test Method D 1945-81 (Standard Method for Analysis of Natural Gas by Gas Chromatography).

[District Rules 1159 and 1302]

9. Total emissions from this equipment shall not exceed the following in any consecutive 12-month period. Emissions shall be calculated using the most recent source test result and operational data as operated at each load type, Steady State and Transitional.
(a) NOx: 20,840 lb/yr
(b) VOC: 3,460 lb/yr
(c) CO: 11,280 lb/yr
(d) SOx: 380 lb/yr
(e) PM10: 4,160 lb/yr
[District Rule 1302(C)(2)(a)]

10. The owner/operator must continuously monitor the duration, and load regimes', Steady State and Transitional, in which the Turbine operates using a data acquisition and handling system approved by the District. Each Steady State and Transitional load range that the unit operates must be recorded at least once every 15 minutes during operation. Collected operating data shall be paired with emission rate (from most recent source test) and the emissions calculated on an hourly, daily, monthly and annual basis. Data shall be quality assured and reported in accordance with 40 CFR Part 60 Appendix F (or District approved protocol). Malfunctions must be reported in accordance with District Rule 218.
[District Rule 1302]

11. The owner/operator must install, operate, and maintain in calibration;
(a) non-resettable totalizing fuel meters; and
(b) continuous measurement and recording of elapsed time of operation.
[District Rule 1302]

12. Emissions from this turbine are affected by the Load type, Steady State and Transitional. The project emissions netting analysis includes these two emission profiles. Therefore, the owner operator shall not operate this Turbine is excess of 25% of total operating time in Load Transitional mode.
[District Rule 1302]

13. This turbine shall not exceed an annual fuel use of 154.22 MMscf/yr during transitional loads; and shall not exceed a total annual fuel use of 616.89 MMscf/yr. Once the BCS NSR Phase I and Phase II are complete and as a result of conditional operation of only three Turbines at any time, the maximum combined total fuel use for Turbines permitted as B012852, B012853, B012854, and B012855, in any consecutive 12 - month period, shall not exceed 3 X 616.89 MMscf = 1851 MMscf/Yr. To ensure compliance with this requirement, a log of the combined fuel use shall be kept, maintained and made available to District State, and Federal personal upon request.
[District Rule 1302]

14. The three-hour rolling average ammonia slip concentration in ppm shall be continuously

calculated and recorded using the following formula:

NH3 (ppmv) = [a-b*c/1E-06]*1E+06/b

Where:
a = NH3 injection rate (lbs/hr)/17(lb/lb-mole)
b = dry exhaust gas flow rate (scf/hr)/385.3 scf/lb-mole, calculated using EPA Method 19
c = change in measured NOx across the SCR (ppmvd at 15% O2)

The operator shall install and maintain a process analyzer to measure the SCR inlet NOx. In the equation above, c is calculated by subtracting the CEMS NOx measurement from the process analyzer measurement.

The ammonia slip calculation procedures describe above shall not be used for compliance determination or emission information without corroborative data using an approved reference method for the determination of ammonia.

The operator shall use the above described method, or another alternative method approved by the Executive Officer.
[District Rule 1302(C)(2)(a)]

15. Exhaust stack shall be equipped with permanent stack sampling provisions consistent with Rule 217, EPA reference methods 5 and 8, and OSHA requirements.
[District Rules 217, and 1302]

16. This gas turbine engine shall be equipped with a continuously recording process analyzer.
[District Rule 1302]

17. The CEMS shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period or shall meet equivalent specifications established by mutual agreement of the District, the ARB and the EPA.
[District Rule 1302 and 40 CFR 60.334(b)(2)]

18. The owner or operator shall maintain CEMS records that contain the following: the occurrence and duration of any start-up, shutdown or malfunction, performance testing, evaluations, calibrations, checks, adjustments, maintenance, duration of any periods during which a continuous monitoring system or monitoring device is inoperative, and emission measurements.
[District Rule 1302 and 40 CFR 60.7(b)]

19. The owner or operator shall submit a written report of CEM operations for each calendar quarter to the APCO. The report is due on the 30th day following the end of the calendar quarter and shall include the following: Time intervals, data and magnitude of excess NOx emissions, nature and the cause of excess (if known), corrective actions taken and preventive measures adopted; Averaging period used for data reporting corresponding to

the averaging period specified in the emission test period used to determine compliance with an emission standard; Applicable time and date of each period during which the CEM was inoperative (monitor downtime), except for zero and span checks, and the nature of system repairs and adjustments; A negative declaration when no excess emissions occurred.
[District Rule 1302 and 40 CFR 60.334(j)]

20. The owner/operator shall check, record, and quantify the calibration drift (CD) of the continuously recording process analyzer (Process Analyzer) at two concentration values at least once daily (approximately 24 hours). The Process Analyzer's calibration shall be adjusted whenever the daily zero or high-level CD exceeds 5%. If either the zero or high-level CD of the Process Analyzer exceeds 5% for five consecutive daily periods, the Process Analyzer shall be deemed out-of-control. If either the zero or high-level CD exceeds 10% during any CD check, the Process Analyzer shall be deemed out-of-control. If the Process Analyzer is out-of-control, the permittee shall take appropriate corrective action including repair of the Process Analyzer within 96 operating hours and then repeat the CD of the Process Analyzer.
[District Rule 1302]

21. Steady state gas turbine engine operation shall commence after any two consecutive 15-minute periods in which the fuel rate to the turbine does not differ from the reference fuel rate by more than +/- 3900 scf/15-minute period.
[District Rules 1302]

22. Steady state gas turbine engine operation shall cease and transitional state begin if, during any single 15-minute period, the fuel rate differs from the reference fuel rate by more than +/- 3900 scf/1- minute period. The reference fuel rate is defined as the fuel rate measured during the preceding 15-minute period.
[District Rules 1302]

23. Gas turbine engine startup is that period of time not exceeding two hours in duration during which the unit is brought from a shutdown status to its operating temperature and pressure, including the time required by the unit's emission control system to reach full operation. NOx emissions will be monitored via the NOx Continuous Emissions Monitor during startup and shutdown and emissions during these periods will be maintained within the facility's annual emissions limits. [District Rule 1302(C)(2)(a)]

24. Gas turbine engine shutdown is that period of time not exceeding two hours in duration during which the unit is taken from an operational to a non-operational status by allowing it to cool down from its operating temperature to ambient temperature as the fuel supply to the unit is completely turned off. NOx emissions will be monitored via the NOx Continuous Emissions Monitor during startup and shutdown and emissions during these periods will be maintained within the facility's annual emissions limits.
[District Rule 1302(C)(2)(a)]

25. This equipment shall not discharge into the atmosphere from any single source of

emission whatsoever any air contaminant for a period or periods aggregating more than three minutes in any one hour that has visible emissions greater than or equal to 20% opacity.
[District Rule 401]

This Condition 26 Applicable to Permits B012852 and B012853 only:

26. The operation of this equipment is contingent on simultaneous emission reductions from pre-existing equipment, therefore, the following sequence must occur to preclude excess emissions:

The modification of Engines' permitted as Clark Engines B013092 (Clark 11), B013093 (Clark 12), B013095 (Clark 14), and B013096 (Clark 15), shall occur during Phase I portion of the BCS NSR project. These Modifications shall occur prior to the operation of this equipment.

Note: The collective emission reductions shall be used as Simultaneous Emission Reduction Credit's (SERC's) for the following new equipment: 2-New Turbine Driven Compressors; B012852, B012853, 5-New Natural Gas fired Reciprocating Engines; B012864, B012865, B012866, B012867, and B012868 and 1-New Emergency Fire Water Pump, E013097.
[District Rules 204 and 1302(C)(2(a)]

This Condition 26 Applicable to Permits B012854 and B012855 only:

26. The operation of this equipment is contingent on simultaneous emission reductions from pre-existing equipment, therefore, the following sequence must occur to preclude excess emissions:

The modification of Engines' permitted as Clark Engines B013092 (Clark 11), B013093 (Clark 12), B013095 (Clark 14), and B013096 (Clark 15), shall occur during Phase I portion of the NSR project, and B013094 (Clark 13), during Phase II portion of the NSR project. These Modifications shall occur prior to the operation of this equipment.

Additionally, the termination and permit cancellation of the following equipment shall occur prior to operation of this equipment (notwithstanding overlap time for commissioning):
Clark 8, S/N 30129, Clark 9, S/N 30151, and Clark 10, S/N 30194, collectively permitted under B004154.

Plant 2 Generators: Permit Numbers; B008081, B008082, B008083, and B008084.
Plant 3 Compressors: Permit Numbers; B008079, and B008080

Note: Collective emission reductions are used as SERC's for the following new equipment: 4-New Turbine Driven Compressors; B012852, B012853, B01254, and B012855, 5-New Natural Gas fired Reciprocating Engines; B012864, B012865,

B012866, B012867, B012868 and 1-New Emergency Fire Water Pump, E013097.
[District Rules; 1302(C)(2(a), Rule 204]

Condition 27 Applicable to B012852, B012853, B012854 and B012855, continued:

27. The owner or operator of this Stationary Gas Turbine is required to install Emissions Control Equipment for compliance with District Rule 1159, therefore the owner/operator shall:
    (a) Install, operate, and maintain in calibration, the following monitoring equipment, as approved by the APCO:
        (i) Continuous measurement and recording of Emissions Control System Operating Parameters;
        (ii) Continuous measurement and recording of elapsed time of operation; and
        (iii) An Enhanced Emissions Monitoring Device.
    (b) Notify the APCO, in writing, before issuance of the Permit To Operate, such information which correlates the Emission Control System Operating Parameters, and PEMS if present, to the associated measured NOX emissions output. This information will be used to determine compliance with applicable provisions of this rule when the CEMS is not operating properly.
    (c) Provide, on an annual basis, compliance testing data and information regarding NOX emissions. The data shall be corrected to ISO conditions and at 15 percent oxygen on a dry basis; and the percent efficiency (EFF) of each turbine unit.
    [District Rule 1159]

This Condition 28 Applicable to Permit B012852 only:

28. The owner/operator shall not operate this equipment without the selective catalytic NOx reduction system with valid District permit C012860 and VOC and CO oxidation catalyst system with valid District permit C012856 installed and fully functional.
    [District Rules 204 and 1302(C)(2(a)]]

This Condition 28 Applicable to Permit B012853 only:

28. The owner/operator shall not operate this equipment without the selective catalytic NOx reduction system with valid District permit C012861 and VOC and CO oxidation catalyst system with valid District permit C012857 installed and fully functional.
    [District Rules 204 and 1302(C)(2(a)]

This Condition 28 Applicable to Permit B012854 only:

28. The owner/operator shall not operate this equipment without the selective catalytic NOx reduction system with valid District permit C012862 and VOC and CO oxidation catalyst system with valid District permit C012858 installed and fully functional.
    [District Rules 204 and 1302(C)(2(a)]

This Condition 28 Applicable to Permit B012855 only:

28. The owner/operator shall not operate this equipment without the selective catalytic NOx reduction system with valid District permit C012863 and VOC and CO oxidation catalyst system with valid District permit C012859 installed and fully functional.
[District Rules 204 and 1302(C)(2(a)]

Conditions Applicable to B012852, B012853, B012854 and B012855, continued:

29. After completion of the BCS NSR project Phase I and Phase II, and to preclude exceeding the PSD threshold of 10 TPY for PM2.5, only three of the four Turbine Driven Compressors, permitted as B012852, B012853, B01254, and B012855, shall be operated simultaneously.
[District Rules 204 and 1302(C)(2(a)]

30. Conditions 30 through 42 are specific to the requirements California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. In the event of conflict between conditions the more stringent requirements shall govern. These do not apply to centrifugal natural gas compressors that operate less than 200 hours per calendar year provided that the owner or operator maintains, and makes available upon request by the ARB Executive Officer or District, a record of the operating hours per calendar year.
[17 CCR 95668 (c)(2)(A)]

31. Beginning January 1, 2018, components on driver engines and compressors that use a wet seal or a dry seal shall comply with the leak detection and repair requirements specified in 17 CCR section 95669 (as outlined in conditions 33 through 40).
[17 CCR 95668 (d)(3)]

Additionally, the compressor wet seal shall be measured annually by direct measurement (high volume sampling, bagging, calibrated flow measuring instrument) while the compressor is running at normal operating temperature in order to determine the wet seal emission flow rate using one of the following methods:

(a) Vent stacks shall be equipped with a meter or instrumentation to measure the wet seal emissions flow rate; or,
(b) Vent stacks shall be equipped with a clearly identified access port installed at a height of no more than six (6) feet above ground level or a permanent support surface for making wet seal emission flow rate measurements.
(c) If the measurement is not obtained because the compressor is not operating for the scheduled test date and the remainder of the inspection period, then testing shall be conducted within 7 calendar days of resumed operation. The owner or operator shall maintain, and make available upon request by the ARB Executive Officer, a copy of operating records that document the compressor hours of operation and run dates in order to demonstrate compliance with this requirement.

[17 CCR 95668 (d)(4)]

32. Beginning January 1, 2019, centrifugal compressors with wet seals shall control the wet

seal vent gas with the use of a vapor collection system as described in section 17 CCR 95671 (as outlined by condition 41, below); or, a compressor with a wet seal emission flow rate greater than three (3) scfm, or a combined flow rate greater than the number of wet seals multiplied by three (3) scfm, shall be successfully repaired within 30 calendar days of the initial flow rate measurement. [17 CCR 95668(d)(5)]

A delay of repair may be granted by the ARB Executive Officer if the owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days, or 60 days from the date from of the initial measurement, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed. [17 CCR 95668(d)(6)]

If parts are not available to make the repairs, the wet seal shall be replaced with a dry seal by no later than January 1, 2020. [17 CCR 95668(d)(7)]

The owner/operator shall maintain, and make available upon request by the ARB Executive Officer and the District staff, a record of the flow rate measurement as specified in Appendix A, Table A7 and shall report the result to ARB and the District once per calendar year as specified in section 95673 of this subarticle. [17 CCR 95668(d)(8)]

A centrifugal natural gas compressor with a wet seal emission flow rate measured above the standard specified in section 17 CCR 95668(d)(6) and which has been approved by the ARB Executive Officer as a critical component as specified in section 95670, shall be successfully repaired by the end of the next scheduled process shutdown or within 12 months from the date of the initial flow rate measurement, whichever is sooner. [17 CCR 95668(d)(9)]

33. Beginning January 1, 2018, all components, including components found on tanks, separators, wells, and pressure vessels not identified in 17 CCR 95669(b) shall be inspected and repaired as follows. The ARB Executive Officer may perform inspections at facilities at any time to determine compliance with the requirements specified. [17 CCR 95669(c)&(d)]

Except for inaccessible or unsafe to monitor components, the owner/operator shall audio-visually inspect (by hearing and by sight) all hatches, pressure-relief valves, well casings, stuffing boxes, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours; and, the owner/operator shall audio-visually inspect all pipes for leaks or indications of leaks at least once every 12 months. [17 CCR 95669(e)]

Any audio-visual inspection specified above that indicates a leak that cannot be repaired within 24 hours shall be tested using US EPA Reference Method 21 (October 1, 2017) within 24 hours after initial leak detection, and the leak shall be repaired in accordance

with the repair timeframes specified:

(a) For leaks detected during normal business hours, the leak measurement shall be performed within 24 hours. For leaks detected after normal business hours or on a weekend or holiday, the deadline is shifted to the end of the next normal business day.

(b) Any leaks measured above the minimum leak threshold shall be successfully repaired within the timeframes specified.

[17 CCR 95669(f)]

34. At least once each calendar quarter, all components shall be tested for leaks of total hydrocarbons in units of parts per million volume (ppmv) calibrated as methane in accordance with US EPA Reference Method 21 (October 1, 2017) excluding the use of PID instruments.

Optical Gas Imaging (OGI) instruments may be used as a leak screening device, but may not be used in place of US EPA Reference Method 21 (October 1, 2017) during quarterly leak inspections, provided they are approved for use by the ARB Executive Officer and used by a technician with a certification or training in infrared theory, infrared inspections, and heat transfer principles (e.g., Level II Thermography or equivalent training); and, all leaks detected with the use of an OGI instrument shall be measured using US EPA Reference Method 21 (October 1, 2017) within two calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine compliance with the leak thresholds and repair timeframes specified in this subarticle.

All inaccessible or unsafe to monitor components shall be inspected at least once annually using US EPA Reference Method 21 (October 1, 2017).
[17 CCR 95669(g)]

35. On or after January 1, 2020, any component with a leak concentration measured above the following standards shall be repaired within the time period specified:

(a) Leaks with measured total hydrocarbon concentrations greater than or equal to 1,000 ppmv but not greater than 9,999 ppmv shall be successfully repaired or removed from service within 14 calendar days of initial leak detection.

(b) Leaks with measured total hydrocarbon concentrations greater than or equal to 10,000 ppmv but not greater than 49,999 ppmv shall be successfully repaired or removed from service within five (5) calendar days of initial leak detection.

(c) Leaks with measured total hydrocarbon concentrations greater than or equal to 50,000 ppmv shall be successfully repaired or removed from service within two (2) calendar days of initial leak detection.

(d) Critical components or critical process units shall be successfully repaired by the end of the next process shutdown or within 12 months from the date of initial leak detection, whichever is sooner.

A delay of repair may be granted by the ARB Executive Officer under the following conditions:

i. The owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days from the dates specified above by which repairs must be made, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.

ii. A gas service utility can provide documentation that a system has been temporarily classified as critical to reliable public gas system operation as ordered by the utility's gas control office.
[17 CCR 95669(i)]

On or after January 1, 2020, no facility shall exceed the number of allowable leaks listed below during an ARB Executive Officer or District inspection as determined in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments [17 CCR 95669(o)(2)&(3)]:

Leak Threshold	200 or Less Components	More Than 200 Components
1,000-9,999 ppmv	5	2% of total inspected
10,000-49,999	2	1% of total inspected
50,000 ppmv or greater	0	0

36. The failure of an owner/operator to repair leaks within the timeframes specified, during any inspection period, shall constitute a violation. Leaks discovered during an operator-conducted inspection shall not constitute a violation if the leaking components are repaired within the timeframes.
[17 CCR 95669(o)(4)&(5)]

37. Upon detection of a component with a leak concentration measured above the standards specified, the owner/operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the component until all of the following conditions are met:
(a) The leaking component has been successfully repaired or replaced; and,
(b) The component has been re-inspected and measured below the lowest standard specified for the inspection year when measured in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments.
(c) Tags shall be removed from components following successful repair.
[17 CCR 95669(j)]

38. Owner/operator shall maintain, and make available upon request by the ARB Executive Officer or District, a record of all leaks found at the facility as specified in Appendix A, Tables A4 and A5, and shall report the results to ARB and the District once per calendar year as specified in section 17 CCR 95673.
[17 CCR 95669(k)]

39. Additional Leak Detection and Repair Requirements: Hatches shall remain closed at all times except during sampling, adding process material, or attended maintenance operations. [17 CCR 95669(l)] Open-ended lines and valves located at the end of lines shall be sealed with a blind flange, plug, cap or a second closed valve, at all times except during operations requiring liquid or gaseous process fluid flow through the open-ended line. Open-ended lines do not include vent stacks used to vent natural gas from equipment and cannot be sealed for safety reasons. Open-ended lines shall be repaired as follows [17 CCR 95669(m)]:
    (a) Open-ended lines that are not capped or sealed shall be capped or sealed within 14 calendar days from the date of initial inspection.
    (b) Open-ended lines that are capped or sealed and found leaking shall be repaired in accordance with the timeframes specified in 17 CCR 95669(h) and 95669(i).

    Components or component parts which incur five (5) repair actions within a continuous 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21 (October 1, 2017), to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the ARB Executive Officer or District.
    [17 CCR 95669(n)]

40. Beginning January 1, 2019, the following requirements apply to equipment at facilities located in sectors listed in 17 CCR 95666 that must be controlled with the use of a vapor collection system and control device as a result of the requirements specified in section 95668 of this subarticle: The vapor collection system shall direct the collected vapors to one of the following:
    (a) Sales gas system; or,
    (b) Fuel gas system; or,
    (c) Gas disposal well not currently under review by the Division of Oil and Gas and Geothermal Resources. [17 CCR 95671(b)]

    If no sales gas system, fuel gas system, or gas disposal well specified above is available at the facility, the owner or operator must control the collected vapors with either:
    (a) A non-destructive vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not result in emissions of nitrogen oxides (NOx); or,
    (b) A vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not generate more than 15 parts per million volume (ppmv) NOx when measured at 3 percent oxygen and does not require the use of supplemental fuel gas, other than gas required for a pilot burner, to operate. [17 CCR 95671(d)]

    If the collected vapors cannot be controlled as specified in herein, the equipment subject to the vapor collection and control requirements may not be used or installed and must be removed from service by January 1, 2019, and circulation

tanks may not be used and must be removed from service by January 1, 2020. [17 CCR 95671(e)]

Vapor collection systems and control devices are allowed to be taken out of service for up to 30 calendar days per calendar year for performing maintenance. A time extension to perform maintenance not to exceed 14 calendar days per calendar year may be granted by the ARB Executive Officer. The owner or operator is responsible for maintaining a record of the number of calendar days per calendar year that the vapor collection system or vapor control device is out of service and shall provide a record of such activity at the request of the ARB Executive Officer. If an alternate vapor control device compliant with this section is installed prior to conducting maintenance and the vapor collection and control system continues to collect and control vapors during the maintenance operation consistent with the applicable standards specified in section 95671, the event does not count towards the 30-calendar day limit. Vapor collection system and control device shutdowns that result from utility power outages are not subject to enforcement action provided the equipment resumes normal operation as soon as normal utility power is restored. Vapor collection system and control device shutdowns that result from utility power outages do not count towards the 30 calendar day limit for maintenance. [17 CCR 95671(f)]

41. The owner/operator shall maintain the following records for this equipment to comply with Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 – Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. These records must be made available to ARB or District staff upon request.

For Centrifugal Natural Compressors [17 CCR 95672 (a)(9-11)]:

(a) Maintain, for at least five years from the date of each emissions flow rate measurement, a record of each wet seal emission flow rate measurement as specified in Appendix A, Table A7.

(b) Maintain, for at least one calendar year, a record that documents the date(s) and hours of operation a compressor is operated in order to demonstrate compliance with the wet seal emission flow rate measurement in the event that the compressor is not operating during a scheduled inspection.

(c) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

For Leak Detection and Repair
[17 CCR 95672 (a)(17-21)]:

(d) Maintain, for at least five years from each inspection, a record of each leak detection and repair inspection as specified in Appendix A Table A4.

(e) Maintain, for at least five years from the date of each inspection, a component leak concentration and repair form for each inspection as specified in Appendix A Table A5.

(f) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

(g) Maintain gas service utility records that demonstrate that a system has been

temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.

For Vapor Collection System and Vapor Controls [17 CCR 95672 (a)(22)]:

(h) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

42. Beginning January 1, 2018, the owner/operator shall report the following information to ARB and the District by July 1st of each calendar year unless otherwise specified:

For Centrifugal Natural Gas Compressors [17 CCR 95673 (a)(4)]:

(a) Annually, report the emission flow rate measurement for each wet seal as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95673 (a)(12-13)]:

(b) Annually, report the results of each leak detection and repair inspection conducted during the calendar year as specified in Appendix A, Table A4.

(c) Annually, report the initial and final leak concentration measurements for components measured above the minimum allowable leak threshold as specified in Appendix A Table A5.

Reports shall be submitted as follows:

1. Reports made to the California Air Resources Board (CARB) shall be submitted electronically through their Cal e-GGRT Reporting Portal.

2. Submissions to the District may be submitted electronically to reporting@mdaqmd.ca.gov with the subject line "O&G GHG Regulation Reporting", or mailed to:
Mojave Desert AQMD
Attention: O&G GHG Regulation Reporting
14306 Park Avenue
Victorville, CA 92392

Note: It is anticipated that Districts will be able to retrieve Reports through the Cal-eGGRT portal sometime in 2020. Once that functionality is available, report submittals to the District will no longer be required.

43. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

G. Plant-4 TURBINE COMPRESSOR OXIDATION CATALYST (OXCAT) SYSTEMS, One for each of the four Gas Turbines:

G-1. MDAQMD PERMIT NUMBER C012856, PLANT 4, TURBINE COMPRESSOR 1,

OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I, consisting of: High temperature oxidation catalyst manufactured by BASF, Model Camet. Oxidation Catalytic System is located within the exhaust stack of combustion turbine compressor number 1 permitted as B012852 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs); performs effectively from 500 to 1250 Degrees F.

Equipment elevation is 259 feet above sea level.

See: https://catalysts.basf.com/products-and-industries/stationary-emissions/solutions-for-industrial-engines/camet-for-industrialengines

G-2. MDAQMD PERMIT NUMBER C012857, PLANT 4, TURBINE COMPRESSOR 2, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I, consisting of: High temperature oxidation catalyst manufactured by BASF, Model Camet. Oxidation Catalytic System is located within the exhaust stack of combustion turbine compressor number 2 permitted as B012853 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs); performs effectively from 500 to 1250 Degrees F.

Equipment elevation is 259 feet above sea level.

See: https://catalysts.basf.com/products-and-industries/stationary-emissions/solutions-for-industrial-engines/camet-for-industrialengines

G-3. MDAQMD PERMIT NUMBER B012858, PLANT 4, TURBINE COMPRESSOR 3, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II, consisting of: consisting of: High temperature oxidation catalyst manufactured by BASF, Model Camet. Oxidation Catalytic System is located within the exhaust stack of combustion turbine compressor number 3 permitted as B012854 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs); performs effectively from 500 to 1250 Degrees F.

Equipment elevation is 259 feet above sea level.

See: https://catalysts.basf.com/products-and-industries/stationary-emissions/solutions-for-industrial-engines/camet-for-industrialengines

G-4. MDAQMD PERMIT NUMBER B012859, PLANT 4, TURBINE COMPRESSOR 4, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II, consisting of: High temperature oxidation catalyst manufactured by BASF, Model Camet. Oxidation Catalytic System is located within the exhaust stack of combustion turbine compressor number 4 permitted as B012855 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs); performs effectively from 500 to 1250 Degrees F.

Equipment elevation is 259 feet above sea level.

See: https://catalysts.basf.com/products-and-industries/stationary-emissions/solutions-for-industrial-engines/camet-for-industrialengines

Conditions Applicable to the Four Oxidation Catalyst Permitted as: C012856, C012857, C012858, and C012859:

1. This air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 1302(C)(2)(a)]

For C012856

2. This equipment shall be operated concurrently with the combustion turbine compressor number 1 with valid District permit B012852.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012857

2. This equipment shall be operated concurrently with the combustion turbine compressor number 2 with valid District permit B012853.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012858

2. This equipment shall be operated concurrently with the combustion turbine compressor number 3 with valid District permit B012854.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012859

2. This equipment shall be operated concurrently with the combustion turbine compressor number 4 with valid District permit B012855.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

Conditions Applicable to the Four Oxidation Catalyst Permitted as: C012856, C012857, C012858, and C012859, continued:

3. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers.
[District Rule 1302(C)(2)(a)]

4. Inlet gas temperature at this Oxidation catalyst shall be monitored by operational temperature indicator.
[District Rule 1302(C)(2)(a)]

5. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

H. LOCATED AT PLANT 4 ARE FOUR NATURAL GAS FIRED COMBUSTION TURBINES POWERING COMPRESSORS:

H-1. MDAQMD PERMIT NUMBER C012860, PLANT 4, TURBINE COMPRESSOR 1, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE I, consisting of: a catalyst and ammonia injection system located within the exhaust stack of combustion turbine compressor number 1 permitted as B012852. Manufactured by Cormetech, Model Elite.

Equipment elevation is 259 feet above sea level.

H-2. MDAQMD PERMIT NUMBER C012861, PLANT 4, TURBINE COMPRESSOR 2, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE I, consisting of: a catalyst and ammonia injection system located within the exhaust stack of combustion turbine compressor number 2 permitted as B012853. Manufactured by Cormetech, Model Elite.

Equipment elevation is 259 feet above sea level.

H-3. MDAQMD PERMIT NUMBER C012862, PLANT 4, TURBINE COMPRESSOR 3, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE II, consisting of: a catalyst and ammonia injection system located within the exhaust stack of combustion turbine compressor number 3 permitted as B012854. Manufactured by Cormetech, Model Elite.

Equipment elevation is 259 feet above sea level.

H-4. MDAQMD PERMIT NUMBER C012863, PLANT 4, TURBINE COMPRESSOR 4, SELECTIVE CATALYTIC REDUCTION (SCR) SYSTEM, PHASE II, consisting of: a catalyst and ammonia injection system located within the exhaust stack of combustion turbine compressor number 4 permitted as B012855. Manufactured by Cormetech, Model Elite.

Equipment elevation is 259 feet above sea level.

Conditions Applicable to the Four Selective Catalytic Reductions Systems Permitted as: C012860, C012861, C012862, and C012863:

1. This air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[District Rule 1302(C)(2)(a)]

For C012860

2. This equipment shall be operated concurrently with the combustion turbine compressor number 1 with valid District permit B012852.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012861

2. This equipment shall be operated concurrently with the combustion turbine compressor number 2 with valid District permit B012853.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012862

2. This equipment shall be operated concurrently with the combustion turbine compressor number 3 with valid District permit B012854.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

For C012863

2. This equipment shall be operated concurrently with the combustion turbine compressor number 4 with valid District permit B012855.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

Conditions Applicable to the Four Selective Catalytic Reductions Systems Permitted as: C012860, C012861, C012862, and C012863, continued:

3. Ammonia shall be injected whenever the selective catalytic reduction system is between 500 and 900 Degrees F. Except during periods of startup and shutdown, Ammonia slip shall not exceed 20 ppmvd (corrected to 15% oxygen), averaged over three hours.
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

4. The owner/operator shall record and maintain for this equipment the following on site for a minimum of five (5) years and shall provide to District personnel upon request.
(a) Ammonia injection, in pounds per hour
(b) Temperature, in degrees Fahrenheit
[District Rule 1302(C)(2)(a); District Rule 1303(A)]

5. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

I. LOCATED AT THE GENERATOR BUILDING, ARE FIVE NATURAL GAS IC ENGINE PRIME GENERATORS:

I-1. MDAQMD PERMIT NUMBER C012864, GENERATOR BUILDING, NATURAL GAS IC ENGINE, PRIME GENERATOR 1, PHASE I, consisting of: GE Power Waukesha with emPact Emission Control System. Year of Manufacture is TBD; 4SRB, Engine Meets Stationary Spark Ignition ICE NSPS Requirements Pursuant to 40 CFR 60, Subpart JJJJ as the Manufacture Date is Subsequent to 2006; is equipped with three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012870.

Stack is 35 feet high, and has a diameter of 1.17 feet. Exhaust flow rate is 4,930 cfm at a temperature of 1061 degrees F.

Equipment Elevation is 258 feet above sea level.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One GE Power Waukesha, NG fired internal combustion engine Model No. L7042GSI S4 and Serial No. TBD, producing 1088 bhp with 16 cylinders at 900 rpm while consuming a maximum of 9289 scf/hr. This equipment powers a Generator Model No. and Serial No, rated at 770 kWe.

I-2. MDAQMD PERMIT NUMBER C012865, GENERATOR BUILDING, NATURAL GAS IC ENGINE, PRIME GENERATOR 2, PHASE I, consisting of: GE Power Waukesha with emPact Emission Control System. Year of Manufacture is TBD; 4SRB, Engine Meets Stationary Spark Ignition ICE NSPS Requirements Pursuant to 40 CFR 60, Subpart JJJJ as the Manufacture Date is Subsequent to 2006; is equipped with three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012871.

Stack is 35 feet high, and has a diameter of 1.17 feet. Exhaust flow rate is 4,930 cfm at a temperature of 1061 degrees F.

Equipment Elevation is 259 feet above sea level.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One GE Power Waukesha, NG fired internal combustion engine Model No. L7042GSI S4 and Serial No. TBD, producing 1088 bhp with 16 cylinders at 900 rpm while consuming a maximum of 9289 scf/hr. This equipment powers a Generator Model No. and Serial No, rated at 770 kWe.

I-3. MDAQMD PERMIT NUMBER C012866, GENERATOR BUILDING, NATURAL GAS IC ENGINE, PRIME GENERATOR 3, PHASE I, consisting of: GE Power Waukesha with emPact Emission Control System. Year of Manufacture is TBD; 4SRB, Engine Meets Stationary Spark Ignition ICE NSPS Requirements Pursuant to 40 CFR 60, Subpart JJJJ as the Manufacture Date is Subsequent to 2006; is equipped with three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012872.

Stack is 35 feet high, and has a diameter of 1.17 feet. Exhaust flow rate is 4,930 cfm at a

temperature of 1061 degrees F.

Equipment Elevation is 259 feet above sea level.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One GE Power Waukesha, NG fired internal combustion engine Model No. L7042GSI S4 and Serial No. TBD, producing 1088 bhp with 16 cylinders at 900 rpm while consuming a maximum of 9289 scf/hr. This equipment powers a Generator Model No. and Serial No, rated at 770 kWe.

I-4. MDAQMD PERMIT NUMBER C012867, GENERATOR BUILDING, NATURAL GAS IC ENGINE, PRIME GENERATOR 4, PHASE I, consisting of: GE Power Waukesha with emPact Emission Control System. Year of Manufacture is TBD; 4SRB, Engine Meets Stationary Spark Ignition ICE NSPS Requirements Pursuant to 40 CFR 60, Subpart JJJJ as the Manufacture Date is Subsequent to 2006; is equipped with three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012873.

Stack is 35 feet high, and has a diameter of 1.17 feet. Exhaust flow rate is 4,930 cfm at a temperature of 1061 degrees F.

Equipment Elevation is 260 feet above sea level.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One GE Power Waukesha, NG fired internal combustion engine Model No. L7042GSI S4 and Serial No. TBD, producing 1088 bhp with 16 cylinders at 900 rpm while consuming a maximum of 9289 scf/hr. This equipment powers a Generator Model No. and Serial No, rated at 770 kWe.

I-5. MDAQMD PERMIT NUMBER C012868, GENERATOR BUILDING, NATURAL GAS IC ENGINE, PRIME GENERATOR 5, PHASE I, consisting of: GE Power Waukesha with emPact Emission Control System. Year of Manufacture is TBD; 4SRB, Engine Meets Stationary Spark Ignition ICE NSPS Requirements Pursuant to 40 CFR 60, Subpart JJJJ as the Manufacture Date is Subsequent to 2006; is equipped with three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012874.

Stack is 35 feet high, and has a diameter of 1.17 feet. Exhaust flow rate is 4,930 cfm at a temperature of 1061 degrees F.

Equipment Elevation is 260 feet above sea level.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One GE Power Waukesha, NG fired internal combustion engine Model No. L7042GSI S4 and

Serial No. TBD, producing 1088 bhp with 16 cylinders at 900 rpm while consuming a maximum of 9289 scf/hr. This equipment powers a Generator Model No. and Serial No, rated at 770 kWe.

Emission Rates for Each of the Five Generators:

Emission Type	Est. Max Load	Unit
CO	0.6	gm/bhp-hr
NOx	0.15	gm/bhp-hr
PM10	19.8	Lbs/MMscf
SOx	0.60	Lbs/MMscf

Permit Conditions associated with the five Generators with District Permit Numbers: B012864, B012865, B012866, B012867, and B012868:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve-month average basis; not to exceed 81.37 mmcf/yr. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
   [District Rules 431-Sulfur Content of Fuel, and 1302 (C)(2)(a) - BACT]

3. A non-resettable four-digit (9,999) hour timer and/or fuel meter shall be installed and maintained on this unit to indicate elapsed engine operating time and/or fuel used.
   [District Rule 1302(C)(2)(a)]

For B012864

4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012870. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
   [40 CFR 60.4243(g)]

For B012865

4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-

way catalysts/non-selective catalytic reduction permitted under valid District Permit C012871. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR60.4243(g)]

For B012866

4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012872. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243(g)]

For B012867

4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012873. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243(g)]

For B012868

4. It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/non-selective catalytic reduction permitted under valid District Permit C012874. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.
[40 CFR 60.4243(g)]

Permit Conditions associated with the five Generators with District Permit Numbers: B012864, B012865, B012866, B012867, and B012868, continued:

5. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the following information:
   (a) Calendar year operation in terms of fuel consumption (in standard cubic feet) or total hours; and
   (b) Maintenance and repair actions, including date and description.
   [40 CFR 60.4243(a)(1) and 60.4245(a)(2)]

6. This engine is subject to 40 CFR 60, Subpart JJJJ - New Source Performance Standard

for Stationary Spark Ignition Internal Combustion Engines and these permit conditions. In the event of conflict, the more stringent requirements shall apply.
[District Rules 204 and 1302]

7. The owner/operator must conduct an initial performance test within 1 year of engine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance. Test shall be performed in accordance with 40 CFR 60 Subpart JJJJ and the Districts Source Test Protocols:
   (a) Measurements to determine O2 concentration must be made at the same time as the measurements for NOX concentration using EPA Method 3, 3A, or 3Bb of 40 CFR part 60, appendix A-2 or ASTM Method D6522-00.
   (b) Exhaust flowrate of the stationary internal combustion engine exhaust shall be determined using EPA Method 2 or 2C of 40 CFR part 60, appendix A-1 or Method 19 of 40 CFR part 60, appendix A-7.
   (c) Measurements to determine moisture must be made at the same time as the measurement for NOX concentration using EPA Method 4 of 40 CFR part 60, appendix A-3, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.
   (d) NOX sampling shall occur at the outlet of the control device using EPA Method 7E of 40 CFR part 60, appendix A-4, ASTM Method D6522-00, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.Results of this test consist of the average of three 1-hour or longer runs.
   (e) CO shall be sampled at the outlet of the control device using EPA Method 10 of 40 CFR part 60, appendix A4, ASTM Method D6522-00, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.
   (f) VOC shall be sampled at the outlet of the control device using EPA Methods 25A and 18 of 40 CFR part 60, appendices A-6 and A-7, Method 25A with the use of a hydrocarbon cutter as described in 40 CFR 1065.265, Method 18 of 40 CFR part 60, appendix A-6, Method 320 of 40 CFR part 63, appendix A, or ASTM Method D6348-03.
   (g) Sampling port locations and exhaust traverse points shall be made in accordance with Table 2 to Subpart JJJJ of Part 60 - Requirements for Performance Tests. (See: https://www.ecfr.gov/cgi-bin/text-idx?node=sp40.7.60.jjjj)
   [District Rule 204, 1302 and Subpart JJJJ]

8. The operation of this equipment is contingent on simultaneous emission reductions from pre-existing equipment, therefore, the following sequence must occur to preclude excess emissions:

   The modification of Engines permitted as Clark Engines B013092 (Clark 11), B013093 (Clark 12), B013095 (Clark 14), and B013096 (Clark 15), shall occur during Phase I portion of the BCS NSR project. These Modifications shall occur prior to the operation of this equipment.

   Note: The collective emission reductions shall be used as Simultaneous Emission Reduction Credits (SERCs) for the following new equipment: 2-New Turbine Driven

Compressors; B012852, B012853, 5-New Natural Gas fired Reciprocating Engines: B012864, B012865, B012866, B012867, and B012868 and 1-New Emergency Fire Water Pump, E013097.
[District Rules 204 and 1302(C)(2(a)]

9. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

J. LOCATED AT THE GENERATOR BUILDING ARE FIVE 3-WAY NSCR CATALYST, ONE FOR EACH OF THE FIVE NATURAL GAS FIRED GENERATORS:

J-1. MDAQMD PERMIT NUMBER C012870, GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 1, PHASE I, consisting of: EmPact Emission Control System located within the exhaust stack of NATURAL GAS IC ENGINE, PRIME GENERATOR, GEN 1 permitted as B012864; designed to reduce emissions of oxides of nitrogen (NOx), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH2O), and Hazardous Air Pollutants (HAPs).

Equipment Elevation is 261 feet above sea level.

J-2. MDAQMD PERMIT NUMBER C012871, GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 2, PHASE I, consisting of: EmPact Emission Control System located within the exhaust stack of NATURAL GAS IC ENGINE, PRIME GENERATOR, GEN 2 permitted as B012865; designed to reduce emissions of oxides of nitrogen (NOx), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH2O), and Hazardous Air Pollutants (HAPs).

Equipment Elevation is 261 feet above sea level.

J-3. MDAQMD PERMIT NUMBER C012872, GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 3, PHASE I, consisting of: EmPact Emission Control System located within the exhaust stack of NATURAL GAS IC ENGINE, PRIME GENERATOR, GEN 3 permitted as B012866; designed to reduce emissions of oxides of nitrogen (NOx), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH2O), and Hazardous Air Pollutants (HAPs).

Equipment Elevation is 261 feet above sea level.

J-4. MDAQMD PERMIT NUMBER C012873, GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 4, PHASE I, consisting of: EmPact Emission Control System located within the exhaust stack of NATURAL GAS IC ENGINE, PRIME GENERATOR, GEN 4 permitted as B012867; designed to reduce emissions of oxides of nitrogen (NOx), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH2O), and Hazardous Air Pollutants (HAPs).

Equipment Elevation is 261 feet above sea level.

J-5. MDAQMD PERMIT NUMBER C012874, GENERATOR BUILDING, 3-WAY NSCR CATALYST, GENERATOR 5, PHASE I, consisting of: EmPact Emission Control System located within the exhaust stack of NATURAL GAS IC ENGINE, PRIME GENERATOR, GEN 5 permitted as B012868; designed to reduce emissions of oxides of nitrogen (NOx), carbon monoxide (CO), hydrocarbons (HC), formaldehyde (CH2O), and Hazardous Air Pollutants (HAPs).

Equipment Elevation is 261 feet above sea level.

Conditions applicable to the five 3-Way NSCR Catalyst, permitted as: C012870, C012871, C012872, C012873, and C012874.

1. This air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 1302(C)(2)(a)]

For C012870

2. This equipment shall be operated concurrently with the Natural Gas Fired generator with valid District permit B012864.
[District Rule 1302 and 1303(A)]

For C012871

2. This equipment shall be operated concurrently with the combustion turbine with valid District permit B012865.
[District Rule 1302]

For C012872

2. This equipment shall be operated concurrently with the with the combustion turbine with valid District permit B012866.
[District Rule 1302]

For C012873

2. This equipment shall be operated concurrently with the Natural Gas Fired generator with valid District permit B012867.
[District Rule 1302]

For C012874

2. This equipment shall be operated concurrently with the Natural Gas Fired generator with valid District permit B012868.
[District Rule 1302]

Permit Conditions associated with five 3-Way Catalysts; District Permit Numbers: C012870, C012871, C012872, C012873, and C012874, continued:

3. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

K. LOCATED AT PLANT 2 ARE FIVE NATURAL GAS IC ENGINE POWERED COMPRESSORS:

K1. MDAQMD PERMIT NUMBER B013092, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 11, PRE-PHASE I AND PHASE I, consisting of: Year of Manufacturer 1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); this existing 2SLB engine has a rating of more than 500 brake HP and is located at a major source of HAP emissions does NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or the operating limitations in Tables 1b and 2b of this subpart. Clark Compressor 11, will be modified first, either prior to and/or during the BCS Compressor project Phase I, to determine which technologies and controls will ultimately be used on this Clark Compressor 11, and those identified as Clark 12, 14, & 15, to be Modified during Phase I; Clark 13 to be modified during Phase II.

Equipment Elevation is 261 feet above sea level. Stack is 30.4 feet high and 1.67 feet in Diameter.

Stack exhausts at 16,272 cfm at a temperature of 458 Degrees F and at a velocity of TBD fpm. Engine drives an integral compressor on a common crankshaft.

Equipment previously permitted as one of Eight Identical Clark Engines, permitted under aggregated permit B004154. Five of those engines are being modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One Dresser-Clark, NG fired internal combustion engine Model No. HBA8 and Serial No. 30251, producing 1760 bhp with 8 cylinders at 300 rpm while consuming a maximum of 17 MMBtu/hr.

K2. MDAQMD PERMIT NUMBER B013093, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 12, PHASE I, consisting of: Year of Manufacturer 1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); this existing 2SLB engine has a rating of more than 500 brake HP and is located at a major source of HAP emissions does NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or the operating limitations in Tables 1b and 2b of this subpart.

Equipment Elevation is 261 feet above sea level. Stack is 30.4 feet high and 1.67 feet in Diameter. Stack exhausts at 16,272 cfm at a temperature of 458 Degrees F and at a velocity of TBD fpm. Engine drives an integral compressor on a common crankshaft.

Equipment previously permitted as one of Eight Identical Clark Engines, permitted under aggregated permit B004154. Five of those engines are being modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II. Clark Compressor 11, will be modified first, either prior to and/or during the BCS Compressor project Phase I, to determine which technologies and controls will ultimately be used on Compressor No 11, and those identified as Clark 12, 14, & 15, to be Modified during Phase I; Clark 13 to be modified during Phase II.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One Dresser-Clark, NG fired internal combustion engine Model No. HBA-8 and Serial No. 30250, producing 1760 bhp with 8 cylinders at 3000 rpm while consuming a maximum of 17 MMBtu/hr.

K3. MDAQMD PERMIT NUMBER B013094, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 13, PHASE II, consisting of: Year of Manufacturer 1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); this existing 2SLB engine has a rating of more than 500 brake HP and is located at a major source of HAP emissions does NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or the operating limitations in Tables 1b and 2b of this subpart.

Equipment Elevation is 261 feet above sea level.

Stack is 30.4 feet high and 1.67 feet in Diameter. Stack exhausts at 16,272 cfm at a temperature of 458 Degrees F and at a velocity of TBD fpm. Engine drives an integral compressor on a common crankshaft.

Equipment previously permitted as one of Eight Identical Clark Engines, permitted under aggregated permit B004154. Five of those engines are being modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment

as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II. Clark Compressor 11, will be modified first, either prior to and/or during the BCS Compressor project Phase I, to determine which technologies and controls will ultimately be used on Compressor No 11, and those identified as Clark 12, 14, & 15, to be Modified during Phase I; Clark 13 to be modified during Phase II.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One Dresser-Clark, NG fired internal combustion engine Model No. HBA-8 and Serial No. 30263, producing 1760 bhp with 8 cylinders at 300 rpm while consuming a maximum of 17 MMBtu/hr.

K-4. MDAQMD PERMIT NUMBER B013095, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 14, PHASE I, consisting of: Year of Manufacturer 1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); this existing 2SLB engine has a rating of more than 500 brake HP and is located at a major source of HAP emissions does NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or the operating limitations in Tables 1b and 2b of this subpart.

Equipment Elevation is 261 feet above sea level. Stack is 30.4 feet high and 1.67 feet in Diameter.

Stack exhausts at 16,272 cfm at a temperature of 458 Degrees F and at a velocity of TBD fpm. Engine drives an integral compressor on a common crankshaft.

Equipment previously permitted as one of Eight Identical Clark Engines, permitted under aggregated permit B004154. Five of those engines are being modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II. Clark Compressor 11, will be modified first, either prior to and/or during the BCS Compressor project Phase I, to determine which technologies and controls will ultimately be used on Compressor No 11, and those identified as Clark 12, 14, & 15, to be Modified during Phase I; Clark 13 to be modified during Phase II.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One Dresser-Clark, NG fired internal combustion engine Model No. HBA-8 and Serial No. 30264, producing 1760 bhp with 8 cylinders at 300 rpm while consuming a maximum of 17 MMBtu/hr.

K-5. MDAQMD PERMIT NUMBER B013096, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 15, PHASE I, consisting of: Year of Manufacturer

1948; 2SLB; RICE NESHAP 40 CFR 63 Subpart ZZZZ IS NOT APPLICABLE Pursuant to Section 63.6590(b)(3); this existing 2SLB engine has a rating of more than 500 brake HP and is located at a major source of HAP emissions does NOT need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or the operating limitations in Tables 1b and 2b of this subpart.

Equipment Elevation is 261 feet above sea level. Stack is 30.4 feet high and 1.67 feet in Diameter.

Stack exhausts at 16,272 cfm at a temperature of 458 Degrees F and at a velocity of TBD fpm. Engine drives an integral compressor on a common crankshaft.

Equipment previously permitted as one of Eight Identical Clark Engines, permitted under aggregated permit B004154. Five of those engines are being modified through the installation of oxidation catalyst systems, turbochargers, and PCC/LEC and/or HPFI/EM to produce emission reductions and Simultaneous Emissions Reduction Credits for use in Permitting New Equipment as Part of the Blythe Compressor Station Upgrade Project, implemented as Phase I and Phase II. Clark Compressor 11, will be modified first, either prior to and/or during the BCS Compressor project Phase I, to determine which technologies and controls will ultimately be used on Compressor No 11, and those identified as Clark 12, 14, & 15, to be Modified during Phase I; Clark 13 to be modified during Phase II.

Note: The facility is currently a HAP Major Source. Once the facility has undergone both Phase I and Phase II Modifications, the facility will become a HAP area source.

One Dresser-Clark, NG fired internal combustion engine Model No. HBA-8 and Serial No. 30265, producing 1760 bhp with 8 cylinders at 300 rpm while consuming a maximum of 17 MMBtu/hr.

Permit Conditions applicable to the Five Clark Engine Powered Compressors, permitted as: B013092, B013093, B013094, B013095, and B013096:

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [District Rule 1302(C)(2)(a)]

2. This equipment shall be exclusively fueled with pipeline quality natural gas with a sulfur content not exceeding 1.0 grains per 100 dscf on a rolling twelve-month average basis. Compliance with this limit shall be demonstrated by providing evidence of a contract, tariff sheet or other approved documentation that shows that the fuel meets the definition of pipeline quality gas.
   [District Rules 431-Sulfur Content of Fuel, and 1302 (C)(2)(a) - BACT]

3. The owner/operator shall maintain a log of all inspections, repairs and maintenance on this equipment and submit it to District, state or federal personnel upon request. The log shall be kept for a minimum of five (5) years.
[District Rule 1302 (C)(2)(a)]

For B013092 (Clark 11)

4. This Engine with serial number 30251 located at Plant 2 can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the o/o shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

For B013093 (Clark 12)

4. This Engine with serial number 30250 located at Plant 2 can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the o/o shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

For B013094 (Clark 13)

4. This Engine with serial number 30263 located at Plant 2 can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the o/o shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

For B013095 (Clark 14)

4. This Engine with serial number 30264 located at Plant 2 can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the

o/o shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

For B013096 (Clark 15)

4. This Engine with serial number 30265 located at Plant 2 can be modified to evaluate technologies to improve engine operation and emissions. Modifications include turbocharger, precombustion chambers (PCC), and high-pressure fuel injection system. Prior to modifying the engine the owner/operator shall perform a source test in accordance with a District approved test protocol. Subsequent to the modifications, the o/o shall perform another source test summarizing the results and effects of the modifications performed.
[District Rule 1302]

Permit Conditions applicable to the Five Clark Engine Powered Compressors, permitted as: B013092, B013093, B013094, B013095, and B013096, continued:

5. A detailed record of the engine modifications conducted shall be maintained; including engine model and serial number, modifications description, manufacturer data, and any other pertinent information that will ensure subsequent modifications can be accurately described and replicated.
[District Rule 1302(C)(2)(a)]

6. Not later than 90 days after the emission modifications have been completed, the o/o shall perform subsequent source testing on the modified engine pursuant to District approved test protocol. The emission reductions are required as Simultaneous Emission reduction Credits to permit new equipment during the Phase I portion of the project. Emissions reductions shall be used to account for the emissions from the following equipment and as referenced by pending District Permit Numbers; Two Turbine Drivin Compressors; B012852, B012853, 5-New Natural Gas fired Reciprocating Engines; B012864, B012865, B012866, B012867, and B012868 and Emergency File Pump, E013097.
[District Rule 1302(C)(2)(a)]

7. Pursuant to Condition 6, the owner/operator shall conduct tests in accordance with the following test methods:
   (a) Flow rate in accordance with EPA Method 19; no current limit exists
   (b) Fuel analysis in accordance with ASTM D3588; limit not applicable
   (c) O2, and CO2 in accordance with EPA Method 3A or CARB Method 100
   (d) CO, as tested per EPA Method 10 or CARB Method 100; shall not exceed 106 Lb/mmcf
   (e) NOx, per USEPA Methods 7E; shall not exceed 2.0 g/bhp-hr
   (f) PM-10; shall not exceed 38.4 Lb/MMscf
   (g) SOx; shall not exceed 0.6 Lb/MMscf
   (h) VOC, shall be tested per EPA Method 18/GC-FID Analyses; shall not exceed 48

Lb/MMscf.
Quantities shall be corrected to 15% oxygen.
[District Rule 1302(C)(2)(a)]

8. Once this engine is retrofit, the o/o shall comply with the emission limits of condition 8. Additionally, the o/o shall ensure that the engines' modifications' will not cause a net emission increase of any criteria pollutant pursuant to District Regulation XIII; any modification related VOC increases shall be fully offset by Simultaneous Emissions Reductions (SERs) of NOX emissions at a 2:1 interpollutant offset ratio, NOX for VOCs. To ensure compliance with this requirement the o/o shall demonstrate emission changes through pre and post project emission source tests' as required above. The O/o shall notify the District within 90 days of any emission increase. All Emission increases shall be fully offset according to the requirements of Regulation XIII.
[District Rules 204 and 1302(C)(2(a)]

9. If the modified engine is found to exceed 1500 PPM NOx @ 15% O2 or 2000 PPM CO @ 15%, then the Operator shall be given 15 calendar days to correct the problem while continuing to operate that engine. If the problem cannot be corrected within 15 days, then that engine must be shut down and kept out of operation until such time as it can be repaired and its compliance with either the NOx limit or CO limit is confirmed by a either an emissions analysis or a certified source test.
[District Rule 1302(C)(2)(a)]

10. Source test results and emission analyses performed by the o/o shall be used only for the evaluation of the PCC equipment, and not be used for enforcement or compliance purposes.
[District Rule 1302(C)(2)(a)]

11. The modification of Engines' collectively permitted as Clark Engines B013092, B013093, B013095, and B013096 shall occur during Phase I portion of the NSR project. The collected emission reductions shall be used as Simultaneous Emission reduction Credit's (SERC's) for the following new equipment: 2-New Turbine Driven Compressors; B012852, B012853, 5-New Natural Gas fired Reciprocating Engines; B012864, B012865, B012866, B012867, and B012868 and 1-New Emergency Fire Water Pump, E013097.

Pursuant to District Regulation XIII, the reductions from the Clark Engines described above, must be Real, Surplus, Permanent, Quantifiable, and Enforceable. Therefore, the owner/operator shall provide to the District a full analysis of the combined emission reductions, from engines B013092, B013093, B013095, and B013096, including pre-modification and post modification emission concentrations of all criteria pollutants, and the permittable emissions from all new equipment with pending permits described above. This emission analysis shall be based on pre and post modification source tests' conducted on the Clark Engines'. The analysis shall result in a net surplus of emission credits. In the event that the emission reductions are less than anticipated, the purchase of emission reduction credits must occur prior to completing the permitting process.

[District Rules; 1302(C)(2(a), Rule 204]

12. The owner/operator must submit a compliance/source test protocol at least thirty (30) days prior to the compliance/source test date. The owner/operator must conduct all required compliance/source tests in accordance with a District-approved test protocol. The owner/operator must notify the District a minimum of ten (10) days prior to the compliance/source test date so that an observer may be present. The final compliance/source test results must be submitted to the District within forty-five (45) days of completion of the test. All compliance/source test notifications, protocols, and results may be submitted electronically to reporting@mdaqmd.ca.gov.
[District Rule 204]

13. This Natural Gas fired Internal Combustion Engine shall not emit pollutants in excess of the following limits.

Pollutant	Limit at Max Load	Units
CO	106	Lb/MMscf
NOx	2.0	g/bhp-hr
PM10	38.4	Lb/MMscf
SOx	0.6	Lb/MMscf
VOC	48	Lb/MMscf

14. The owner/operator (o/o) shall not operate this equipment more than 100 cumulative run hours without the VOC and CO oxidation catalyst system with valid District permit C013221, C013222, C013223, C013224, and C013225 installed and fully functional. To ensure compliance, an operations log shall be kept that quantifies the hours of operation with and without the oxidation catalyst.
[District Rules 204 and 1302(C)(2(a)]

15. Conditions 15 through 28 ARE DISTRICT AND STATE ENFORCEABLE ONLY REQUIREMENTS and are specific to the requirements California Code of Regulations Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. In the event of conflict between conditions the more stringent requirements shall govern. These do not apply to reciprocating natural gas compressors that operate less than 200 hours per calendar year provided that the owner or operator maintains, and makes available upon request by the ARB Executive Officer or district, a record of the operating hours per calendar year.
[17 CCR 95668 (c)(2)(A)]

16. By January 1, 2018 or within 180 days from installation, critical components used in conjunction with a critical process unit at facilities located in sectors listed in section 95666 of Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities must be pre-approved by the ARB Executive Officer if owners/operators wish to claim any critical component exemptions available under this subarticle. Critical components that have been designated as critical under an existing local air district leak detection and

repair program as of January 1, 2018 are not subject the critical component requirements specified in this subarticle.
[17 CCR 95670(a)]

Owners/operators must provide sufficient documentation demonstrating that a critical component is required as part of a critical process unit and that shutting down the critical component or process unit would impact safety or reliability of the natural gas system.
[17 CCR 95670(b)]

A request for a critical component or process unit approval is made by submitting a record of the component or process unit as specified in Appendix A, Table A3 along with supporting documentation to the ARB at the address listed in section 95673(b) of this subarticle.
[17 CCR 95670(c)]

Owners/operators shall maintain, and make available upon request by the ARB or the district staff, a record of all critical components or process units located at the facility as specified in Appendix A, Table A3. [17 CCR 95670(d)]

Each critical component or critical process unit must be identified according to one of the following methods [17 CCR 95670(e)]:

(a) Identify each component using a weatherproof, readily visible tag that indicates it as an ARB approved critical component and includes the date of ARB Executive Officer approval; or,

(b) Provide a diagram or drawing of all critical components or the critical process unit upon request by the ARB Executive Officer and by district staff. Approval of a critical component may be granted only if owners/operators fully comply with this section. The ARB Executive Officer and/or District retain discretion to deny any request for critical component or process unit approval.

[17 CCR 95670(f)]

17. Beginning January 1, 2018, components on driver engines and compressors shall comply with the leak detection and repair requirements specified in 17 CCR 95669 (as outlined in conditions 14 through 21); except for the rod packing component subject to 17 95668(c)(4)(B), which is outlined below:

The compressor rod packing or seal emission flow rate through the rod packing or seal vent stack shall be measured annually by direct measurement (high volume sampling, bagging, calibrated flow measuring instrument) while the compressor is running at normal operating temperature using one of the following methods:

(a) Vent stacks shall be equipped with a meter or instrumentation to measure the rod packing or seal emissions flow rate; or,

(b) Vent stacks shall be equipped with a clearly identified access port installed at a height of no more than six (6) feet above ground level or a permanent support surface for making individual or combined rod packing or seal emission flow rate measurements.

(c) If the measurement is not obtained because the compressor is not operating for the scheduled test date and the remainder of the inspection period, then testing shall be conducted within 7 calendar days of resumed operation. The owner or operator shall maintain, and make available upon request by the ARB Executive Officer, a copy of operating records that document the compressor hours of operation and run dates in order to demonstrate compliance with this requirement.

[17 CCR 95668(c)(4)(A)&(B)]

18. Beginning January 1, 2018, all components, including components found on tanks, separators, wells, and pressure vessels not identified in 17 CCR 95669(b) shall be inspected and repaired as follows. The ARB Executive Officer may perform inspections at facilities at any time to determine compliance with the requirements specified. [17 CCR 95669(c)&(d)]

Except for inaccessible or unsafe to monitor components, the owner/operator shall audio-visually inspect (by hearing and by sight) all hatches, pressure-relief valves, well casings, stuffing boxes, and pump seals for leaks or indications of leaks at least once every 24 hours for facilities that are visited daily, or at least once per calendar week for facilities that are not visited at least once every 24 hours; and, the owner/operator shall audio-visually inspect all pipes for leaks or indications of leaks at least once every 12 months. [17 CCR 95669(e)]

Any audio-visual inspection specified above that indicates a leak that cannot be repaired within 24 hours shall be tested using US EPA Reference Method 21 (October 1, 2017) within 24 hours after initial leak detection, and the leak shall be repaired in accordance with the repair timeframes specified:

(a) For leaks detected during normal business hours, the leak measurement shall be performed within 24 hours. For leaks detected after normal business hours or on a weekend or holiday, the deadline is shifted to the end of the next normal business day.

(b) Any leaks measured above the minimum leak threshold shall be successfully repaired within the timeframes specified.

[17 CCR 95669(f)]

19. At least once each calendar quarter, all components shall be tested for leaks of total hydrocarbons in units of parts per million volume (ppmv) calibrated as methane in accordance with US EPA Reference Method 21 (October 1, 2017) excluding the use of PID instruments. Optical Gas Imaging (OGI) instruments may be used as a leak screening device, but may not be used in place of US EPA Reference Method 21 (October 1, 2017) during quarterly leak inspections, provided they are approved for use by the ARB Executive Officer and used by a technician with a certification or training in infrared theory, infrared inspections, and heat transfer principles (e.g., Level II Thermography or equivalent training); and, all leaks detected with the use of an OGI instrument shall be measured using US EPA Reference Method 21 (October 1, 2017) within two calendar days of initial OGI leak detection or within 14 calendar days of initial OGI leak detection of an inaccessible or unsafe to monitor component to determine

compliance with the leak thresholds and repair timeframes specified in this subarticle. All inaccessible or unsafe to monitor components shall be inspected at least once annually using US EPA Reference Method 21 (October 1, 2017).
[17 CCR 95669(g)]

20. On or after January 1, 2020, any component with a leak concentration measured above the following standards shall be repaired within the time period specified:
    (a) Leaks with measured total hydrocarbon concentrations greater than or equal to 1,000 ppmv but not greater than 9,999 ppmv shall be successfully repaired or removed from service within 14 calendar days of initial leak detection.
    (b) Leaks with measured total hydrocarbon concentrations greater than or equal to 10,000 ppmv but not greater than 49,999 ppmv shall be successfully repaired or removed from service within five (5) calendar days of initial leak detection.
    (c) Leaks with measured total hydrocarbon concentrations greater than or equal to 50,000 ppmv shall be successfully repaired or removed from service within two (2) calendar days of initial leak detection.
    (d) Critical components or critical process units shall be successfully repaired by the end of the next process shutdown or within 12 months from the date of initial leak detection, whichever is sooner.

        A delay of repair may be granted by the ARB Executive Officer under the following conditions:
        (i) The owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered. A delay of repair to obtain parts or equipment shall not exceed 30 calendar days from the dates specified above by which repairs must be made, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.
        (ii) A gas service utility can provide documentation that a system has been temporarily classified as critical to reliable public gas system operation as ordered by the utility's gas control office. [17 CCR 95669(i)]

    On or after January 1, 2020, no facility shall exceed the number of allowable leaks listed below during an ARB Executive Officer or district inspection as determined in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments [17 CCR 95669(o)(2)&(3)]:

Leak Threshold	200 or Less Components	More than 200 Components
1,000-9,999 ppmv	5	2% of total inspected
10,000-49,999 ppmv	2	1% of total inspected
50,000 ppmv or greater	0	0

21. The failure of an owner/operator to repair leaks within the timeframes specified, during any inspection period, shall constitute a violation. Leaks discovered during an operator-conducted inspection shall not constitute a violation if the leaking components are repaired within the timeframes.
    [17 CCR 95669(o)(4)&(5)]

22. Upon detection of a component with a leak concentration measured above the standards specified, the owner/operator shall affix to that component a weatherproof readily visible tag that identifies the date and time of leak detection measurement and the measured leak concentration. The tag shall remain affixed to the component until all of the following conditions are met:
    (a) The leaking component has been successfully repaired or replaced; and,
    (b) The component has been re-inspected and measured below the lowest standard specified for the inspection year when measured in accordance with US EPA Reference Method 21 (October 1, 2017), excluding the use of PID instruments.
    (c) Tags shall be removed from components following successful repair.
    [17 CCR 95669(j)]

23. Owner/operator shall maintain, and make available upon request by the ARB Executive Officer or district, a record of all leaks found at the facility as specified in Appendix A, Tables A4 and A5, and shall report the results to ARB and the district once per calendar year as specified in section 17 CCR 95673.
    [17 CCR 95669(k)]

24. Additional Leak Detection and Repair Requirements: Hatches shall remain closed at all times except during sampling, adding process material, or attended maintenance operations. [17 CCR 95669(l)] Open-ended lines and valves located at the end of lines shall be sealed with a blind flange, plug, cap or a second closed valve, at all times except during operations requiring liquid or gaseous process fluid flow through the open-ended line. Open-ended lines do not include vent stacks used to vent natural gas from equipment and cannot be sealed for safety reasons. Open-ended lines shall be repaired as follows [17 CCR 95669(m)]:
    (a) Open-ended lines that are not capped or sealed shall be capped or sealed within 14 calendar days from the date of initial inspection.
    (b) Open-ended lines that are capped or sealed and found leaking shall be repaired in accordance with the timeframes specified in 17 CCR 95669(h) and 95669(i).

    Components or component parts which incur five (5) repair actions within a continuous 12-month period shall be replaced with a compliant component in working order and must be re-measured using US EPA Reference Method 21 (October 1, 2017), to determine that the component is below the minimum leak threshold. A record of the replacement must be maintained in a log at the facility, and shall be made available upon request by the ARB Executive Officer or district. [17 CCR 95669(n)]

25. Beginning January 1, 2019, compressor vent stacks used to vent rod packing or seal emissions shall be controlled with the use of a vapor collection system as specified in 17 CCR 95671 (as outlined by condition 22, below); or, a compressor with a rod packing or seal with a measured emission flow rate greater than two (2) standard cubic feet per minute (scfm), or a combined rod packing or seal emission flow rate greater than the number of compression cylinders multiplied by two (2) scfm, shall be successfully repaired within 30 calendar days from the date of the initial emission flow rate

measurement.

A delay of repair may be granted by the ARB Executive Officer if the owner or operator can provide proof that the parts or equipment required to make necessary repairs have been ordered.

A delay of repair to obtain parts or equipment shall not exceed 30 calendar days, or 60 days from the date from of the initial measurement, unless the owner or operator notifies the ARB Executive Officer to report the delay and provides an estimated time by which the repairs will be completed.

A reciprocating natural gas compressor with a rod packing or seal emission flow rate measured above the standard specified in 17 CCR 95668(c)(4)(D) (as outlined above) and which has been approved by the ARB Executive Officer as a critical component, shall be successfully repaired by the end of the next scheduled process shutdown or within 12 months from the date of the initial flow rate measurement, whichever is sooner. [17 CCR 95668 - Standards, section (c)(4)(C),(D)&(F) Reciprocating Natural Gas Compressors]

26. Beginning January 1, 2019, the following requirements apply to equipment at facilities located in sectors listed in 17 CCR 95666 that must be controlled with the use of a vapor collection system and control device as a result of the requirements specified in section 95668 of this subarticle:

The vapor collection system shall direct the collected vapors to one of the following:
(a) Sales gas system; or,
(b) Fuel gas system; or,
(c) Gas disposal well not currently under review by the Division of Oil and Gas and Geothermal Resources.
[17 CCR 95671(b)]

If no sales gas system, fuel gas system, or gas disposal well specified above is available at the facility, the owner or operator must control the collected vapors with either:
(a) A non-destructive vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not result in emissions of nitrogen oxides (NOx); or,
(b) A vapor control device that achieves at least 95 percent vapor control efficiency of total emissions and does not generate more than 15 parts per million volume (ppmv) NOx when measured at 3 percent oxygen and does not require the use of supplemental fuel gas, other than gas required for a pilot burner, to operate.
[17 CCR 95671(d)]

If the collected vapors cannot be controlled as specified in herein, the equipment subject to the vapor collection and control requirements may not be used or installed and must be removed from service by January 1, 2019, and circulation tanks may not be used and must be removed from service by January 1, 2020. [17 CCR 95671(e)] Vapor collection

systems and control devices are allowed to be taken out of service for up to 30 calendar days per calendar year for performing maintenance. A time extension to perform maintenance not to exceed 14 calendar days per calendar year may be granted by the ARB Executive Officer. The owner or operator is responsible for maintaining a record of the number of calendar days per calendar year that the vapor collection system or vapor control device is out of service and shall provide a record of such activity at the request of the ARB Executive Officer. If an alternate vapor control device compliant with this section is installed prior to conducting maintenance and the vapor collection and control system continues to collect and control vapors during the maintenance operation consistent with the applicable standards specified in section 95671, the event does not count towards the 30-calendar day limit. Vapor collection system and control device shutdowns that result from utility power outages are not subject to enforcement action provided the equipment resumes normal operation as soon as normal utility power is restored. Vapor collection system and control device shutdowns that result from utility power outages do not count towards the 30-calendar day limit for maintenance. [17 CCR 95671(f)]

27. The owner/operator shall maintain the following records for this equipment to comply with Title 17, Division 3, Chapter 1, Subchapter 10 Climate Change, Article 4 - Greenhouse Gas Emission Standards for Crude Oil and Natural Gas Facilities. These records must be made available to ARB or district staff upon request.

For Reciprocating Natural Gas Compressors [17 CCR 95672 (a)(5-8)]:

(a) Maintain, for at least five years from the date of each emissions flow rate measurement, a record of each rod packing emission flow rate measurement as specified in Appendix A, Table A7.
(b) Maintain, for at least one calendar year, a record that documents the date(s) and hours of operation a compressor is operated in order to demonstrate compliance with the rod packing leak concentration or emission flow rate measurement in the event that the compressor is not operating during a scheduled inspection.
(c) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

For Leak Detection and Repair [17 CCR 95672 (a)(17-21)]:

(d) Maintain, for at least five years from each inspection, a record of each leak detection and repair inspection as specified in Appendix A Table A4.
(e) Maintain, for at least five years from the date of each inspection, a component leak concentration and repair form for each inspection as specified in Appendix A Table A5.
(f) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.
(g) Maintain gas service utility records that demonstrate that a system has been temporarily classified as critical to reliable public gas operation throughout the duration of the classification period.

For Vapor Collection System and Vapor Controls [17 CCR 95672 (a)(22)]:

(h) Maintain records that provide proof that parts or equipment required to make necessary repairs have been ordered.

28. Beginning January 1, 2018, the owner/operator shall report the following information to ARB and the District by July 1st of each calendar year unless otherwise specified:

For Reciprocating Natural Gas Compressors [17 CCR 95673 (a)(2-3)]:

(a) Annually, report the emission flow rate measurement for each rod packing or seal as specified in Appendix A, Table A7.

For Leak Detection and Repair [17 CCR 95673 (a)(12-13)]:

(b) Annually, report the results of each leak detection and repair inspection conducted during the calendar year as specified in Appendix A, Table A4.

(c) Annually, report the initial and final leak concentration measurements for components measured above the minimum allowable leak threshold as specified in Appendix A Table A5.

Reports shall be submitted as follows:

1. Reports made to the California Air Resources Board (CARB) shall be submitted electronically through their Cal e-GGRT Reporting Portal.

2. Submissions to the District may be submitted electronically to reporting@mdaqmd.ca.gov with the subject line "O&G GHG Regulation Reporting", or mailed to:
Mojave Desert AQMD
Attention: O&G GHG Regulation Reporting
14306 Park Avenue
Victorville, CA 92392

Note: It is anticipated that Districts will be able to retrieve Reports through the Cal-eGGRT portal sometime in 2020. Once that functionality is available, report submittals to the District will no longer be required.

29. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

L. MDAQMD PERMIT NUMBER E013097, DIESEL IC ENGINE, EMERGENCY DIRECT-DRIVE WATER PUMP, PHASE I, consisting of: Year of Manufacture is 2018. Engine is a certified Tier III diesel engine, EPA Family Name JJDXL06.8120; EPA Certificate Number JJDXL06.8120-006; Engine Model Year 2018; DOES NOT HAVE A CORRESPONDING CARB EO CERTIFICATE. Engine meets the emissions requirements of 17 CCR 93115, and NSPS Subpart IIII.

Equipment elevation is 262 feet above sea level.

Stack height is 12 feet and Stack Diameter is 5 inches. Stack exhaust at 1189 cfm at 986 Degrees F and at a velocity of TBD fpm.

One Clarke/John Deere, Diesel fired internal combustion engine Model No. JU6H-UFAD88 and Serial No. TBD, Direct Injected, Turbo Charged, Electronic Control Module, producing 237 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 12 gal/hr. This equipment powers a PENTAIR AURORA Fire Pump Model No. 6-481-18C and Serial No. TBD, rated at 2000 GPM.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
CO	0.90	gm/bhp-hr
NOx	2.70	gm/bhp-hr
NOx+NMHC	2.82	gm/bhp-hr
PM10	0.10	gm/bhp-hr
PM2.5	0.10	gm/bhp-hr
VOC	0.12	gm/bhp-hr

1. This equipment, and any associated air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
   [40 CFR 60.4211; District Rule 1302(C)(2)(a)]

2. A non-resettable hour meter with a minimum display capability of 9,999 hours shall be installed and maintained on this unit to indicate elapsed engine operating time.
   [40 CFR 60.4209; Title 17 CCR 93115.10(d)]

3. This engine shall only be fired on diesel fuel that meets the following requirements, or an alternative fuel approved by the ATCM for Stationary CI Engines:
   (a) Ultra-low sulfur concentration of 0.0015% (15 ppm) or less, on a weight per weight basis; and,
   (b) A cetane index or aromatic content, as follows:
      1. A minimum cetane index of 40; or,
      2. A maximum aromatic content of 35 volume percent.

   [17 CCR 93115.5(a) and 40 CFR 80.510(c)]
   Note: Use of CARB certified ULSD fuel satisfies the above requirements.

4. This unit shall be limited to emergency use only, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 50 hours per rolling consecutive twelve month period for testing

and maintenance, unless NFPA-25 (current edition) authorizes additional time: If the 50 hour limit is exceeded due to NFPA requirements, the owner/operator is to have the authorizing section of NFPA 25 available for review at all times. Time required for source testing will not be counted toward the 50 hour rolling annual limit.
[17 CCR 93115.6(b), District Rule 1302(C)(2)(a)]

5. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of three (3) 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 hour meter);
   (b) Reason for use (testing & maintenance, emergency, required emission testing);
   (c) Rolling consecutive twelve month period operation in terms of fuel consumption (in gallons) or total hours;
   (d) Records of all maintenance and inspections; and,
   (e) Fuel sulfur concentration (the owner/operator may use the supplier's certification of sulfur content if it is maintained as part of this log).
   [40 CFR 70.6(a)(3)(ii)(b), 40 CFR 60.4214, 17 CCR 93115.10(f), District Rule 1302(C)(2)(a)]

6. This engine is subject to the requirements of Title 17 CCR 93115, the Airborne Toxic Control Measure (ATCM) for Stationary Compression Ignition Engines, and 40 CFR 60 Subpart IIII, Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.
   [District Rule 1302(C)(2)(a)]

7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
   [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

M. MDAQMD PERMIT NUMBER T013121, AQUEOUS AMMONIA STORAGE TANK, PHASE I, LOCATION IS TBD, consisting of: 10,000 gallons steel pressurized storage tank.

The tank will have an inner diameter of 8 feet and be 28 feet long and store Aqueous Ammonia in concentrations of less than 20%.

The Aqueous Ammonia stored in this tank is used as part of the SCR Emissions Control System.

Equipment Elevation is 260 feet above sea level.

Conditions:

1. This equipment shall be installed, operated and maintained in strict accordance 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.
[District Rule 1302(C)(2)(a)]

2. All of the components of this tank, including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and liquid drainage during transfer, storage and handling operations.
[District Rule 1302(C)(2)(a)]

3. The owner/operator (o/o) shall maintain a monthly log of the amount of ammonia received, stored, and dispensed. This log shall be maintained on-site for at least five years and be made available to the District upon request.
[District Rule 1302]

4. Aqueous Ammonia release can pose an Acute health risk, as such, the owner/operator shall have a Risk Management Plan associated with this Tanks operation. This plan shall be made available to District State or Federal personnel upon request.
[District Rule 1302]

5. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

N. THERE ARE FOUR NON-SELECTIVE CATALYTIC REDUCTION DEVICES ONE FOR EACH OF THE FOUR GENERATORS SCHEDULED TO BE SHUT DOWN:

N-1. MDAQMD PERMIT NUMBER C008089, NON-SELECTIVE CATALYTIC REDUCTION DEVICE (NSCR), consisting of: A Johnson Matthey-supplied high temperature (750 to 1350 Degrees F) three-way catalyst (NSCR), or equivalent, associated with Generator 1 permitted as B008081, designed to reduce NOx, CO and VOC.

NOTE: THIS 3-WAY CATALYST AND ASSOCIATED ENGINE PERMITTED AS B008081 ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

N-2. MDAQMD PERMIT NUMBER C008090, NON-SELECTIVE CATALYTIC REDUCTION DEVICE (NSCR), consisting of: A Johnson Matthey-supplied high temperature (750 to 1350 Degrees F) three-way catalyst (NSCR), or equivalent, associated with Generator 2 permitted as B008082, designed to reduce NOx, CO and VOC.

NOTE: THIS 3-WAY CATALYST AND ASSOCIATED ENGINE PERMITTED AS B008082 ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Equipment Elevation is 260 feet above sea level.

N-3. MDAQMD PERMIT NUMBER C008091, NON-SELECTIVE CATALYTIC REDUCTION DEVICE (NSCR), consisting of: A Johnson Matthey-supplied high temperature (750 to 1350 Degrees F) three-way catalyst (NSCR), or equivalent, associated with Generator #3 permitted as B008083, designed to reduce NOx, CO and VOC.

NOTE: THIS 3-WAY CATALYST AND ASSOCIATED ENGINE PERMITTED AS B008083 ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

N-4. MDAQMD PERMIT NUMBER C008092, NON-SELECTIVE CATALYTIC REDUCTION DEVICE (NSCR), consisting of: NON-SELECTIVE CATALYTIC REDUCTION DEVICE consisting of: A Johnson Matthey-supplied high temperature (750 to 1350 Degrees F) three-way catalyst (NSCR), or equivalent, associated with Generator #4 permitted as B008084, designed to reduce NOx, CO and VOC.

NOTE: THIS 3-WAY CATALYST AND ASSOCIATED ENGINE PERMITTED AS B008084 ARE SCHEDULED TO BE SHUT DOWN AND PERMITS CANCELLED PERMANENTLY DURING PHASE II OF THE BCS COMPRESSOR UPGRADE PROJECT.

Conditions applicable to the four NSCR Devices, permitted as: C008089, C008090, C008091, and C008092:

1. This air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 1302(C)(2)(a) and 40 CFR 70.6 (a)(3)(B)]

For Permit C008089:

2. This equipment shall be operated concurrently with the compressor with valid District permit B008081.
[District Rule 1302(C)(2)(a)]

For Permit C008090:

2. This equipment shall be operated concurrently with the compressor with valid District permit B008082.
[District Rule 1302(C)(2)(a)]

For Permit C008091:

2. This equipment shall be operated concurrently with the compressor with valid District

permit B008083.
[District Rule 1302(C)(2)(a)]

For Permit C008092:

2. This equipment shall be operated concurrently with the compressor with valid District permit B008084.
[District Rule 1302(C)(2)(a)]

Conditions applicable to the four NSCR Devices, permitted as: C008089, C008090, C008091, and C008092, continued:

3. The catalyst inlet temperature and inlet oxygen content shall be continuously monitored while the engine this unit serves is in operation. Other parameters may be monitored instead as a part of a District-approved parametric monitoring protocol.
[District Rule 1302(C)(2)(a); 40 CFR 70.6 (a)(3)(B)]

4. The catalyst inlet temperature shall be maintained between 750 and 1350 Degrees F, and the catalyst inlet oxygen content shall not exceed 0.5 percent, while the engine this unit serves is in operation.
[District Rule 1302(C)(2)(a)]

5. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

O. FIVE OXYDATION CATALYST, ONE FOR EACH OF THE FIVE NATURAL GAS IC ENGINE POWERED COMPRESSORS, LOCATED AT PLANT 2:

O-1. MDAQMD PERMIT NUMBER C013221, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 11, OXIDATION CATALYST (OXCAT) SYSTEM, PREPHASE I AND PHASE I, consisting of: Oxidation Catalytic System is located within the exhaust stack of NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 11 permitted as B013092 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs).

O-2. MDAQMD PERMIT NUMBER C013222, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 12, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I, consisting of: Oxidation Catalytic System is located within the exhaust stack of NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 12 permitted as B013093 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs).

O-3. MDAQMD PERMIT NUMBER C013223, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 13, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE II, consisting of: Oxidation Catalytic System is located within the exhaust stack of

NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 13 permitted as B013094 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs).

O-4. MDAQMD PERMIT NUMBER C013224, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 14, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I, consisting of: Oxidation Catalytic System is located within the exhaust stack of NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 14 permitted as B013095 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs).

O-5. MDAQMD PERMIT NUMBER C013225, NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 15, OXIDATION CATALYST (OXCAT) SYSTEM, PHASE I, consisting of: Oxidation Catalytic System is located within the exhaust stack of NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 15 permitted as B013096 designed to minimize emissions of VOC and CO and Toxic Air Contaminants (TACs).

Conditions applicable to the five Oxidation Catalyst, permitted as: C013221, C013222, C013223, C013224, and C013225:

1. This air pollution control device(s), shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles in a manner consistent with good air pollution control practice for minimizing emissions. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit. [District Rule 1302(C)(2)(a)]

For Permit C013221:

2. This equipment shall be operated concurrently with the NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 11 with valid District permit B013092. [District Rules 1302 and 1303(A)]

For Permit C013222:

2. This equipment shall be operated concurrently with the NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 12 with valid District permit B013093. [District Rules 1302 and 1303(A)]

For Permit C013223:

2. This equipment shall be operated concurrently with the NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 13 with valid District permit B013094. [District Rules 1302 and 1303(A)]

For Permit C013224:

2. This equipment shall be operated concurrently with the NATURAL GAS IC ENGINE,

COMPRESSOR, PLANT 2, CLARK NO. 14 with valid District permit B013095.
[District Rules 1302 and 1303(A)]

For Permit C013225:

2. This equipment shall be operated concurrently with the NATURAL GAS IC ENGINE, COMPRESSOR, PLANT 2, CLARK NO. 15 with valid District permit B013096.
[District Rules 1302 and 1303(A)]

Conditions applicable to the five Oxidation Catalyst, permitted as: C013221, C013222, C013223, C013224, and C013225, continued:

3. Inlet gas temperature to catalyst beds shall be maintained within the range recommended by catalyst manufacturers.
[District Rule 1302]

4. Inlet gas temperature at this Oxidation catalyst shall be monitored by operational temperature indicator.
[District Rule 1302]

5. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.
[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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.
[District Rule 1203(D)(1)(f)(i); 40 CFR 70.6(a)(5)]

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.
[District Rule 1203(D)(1)(f)(ii); 40 CFR 70.6(a)(6)(i)]

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).
[District Rule 1203(D)(1)(f)(iii); 40 CFR 70.6(a)(6)(ii)]

4. This Federal Operating Permit may be modified, revoked, reopened or terminated for cause.
[District Rule 1203(D)(1)(f)(iv); 40 CFR 70.6(a)(6)(iii)]

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.
[District Rule 1203(D)(1)(f)(v); 40 CFR 70.6(a)(6)(iii)]

6. The issuance of this Federal Operating Permit does not convey any property rights of any sort nor does it convey any exclusive privilege.
[District Rule 1203(D)(1)(f)(vi); 40 CFR 70.6(a)(6)(iv)]

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.
[District Rule 1203(D)(1)(f)(vii); 40 CFR 70.6(a)(6)(v)]

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.
[District Rule 1203(D)(1)(f)(viii); 40 CFR 70.6(a)(6)(v)]

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

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.
[District Rule 1203(D)(1)(f)(ix); 40 CFR 70.6(a)(7)]

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.
[District Rule 1203(D)(1)(f)(x); 40 CFR 70.6(a)(8)]

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). [District Rule 1203(G)(1); 40 CFR 70.6(f)(1)(i)]

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.
[District Rule 1203(G)(3)(a); 40 CFR 70.6(f)(3)(i)]

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.
[District Rule 1203(G)(3)(b); 40 CFR 70.6(f)(3)(ii)]

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.
[District Rule 1203(G)(3)(c); 40 CFR 70.6(f)(3)(iii)]

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.
[District Rule 1203(G)(3)(d); 40 CFR 70.6(f)(3)(iv)]

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.
[District Rule 1203(G)(3)(e); 40 CFR 70.4(b)(12)(ii)(B)]

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.
[District Rule 1203(G)(3)(f); 40 CFR 70.4(b)(14)(iii)]

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.
[District Rule 1203 (G)(3)(g); 40 CFR 70.5(a)(1)(ii), 70.7(e)(2)(vi)]

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]

PART V
OPERATIONAL FLEXIBILITY

A. ALTERNATIVE OPERATING SCENARIO(S):

B. OFF PERMIT CHANGES:

1. Permitee may make a proposed change to equipment covered by this permit that is not expressly allowed or prohibited by this permit if:
   (a) Permitee has applied for and obtained all permits and approvals required by MDAQMD Regulation II and Regulation XII unless the equipment involved in the change is exempt from obtaining such permits and approvals pursuant to the provisions of District Rule 219; and
      (i) The proposed change is-will not:
         a. Violate any Federal, State or Local requirement, including any Applicable Requirement, and the notice required under section (E)(1)(c)(ii)(c) indicates which term or condition contained in the FOP is no longer applicable; and
         b. Be subject to any requirement under Title IV of the Federal Clean Air Act (42 U.S.C. .S&7651-7651o) and is not a modification under Title I of the Federal Clean Air Act (42 U.S.C. 7401-7515); and
         c. Result in the exceedance of the emissions allowable under the permit, whether expressed therein as a rate of emissions or in terms of total emissions.
2. Procedure for "Off Permit" Changes
   (a) If a proposed "Off Permit Change" qualifies under Part V, Section (B)(I)(A)(1) above, permitee shall implement the change as follows:
      (i) Permitee shall provide information sufficient to comply with the provisions of 40 CFR 70.4(b)(14)(ii) except for changes that qualify as insignificant pursuant to District Rule 219.
      (ii) 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 [District Rule 1203I(1)(c)(ii)(b)]
         b. A list of any new Applicable Requirements which would apply as a result of the change; and [District Rule 1203(E)(1)(c)(ii)(b)]
         c. A list of any existing Applicable Requirements, which would cease to apply as a result of the change. [District Rule 1203(E)(1)(c)(ii)(b)]
3. Permitee shall forward a copy of the application and notification to USEPA upon submitting it to the District. [District Rule 1203(E)(1)(c)(ii)c]

   B. Permitee may make the proposed change upon receipt from the District of the Authority to Construct Permit or seven (7) days after forwarding the copy of the

notice and application to USEPA whichever occurs later. [District Rule 1203(E)(1)(c)(ii)(e)]

C. Permitee shall attach a copy of the Authority to Construct Permit and any subsequent Permit to Operate, which evidences the Off-Permit Change to this Title V permit. [District Rule 1203(E)(1)(c)(ii)(d)(2)]

D. Permitee shall include each Off-Permit Change made during the term of the permit in any renewal application submitted pursuant to Rule 1202(B)(3)(b). [See 1203(E)(1)(c)(i)f]

3. Other Requirements:
   (a) The provisions of District 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)] [District Rule 1203(E)(1)(c)]

PART VI
CONVENTIONS, ABREVIATIONS, DEFINITIONS

A. CONVENTIONS:

The following referencing conventions are used in this federal operating permit:

40 CFR Part 60, Standards of Performance for New Stationary Sources (NSPS)
40 CFR Part 60, Appendix F, Quality Assurance Procedures
40 CFR Part 61, National Emission Standards for Hazardous Air Pollutants (NESHAPS)
40 CFR Part 61, Subpart M, National Emission Standards for Asbestos
40 CFR Part 63--National Emission Standards For Hazardous Air Pollutants For Affected Source Categories
40 CFR Part 72, Permits Regulation (Acid Rain Program)
40 CFR Part 73, Sulfur Dioxide Allowance System
40 CFR Part 75, Continuous Emission Monitoring
40 CFR Part 75, Subpart D, Missing Data Substitution Procedures
40 CFR Part 75, Appendix B, Quality Assurance and Quality Control Procedures
40 CFR Part 75, Appendix C, Missing Data Estimating Procedures
40 CFR Part 75, Appendix D, Optional SO_2 Emissions Data Protocol
40 CFR Part 75, Appendix F, Conversion Procedures
40 CFR Part 75, Appendix G, Determination of CO_2 Emissions

B. OTHER CONVENTIONS:

1. Unless otherwise noted, a "day" shall be considered a 24-hour period from midnight to midnight (i.e., calendar day).
2. The process unit identifications represent the District permit number designations. These numbers are not sequential. The use of District permit numbers provides continuity between the District and Federal Operating Permit systems.

C. ABBREVIATIONS

Abbreviations used in this permit are as follows:

CFR	Code of Federal Regulations
APCO	Air Pollution Control Officer
bhp	brake horsepower
Btu	British thermal units
BCS	Blythe Compressor Station
CARB	California Air Resources Board
CCR	California Code of Regulations
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)
DLN	Dry Low NOx (Combustors)
EO	Executive Order
EM	Enhanced Mixing
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
HPFI	High Pressure Fuel Injection
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb/hr	pounds per hour
lb/MM Btu	pounds per million British thermal units
MDAQMD	Mojave Desert Air Quality Management District (formed July 1993)
MD	Mojave Desert Air Quality Management District (formed July 1993)
gr/dscf	grains per dry standard cubic foot
gpm	gallons per minute
gph	gallons per hour
hp	horse power
H&SC	California Health and Safety Code
lb	pounds
lb/hr	pounds per hour
lb/MMBtu	pounds per million British thermal units
LEC	Low Emission Combustion
MMBtu	million British thermal units
MMBtu/hr	million British thermal units per hour
MW	Megawatt electrical power
MW(e)net	net Megawatt electrical power
NH_3	ammonia
NMOC	non-methane organic compounds
NO_x	oxides of nitrogen
NO_2	nitrogen dioxide
NSCR	NON-SELECTIVE CATALYTIC REDUCTION (AKA 3-WAY CATALYST)
O_2	oxygen
ODS	Ozone Depleting Substances
PCC	Pre-Combustion Chamber
pH	pH (acidity measure of solution)
PM_{10}	particulate matter less than 10 microns aerodynamic diameter
ppmv	parts per million by volume
psig	pounds per square inch gauge pressure
QA	quality assurance
rpm	revolutions per minute
RVP	Reid vapor pressure
SB	San Bernardino County APCD (1975 to formation of MDAQMD)
SCAQMD	South Coast Air Quality Management District
scfm	standard cubic feet per minute

scfh	standard cubic feet per hour
SCR	Selective catalytic Reduction (NOx Reduction)
SIC	Standard Industrial Classification
SIP	State of California Implementation Plan
SO_x	oxides of sulfur
SO_2	sulfur dioxide
tpy	tons per year
TVP	true vapor pressure
VCS	vapor control system

PART VII
DISTRICT RULE SIP CITATIONS AND BASIS/AUTHORITY

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
Old SB	2	Definitions	SBC	MD 102	Bef 02/72	2/21/1972	40 CFR 52.2236(e)(4)(i)(A)	12/21/1978	43 FR 59489
Old SB	5 (a)	Public Availability of Emissions Data	SBC	None	Bef 02/73	7/25/1973	40 CFR 52.220(c)(21)(xv)(A)	6/14/1978	43 FR 25684
RC	51	Nuisance	RC	MD 402, 07/25/1977 via Res. 94-03	Bef 02/72	2/21/1971	40 CFR 52.220(c)(?)	5/31/1977	
RC	52	Particulate Matter - Concentration		MD 405, 07/25/1977 via Res. 94-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
RC	53	Specific Air Contaminants	RC	MD 406, 02/20/1979 via Res. 94-03	G-73	6/6/1977	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	54	Solid Particulate Matter, Weight	RC	MD 405, 07/25/1977 via Res. 94-03	Bef 06/72	6/30/1972	40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 4011
Old SB	54A	Solid Particulate Matter, Weight	SBC	MD 405, 07/25/1977	Unknown	6/30/1972	40 CFR 52.240(a)(1)&(d)(1)(i)	1/16/1981	46 FR 3883
RC	56	Scavenger Plants	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 40011
RC	58	Disposal of Solid and Liquid Wastes	RC	MD 473, 7/25/77 via Reso 04-03	Bef 06/72		40 CFR 52.228(b)(1)(iii)(A)	9/8/1978	43 FR 40011
Old SB	58 A	Disposal of Solid and Liquid Wastes	SBC	MD 473, 07/25/77	Bef 02/72		40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	62.1	Sulfur Content of Natural Gas	SBC	None but See MD 431	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3883
Old SB	67	Fuel Burning Equipment	SBC	None but See MD 474 and 476	Bef 02/72		40 CFR 52.280(b)(1)(ii)(C)	6/9/1982	47 FR 25013
RC	67	Fuel Burning Equipment	RC	None but See MD 474 and 476	Bef 11/79		40 CFR 52.280(c)(1)(i)	5/18/1981	46 FR 27116
Old SB	69	Vacuum Producing Devices or Systems	SBC	Fed Neg Dec. 12/21/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR3886
Old SB	70	Asphalt Air Blowing	SBC	Fed Neg Dec. 10/26/1994	Bef 02/72	2/21/1972	40 CFR 52.240(a)(1) & (d)(1)(i)	1/16/1981	46 FR 3886
RC	72	Fuel Burning Equipment	RC	MD 474, 01/22/1996; MD 475 03/16/1981; and MD 476 01/22/1996 via Res. 94-03	Bef 11/79	11/19/1979	40 CFR 52.280(c)(1)(i)	5/18/1981	46 FR 27116
RC	73	Lead Content and Volatility of Gasoline	RC	None	G-73	6/6/1977	40 CFR 52.220(c)(39)(iv)(C)	9/8/1978	43 FR 4001
Old SB	73	Dry Sandblasting	SBC	None	Bef 02/72	4/10/1975	40 CFR 52.220(C)(27)(v)	6/14/1978	43 FR 25684
RC	74	Vacuum Producing Devices or Systems	RC	Fed Neg Dec12/21/1994	Bef 06/72	6/30/1972	40 CFR 52.269(b)(3)(ii)(A)		
SC	101	Title	RC	7/1/1993 via Res. 94-03	Bef 11/77	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	101	Title	SBC	7/1/1993	12/19/1998	3/26/1990	40 CFR 52.220(c)(179)(i)(B)	11/27/1990	55 FR 49281
MD	102	Definition of Terms			4/23/2018	8/17/2018	40 CFR 52.220(c)(520)(i)(A)(1)	7/2/2019	84 FR 31682
MD	102	Definition of Terms		8/26/2019	(SIP Sub)				
MD	103	Definition of District Boundaries	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)(2)	6/3/1999	64 FR 29790
SB	103	Definition of Terms (Unknown rule - no record except in FR reference)	SBC	None	Bef 11/77	11/4/1977	40 CFR 52.236(e)(3)(i)	1/16/1981	46 FR 3883
SC	104	Reporting of Source Data Analysis	RC			8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	104	Reporting of Source Data Analysis		12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
SC	106	Increments of Progress	RC	12/19/1988 via Res. 94-03	Bef 06/78	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	106	Increments of Progress		12/19/1988	Current	3/26/1990	40 CFR 52.220(c)(179)(i)(B)(i)	11/27/1990	55 FR 49281
MD	107	Certification and Emissions Statements	MD	9/14/1992	Current	11/12/1992	40 CFR 52.220(c)(190)(i)(F)(1)	5/26/2004	69 FR 29880
SC	107	Determination of Volatile Organic Compounds in Coating Material	RC		Bef 3/1/82	3/1/1982	40 CFR 52.220(c)(121)(c)(v)(B)	10/11/1983	48 FR 46046
SC	108	Alternate Emission Control Plans	RC	None	4/6/1990	12/31/1990	40 CFR 52.220(c)(182)(i)(A)(3)	8/30/1993	58 FR 45445
SC	109	Record keeping for Volatile Organic Compound Emissions	RC	None	Bef 09/92	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(6)	4/13/1995	60 FR 18751
SC	201	Permit to Construct	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	201	Permit to Construct	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	202	Temporary Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	202	Temporary Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	203	Permit to Operate	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	203	Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	204	Permit Conditions	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	204	Permit Conditions	SBC	7/25/1977	G-73				
SC	205	Cancellation of Application	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	205	Cancellation of Application	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	206	Posting of Permit to Operate	RC	7/25/1977 via Res.94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	206	Posting of Permit to Operate	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	207	Altering or Falsifying of Permit	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	207	Altering or Falsifying of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	208	Permit for Open Burning	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	208	Permit for Open Burning	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	209	Transfer and Voiding of Permit	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	209	Transfer and Voiding of Permit	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	212	Standards for Approving Permits	RC	7/25/1977 via Res. 94-03	5/1/1987	6/9/1987	40 CFR 52.220(c)(173)(i)(A)(1)	2/3/1989	54 FR 5448
SB	212	Standards for Approving Permits	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	217	Provision for Sampling and Testing Facilities	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	217	Provision for Sampling and Testing Facilities	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	218	Stack Monitoring	RC	7/25/1977 via Res. 94-03	Bef 10/81	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
SO	218	Stack Monitoring	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SB	219	Equipment Not Requiring a Written Permit	SBC	1/28/2019	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	11/9/1978	43 FR 52237
SC	219	Equipment Not Requiring a Written Permit Pursuant to Regulation II	RC	1/28/2019	9/4/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
MD	219	Equipment Not Requiring a Written Permit	MD	1/28/2019	(SIP Sub)				
SC	220	Exemtion, Net Increase in Emissions	RC	11/25/1991 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SC	221	Plans	RC	None	1/4/1985	11/12/1985	40 CFR 52.220(c)(165)(i)(B)(1)	4/17/1987	52 FR 12522
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	2/21/1994	3/31/1995	40 CFR 52.220(c)(216)(i)(A)(2)	2/5/1996	61 FR 4217
MD	221	Federal Operating Permit Requirement	MD	2/28/2011	(SIP Sub)	6/21/2011			
MD	222	Limitation on Potential to Emit	MD	2/28/2011	7/31/1995	10/13/1995	40 CFR 52.220(c)(225)(i)(H)(1)	8/31/2004	69 FR 53005
MD	222	Limitation on Potential to Emit	MD	2/28/2011	(SIP Sub)	6/21/2011			
SC	301.2	Fee Schedules	RC	None	6/3/1983	7/19/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
MD	315	Federal Clean Air Act Section 185 Penalty	MD	10/24/2011	(SIP Sub)	12/14/2011			
SC	401	Visible Emissions	RC	8/26/2019	4/7/1989	3/26/1990	40 CFR 52.220(c)(155)(iv)(B)	1/29/1985	50 FR 3906
MD	401	Visible Emissions	MD	8/26/2019	Sip Sub				
SC	403	Fugitive Dust		7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	403	Fugitive Dust	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	403.1	Respirable Particulate Matter in SVPA	MD	11/25/1996	11/25/1996	3/3/1997	40 CFR 52.220(c)(224)(i)(C)(2)	8/13/2009	74 FR 40750
MD	403.2	Fugitive Dust Control for MDPA	MD	7/22/1996	(SIP Sub)	10/18/1996			
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	404	Particulate Matter, Concentration	RC	7/25/1977 via Res. 94-03	10/5/1979	2/3/1983	40 CFR 52.220(c)(137)(vii)(B)	10/4/1984	49 FR 41028
SB	404	Particulate Matter - Concentration	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 52489
SC	405	Solid Particulate Matter, Weight	RC	7/25/1977 via Res. 94-03	5/7/1976	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	405	Solid Particulate Matter, Weight	SBC	7/25/1977	Current	11/4/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 52489
SB	406	Specific Contaminants	SBC	2/20/1979	7/25/1977	11/4/1977	40 CFR 52.220(c)(42)(xiii)(A)	12/21/1978	43 FR 59489
SC	407	Liquid and Gaseous Air Contaminants	RC	7/25/1977 via Res. 94-03	4/2/1982	8/6/1982	40 CFR 52.220(c)(124)(iv)(A)	11/10/1982	47 FR 50864
SB	407	Liquid and Gaseous Air Contaminants	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	408	Circumvention	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	408	Circumvention	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	409	Combustion Contaminants	RC	7/25/1977 via Res. 94-03	8/7/1981	10/23/1981	40 CFR 52.220(c)(103)(xviii)(A)	7/6/1982	47 FR 29231
SB	409	Combustion Contaminants	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SB	431	Sulfur Content of Fuels	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
SC	431.1	Sulfur Content of Gaseous Fuels	RC	See MD 431	5/6/1983	7/19/1983	40 CFR 52.220(c)(137)(vii)(B)	10/19/1984	49 FR 41028
SC	431.2	Sulfur Content of Liquid Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	431.3	Sulfur Content of fossil Fuels	RC	See MD 431	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	432	Gasoline Specifications		7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	432	Gasoline Specifications	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(B)	9/8/1978	43 FR 40011
MD	442	Usage of Solvents	MD	2/27/2006	Current	10/5/2006	40 CFR 52.220(c)(347)(i)(C)(1)	9/17/2007	72 FR 52791
SC	443	Labeling of Solvents	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	443	Labeling of Solvents				6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	444	Open Fires		9/25/2006	Current	5/8/2007	40 CFR 52.220(c)(350)(B)(1)	10/31/2007	72 FR 61525
SC	461	Gasoline Transfer and Dispensing	RC	1/22/2018	Bef 2/83	2/3/1983	40 CFR 52.220(c)(127)(vii)(B)	5/3/1984	49 FR 18829
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	5/25/1994	7/13/1994	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	461	Gasoline Transfer and Dispensing	MD	1/22/2018	(SIP Sub)	5/18/2018			
SC	462	Organic Liquid Loading	RC	1/22/2018	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	462	Organic Liquid Loading	MD	1/22/2018	5/24/1994	7/13/1994	40 CFR 52.220(c)(198)(i)(E)(1)	5/3/1995	60 FR 21702
MD	462	Organic Liquid Loading	MD	1/22/2018	(SIP Sub)	5/18/2018			
SC	463	Storage of Organic Liquids	RC	1/22/2018	Bef 10/84	10/19/1984	40 CFR 52.220(c)(156)(vii)(A)	1/15/1987	52 FR 1627
MD	463	Storage of Organic Liquids	MD	1/22/2018	11/2/1992	1/11/1993	40 CFR 52.220(c)(191)(i)(C)	5/3/1995	60 FR 21702
MD	463	Storage of Organic Liquids	MD	1/22/2018	(SIP Sub)	5/18/2018			
MD	464	Oil Water Separators		6/12/2014	Current	11/16/2014	40 CFR 52.220(c)(457)(i)(B)(1)	6/5/2015	80 FR 32026
SC	465	Vacuum Producing Devices orSystems	RC	Rescinded & Fed. Neg. Dec 12/21/1994	Bef 5/91	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35759
MD	465	Vacuum Producing Devices or Systems (Rescinded)	MD	Rescinded & Fed. Neg. Dec 12/21/1994	Not SIP	12/29/1994	40 CFR 52.222(a)(1)(iii)	9/11/1995	60 FR 47074
SC	466	Pumps and Compressors	RC	Rescinded & See 1102 10/26/94	Bef 12/83	12/2/1983	40 CFR 52.220(c)(166)(i)(A)(1)	1/15/1987	52 FR 1627
MD	466	Pumps and Compressors (Rescinded)	MD	Rescinded & See 1102 10/26/94	Not SIP	11/30/1994	40 CFR 52.220(c)(39)(ii)(G)	8/19/1999	64 FR 45175
SC	466.1	Valves and Flanges	RC	None	5/2/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	468	Sulfur Recovery Units	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	468	Sulfur Recovery Units	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
SC	469	Sulfuric Acid Units	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	469	Sulfuric Acid Units		7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	471	Asphalt Roofing Operations		12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(210)(i)(C)(2)	2/29/1996	61 FR 7706
SC	472	Reduction of Animal Matter	RC	7/25/1977 via Res. 94-03	G-73	8/11/1980	FR Text	6/9/1982	47 FR 25013
SB	472	Reduction of Animal Matter	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	473	Disposal of Liquid and Solid Wastes	SBC	7/25/1977	G-73	6/6/1977	40 CFR 52.220(c)(39)(ii)(C)	9/8/1978	43 FR 40011
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25/1997	Bef 11/96	11/26/1996	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	474	Fuel Burning Equipment - Oxides of Nitrogen	MD	8/25 1997	Current	3/10/1998	??	??	??
MD	475	Electric Power Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
MD	476	Steam Generating Equipment	MD	8/25/1997	Current	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(1)	1/11/1999	64 FR 1517
SB	480	Natural Gas Fired Control Devices	SBC	2/20/1979	Current	5/23/1979	40 CFR 52.220(c)(51)(xii)(A)	1/27/1981	46 FR 8471

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
SC	481	Spray Coating Operations	RC	1113, 1114, 1115 & 1116	5/5/1978	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	501	General	RC	6/10/2019	Bef 8/80	8/11/1980	FR Text	6/9/1982	47 FR 25013
MD	900	Standards of Performance for New Stationary Sources	MD	2/25/2019	Delegated				
MD	1000	National emissions Standards fro Hazardous Air Pollutants	MD	2/25/2019	Delegated				
SC	1101	Secondary Lead Smelters/Sulfur Oxides (SC Adopted 10/7/77)	RC	None	4/4/1980	8/11/1980	FR Text	6/9/1982	47 FR 25013
SC	1102	Petroleum Solvent Dry Cleaners (SC Amended 12/7/90)	RC	None	12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
MD	1102	Fugitive Emissions of VOC's from Components at Pipeline Transfer Stations	MD	10/26/1994	Current	11/30/1994	40 CFR 52.220(c)(207)(i)(D)	9/27/1995	60 FR 49772
SC	1102.1	Perchloroethylene Dry Cleaning Systems	RC	None	12/7/1990	5/31/1991	40 CFR 52.220(c)(184)(i)(B)(1)	3/24/1992	57 FR 10136
SC	1103	Pharmaceuticals and Cosmetics Manufacturing Operation	RC	None	4/6/1980	4/23/1980	40 CFR 52.220(c)(69)(iii)	7/8/1982	47 FR 29668
MD	1103	Cutback and Emulsified Asphalt	MD	12/21/1994	Current	12/22/1994	40 CFR 52.220(c)(207)(i)(C)(1)	2/5/1996	61 FR 4215
SC	1104	Wood Flat Stock Coating Operations (SC Amended 8/2/91)		None	3/1/1991	10/25/1991	40 CFR 52.220(c)(186)(i)(C)(1)	6/23/1994	59 FR 32354
MD	1104	Organic Solvent Degreasing Operations	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(i)(A)(1)	7/2/2019	84 FR 31682
SC	1105	Fluid Catalytic Cracking Units Oxides of Nitrogen (SC Adopted 9/8/84)	R/	None	9/8/1984	2/6/1985	40 CFR 52.220(c)(159)(v)(C)	7/12/1990	55 FR 28625
MD	1106	Marine & Pleasure Craft Coating Operations	MD	10/24/2016	Current	Aft 10/2016	40 CFR 52.220(c)(498)(i)(B)(1)	2/12/2018	83 FR 5940
SC	1107	Miscellaneous Metal Parts, Products and Coatings Operations.	RC	None	9/6/1991	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66285
SC	1108	Cutback Asphalt	RC	None	2/1/1985	4/12/1985	40 CFR 52.220(c)(160)(i)(E)(1)	7/12/1990	55 FR 28624
SC	1108.1	Emulsified Asphalt	RC	None	Bef 3/84	3/14/1984	40 CFR 52.220(c)(153)(vii)(A)	1/24/1985	50 FR 3339
SC	1110	Emissions from Stationary Internal Combustion Engines.	RC	None	Bef 3/82	3/1/1982	40 CFR 52.220(c)(121)(i)(C)	5/3/1984	47 FR 18822
SC	1111	NOx Emissions from Natural Gas Fired, Fan Type Central Furnaces	RC	None	Bef 10/83	10/27/1983	40 CFR 52.220(c)(148)(vi)(A)	5/3/1984	49 FR 18830
SC	1112	Emissions of Oxides of Nitrogen from Cement Kilns	RC	None	1/6/1984	4/12/1984	40 CFR 52.220(c)(154)(vii)(B)	1/7/1986	51 FR 600
SC	1113	Architectural Coatings	RC	4/23/2012	Bef 7/84	7/10/1984	40 CFR 52.220(c)(155)(iv)(A)	1/24/1985	50 FR 3339
MD	1113	Architectural Coatings	MD	4/23/2012	Current	2/6/2013	40 CFR 52.220(c)(428)(i)(C)(1)	1/3/2014	79 FR 365
MD	1114	Wood Products Coating Operations	MD	1/22/2018	Current	3/3/1997	40 CFR 52.220(c)(518)(i)(A)(1)	7/2/2019	84 FR 31682
SC	1115	Motor Vehicle Assembly and Component Coating Operations	RC	None	3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(1)	12/20/1993	58 FR 66282
MD	1115	Metal Parts & Products Coating Operations	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(518)(i)(A)(2)	2/27/2020	85 FR 11812
MD	1116	Automotive Refinishing Operations	MD	8/23/2010	Current	4/5/2011	40 CFR 52.220(c)(388)(i)(F)(1)	8/19/2012	77 FR 47536
SC	1117	Emissions of Oxides of Nitrogen from Glass Melting Furnaces	RC	None	SC 1/6/1984	12/3/1984	40 CFR 52.220(c)(159)(v)(D)	7/12/1990	55 FR 28624
MD	1117	Graphic Arts	MD	9/28/2009	Current	7/20/2010	40 CFR 52.220(c)(381)(i)(H)(1)	3/1/2012	77 FR 12495
MD	1118	Aerospace Vehicle Parts & Products Coating Operations	MD	10/26/2015	Current	4/21/2016	40 CFR 52.220(c)(485)(i)(B)(1)	6/21/2017	82 FR 28240
SC	1119	Petroleum Coke Calcining Operations Oxides of Sulfur	RC	None	3/2/1979	7/25/1980	40 CFR 52.220(c)(88)(iii)(A)	9/28/1981	46 FR 47451
SC	1120	Asphalt Pavement Heaters	RC	None	8/4/1978	7/25/1980	40 CFR 52.220(c)(65)(ii)	9/28/1981	46 FR 47451
SC	1121	Control of Nitrogen Oxides from Residential Type Natural Gas Fired Water Heaters	RC	None	12/1/1978	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1122	Solvent Metal Cleaners (Degreasers)		None	7/8/1983	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	10/3/1984	49 FR 39057
SC	1123	Refinery Process Turnaround	RC	None	SC 12/7/1990	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(2)	8/11/1992	57 FR 35758
SC	1124	Aerospace Assembly and Component Coating Operations	RC	None	BEF 4/84	4/19/1984	40 CFR 52.220(c)(154)(vii)(A)	1/24/1985	50 FR 3339
SC	1125	Metal Container, Closure and Coil Coating Operations	RC	None	SC 8/2/1991	5/13/1993	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17898
SC	1126	Magnet Wire Coating Operations	RC	None	SC 3/6/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(2)	12/20/1993	58 FR 66286
MD	1126	Municipal Solid Waste Landfills	MD	8/28/2000	Not SIP	12/20/200	40 CFR 60.23		
SC	1128	Paper, Fabric and Film Coating Operations	RC	None	SC 2/7/1992	9/14/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66287
SC	1130	Graphic Arts	RC	None	Bef 5/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(2)	4/14/1994	59 FR 17698
SC	1136	Wood Furniture and Cabinet Coatings	RC	None	Bef 5/92	5/13/1992	40 CFR 52.220(c)(189)(i)(A)(4)	4/14/1994	59 FR 17698
SC	1140	Abrasive Blasting	RC		2/1/1980	4/2/1980	40 CFR 52.220(c)(67)(i)(B)	9/28/1981	46 FR 47451
SC	1141	Control of Volatile Organic Compound Emissions from Resin Manufacturing	RC	None	SC 4/3/1992	9/19/1992	40 CFR 52.220(c)(189)(i)(A)(3)	12/20/1993	58 FR 66286
SC	1141.1	Coatings and Ink Manufacturing	RC	None	11/4/1983	3/14/1984	40 CFR 52.220(c)(153)(vii)(B)	1/24/1985	50 FR 3339
SC	1141.2	Surfactant Manufacturing	RC	None	SC 7/6/1984	10/19/1984	40 CFR 52.220(c)(156)(vii)(A)	1/15/1987	52 FR 1627
SC	1142	Marine Tank Vessel Operations	RC	None		1/28/1992	40 CFR 52.220(c)(187)(i)(C)(1)		
SC	1145	Plastic, Rubber and Glass Coatings	RC	None	SC 1/10/1992	1/11/1993	40 CFR 52.220(c)(191)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1148	Thermally Enhanced Oil Recovery Wells	RC	None	Bef 10/1983	10/27/1983	40 CFR 52.220(c)(148)(vi)(B)	??	??
SC	1151	Motor Vehicle and Mobile Equipment Non-Assembly Line Coating Operations	RC	None	Bef 5/13/1993	5/13/1993	40 CFR 52.220(c)(193)(i)(A)(1)	12/20/1993	58 FR 66286
SC	1153	Commercial Bakery Ovens	RC	None	SC 1/4/1991	5/13/1991	40 CFR 52.220(c)(184)(i)(B)(3)	9/29/1993	58 FR 50850
MD	1157	Boilers and Process Heaters	MD	1/22/2018	5/19/1997	8/1/1997	40 CFR 52.220(c)(248)(i)(D)	4/20/1999	64 FR 19277
MD	1157	Boilers and Process Heaters	MD	1/22/2018	(SIP Sub)	5/23/2018			
SC	1158	Storage, Handling and Transport of Petroleum Coke	RC	None	SC Bef 5/93	3/14/1984	40 CFR 52.220(c)(153)(vii)(B)	1/15/1987	52 FR 1627
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	8/25/1997	3/10/1998	40 CFR 52.220(c)(254)(i)(H)(2)	7/20/1999	64 FR 38832
MD	1158	Electric Power Generating Facilities	MD	6/26/2017	(SIP Sub)	11/13/2017			
SC	1159	Nitric Acid Units - Oxides of Nitrogen	RC	None	SC 12/6/1985	2/10/1986	40 CFR 52.220(c)(168)(i)(H)	7/12/1990	55 FR 28622
MD	1159	Stationary Gas Turbines	MD	9/28/2009	Current	5/17/2010	40 CFR 52.220(c)(379)(i)(E)(1)	10/25/2012	77 FR 65133
MD	1160	Internal Combustion Engines	MD	1/22/2018	10/26/1994	11/30/1994	40 CFR 52.220(c)(207)(i)(D)(3)	11/1/1996	61 FR 56470
MD	1160	Internal Combustion Engines	MD	1/22/2018	(SIP Sub)	5/23/2018			
MD	1161	Portland Cement Kilns	MD	1/22/2018	3/25/2002	6/18/2002	40 CFR 52.220(c)(300)(i)(A)(1)	2/27/2003	68 FR 9015
MD	1161	Portland Cement Kilns	MD	1/22/2018	(SIP Sub)	5/23/2018			
MD	1162	Polyester Resin Operations	MD	1/22/2018	8/27/2007	3/7/2008	40 CFR 52.220(c)(354)(i)(B)(1)	11/24/2008	73 FR 70883

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
MD	1162	Polyester Resin Operations	MD	1/22/2018	Current	5/23/2018	40 CFR 52.220(c)(519)(i)(A)(1)	2/27/2020	85 FR 11812
SC	1164	Semiconductor Manufacturing Operations	RC	None	Bef 10/1993			10/26/1993	58 FR 48459
MD	1165	Glass Melting Furnaces	MD	8/12/2008	Current	12/23/2008	40 CFR 52.220(c)(364)(i)(D)(1)	7/2/2012	77FR 39181
SC	1171	Solvent Cleaning	RC	None	SC 8/2/1991	6/19/1992	40 CFR 52.220(c)(188)(i)(C)(1)	12/20/1993	58 FR66285
SC	1173	Fugitive Emissions of Volatile Organic Compounds	RC	None	12/7/1990	6/18/1992	40 CFR 52.220(c)(188)(i)(c)(1)	12/20/1993	58 FR 66285
SC	1175	Control of Emissions from the Manufacture of Polymeric Cellular (Foam) Products	RC	None	SC Bef 5/91	??	40 CFR 52.220(c)(182)(8)(A)(1)	??	??
SC	1176	Sumps and Wastewater Separators	RC	None	Bef 12/1990	12/31/1990	40 CFR 52.220(c)(182)(i)(A)(1)	10/26/1992	57 FR 48459
MD	1200	General (Federal Operating Permit)	MD	2/28/2011					
MD	1201	Definitions (Federal Operating Permit)	MD	9/26/2005					
MD	1202	Applications	MD	9/26/2005					
MD	1203	Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1205	Modifications of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1206	Reopening, Reissuance and Termination of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1207	Notice and Comment (Federal Operating Permit)	MD	9/26/2005					
MD	1208	Certification (Federal Operating Permit)	MD	9/26/2005					
MD	1209	Appeals (Federal Operating Permit)	MD	9/26/2005					
MD	1210	Acid Rain Provisions of Federal Operating Permits (Federal Operating Permit)	MD	9/26/2005					
MD	1211	Greenhouse Gas Provisions of Federal Operating Permits (Federal Operating Permit)	MD	2/28/2011					
MD	1300	General	MD		3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1300	General	MD	8/22/2016	(SIP Sub)	1/24/2017			
MD	1301	Definitions	MD	9/24/2001	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1301	Definitions	MD	9/24/2001	(SIP Sub)	12/14/2001			
MD	1302	Procedure	MD	8/22/2016	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1302	Procedure	MD	8/22/2016	(SIP Sub)	1/24/2017			
MD	1303	Requirements	MD	9/24/2001	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Requirements	MD	9/24/2001	(SIP Sub)	12/14/2001			
MD	1304	Emissions Calculations	MD	9/24/2001	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1303	Emissions Calculations	MD	9/24/2001	(SIP Sub)	12/14/2001			
MD	1305	Emissions Offsets	MD	8/28/2006	3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1305	Emissions Offsets	MD	8/28/2006	(SIP Sub)	12/29/2006			
MD	1306	Electric Energy Generating Facilities			3/25/1996	7/23/1996	40 CFR 52.220(c)(239)(i)(A)(1)	11/13/1996	61 FR 58133
MD	1306	Electric Energy Generating Facilities		9/24/2001	(SIP Sub)	12/14/2001			
MD	1310	Federal Major Facilities and Federal Major Modifications		8/28/2006	(SIP Sub)	12/29/2006			
MD	1400	General (Emission Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1401	Definitions (Emissions Reduction Credits)	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1402	Emission Reduction Credits Registry	MD		6/28/1995	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1404	Emission Reduction Credit Calculations	MD	6/28/1995	Current	8/10/1995	40 CFR 52.220(c)(224)(i)(C)	1/22/1997	62 FR 3215
MD	1520	Control of Toxic Air Contaminants From Existing Sources	MD	3/25/2019	(SIP Sub)				
MD	1600	Prevention of Significant Deterioration	MD	8/22/2016	(SIP Sub)	1/24/2017			
MD	2001	Transportation Conformity	MD	2/22/1995	??				
MD	2002	General Federal Actions Conformity	MD	10/26/1994	Current	5/10/1996	40 CFR 52.220(c)(231)(i)(C)(1)	4/23/1999	64 FR 19916
MD	FND	Fed. Neg. Dec. - Asphalt Air Blowing	MD		Current	12/20/1994	40 CFR 52.222(a)(1)(ii)	9/11/1995	60 FR 47074
MD	FND	Fed. Neg. Dec. - Air Oxidation Process - SOCMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Chemical Processing & Manufacturing	SBC	5/25/1994	Current	12/29/1994		1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Equipment Leaks from Natural Gas/Gasoline Processing Plants	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Fugitive Emissions From Synthetic Organic chemical Polymer and Resin manufacturing Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Industrial Wastewater	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Large Petroleum Dry Cleaners	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Leaks from Petroleum Refinery Equipment	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Manufacture of High-Density Polyethylene, Polypropylene, and Polystyrene Resins	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	RC	5/25/1994 via Res. 94-03	Unknown				
MD	FND	Fed. Neg. Dec. - Natural Gas/Gasoline Processing Equipment	SBC	5/25/1994	Current	7/13/1994	40 CFR 52.222(a)(1)(i)	1/31/1995	60 FR 38
MD	FND	Fed. Neg. Dec. - Offset Lithography	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Orchard & Citrus Heaters	MD	6/24/1996	??				
MD	FND	Fed. Neg. Dec. - Petroleum Refinery Equipment	MD	8/23/2010	Current	10/22/2010	40 CFR 52.222(a)(1)(vi)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (Business Machines)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Plastic Parts Coating (other)	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Pneumatic Rubber Tire Manufacturing	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153

Agency	Rule #	Rule Title	Effective Area	Rule Book Version	SIP Version	Submit Date	CFR	FR Date	FR Cite
MD	FND	Fed. Neg. Dec - Polymer Manufacturing SOCMI and Polymer manufacturing Equipment Leaks	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Process Unit Turnarounds	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Reactor Processes and Distillation Operations in SOCMI	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Ship Building	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Surface Coating of Cans	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Coils	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Fabrics	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Large Appplianees	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Surface Coating of Magnet Wire	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg. Dec. - Surface Coating Operations at Automotive and Light Duty Truck Assembly Plants	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthesized Pharmaceutical Products	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Batch Processing	MD		Current	8/7/1995	40 CFR 52.222(a)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Industry	MD		Current	8/7/1995	40 CFR 52.222(a)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Manufacturing Reactors	MD		Current	8/7/1995	40 CFR 52.222(A)(1)(iv)	11/1/1996	61 FR 56474
MD	FND	Fed. Neg. Dec. - Synthetic Organic Chemical Polymer and Resin Manufacturing	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed. Neg. Dec. - Vacuum Producing Devices	MD	1/22/2007	Current	7/11/2007	40 CFR 52.222(a)(1)(v)	5/20/2011	76 FR 29153
MD	FND	Fed Neg. Dec - 2 CTGs for Miscellaneous Metal and Plastic Parts Coatings, Table 3—Plastic Parts and Products, and Table 4—Automotive/Transportation and Business Machine Plastic Parts	MD	4/23/2018	Current	7/16/2018	40 CFR 52.220(c)(519)(ii)(A)(1) and 52.222(a)(1)(viii)	2/27/2020	85 FR 11812
MD	FND	Fed Neg Dec - 1 CTG for Miscellaneous Metal and Plastic Parts Coatings (EPA–453/R–08–003), Table 6—Motor Vehicle Materials.	MD	10/22/2018	Current	12/7/2018	40 CFR 52.220(c)(531)(ii)(A)(1) and 52.222(a)(1)(ix)	2/27/2020	85 FR 11812
MD	Title V	Program - Federal Operation Permits: Title V					40 CFR 70 Apx. A California (g)(2)	12/17/2001	66 FR 63503
MD	Title V	Program - Federal Operation Permits: Title V			Unknown		40 CFR 70 Apx. A California (g)(3)	10/15/2002	67 FR 63551
MD	MACT	MACT Delegation (Sections A, F, G, H, I, J, L, M, N, O, Q, R, S, T, U, W, X, Y, AA, BB, CC, DD, EE, GG, HH, II, JJ KK, LL, MM, OO, PP, QQ, RR, SS, TT, UU, VV, WW, XX, YY, CCC, DDD, EEE, GGG, HHH, III, JJJ, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, TTT, UUU, VVV, XXX, AAAA, CCCC, DDDD, EEEE, FFFF, GGGG, HHHH, IIII, JJJJ, KKKK, MMMM, NNNN, OOOO, PPPP, QQQQ, RRRR, SSSS, TTTT,UUUU, VVVV, WWWW, XXXX, YYYY, ZZZZ,AAAAA, BBBBB, CCCCC, DDDDD, EEEEE, FFFFF, GGGGG,HHHHH, IIIII, JJJJJ, KKKKK, LLLLL, MMMMM, NNNNN,PPPPP,QQQQQ, RRRRR, SSSSS,TTTTT,WWWWW,YYYYY, ZZZZZ, BBBBBB, CCCCCC, DDDDDD, EEEEEE, FFFFFF, GGGGGG, HHHHHH, JJJJJJ, LLLLLL, MMMMMM, NNNNNN, OOOOOO, PPPPPP, QQQQQQ, RRRRRR, SSSSSS, TTTTTT, VVVVVV, WWWWWW, XXXXXX, YYYYYY, ZZZZZZ, AAAAAAA, BBBBBBB, CCCCCCC, DDDDDDD, EEEEEEE.	MD		Current				
MD	NESHAP	NESHAPS Delegation (Sections A, C, D, E and M)	SB		N/A				
MD	NSPS	NSPS Delegation (Sections A, D, Da, Db, Dc, E, Ea, Eb, Ec, F, G, H, I, J, Ja, K, Ka, Kb, L, M, N, Na, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AAa, BB, CC, DD, EE, GG, HH, KK, LL, MM, NN, PP, QQ, RR, SS, TT, UU, VV, VVa, WW, AAA, BBB, DDD, FFF,GGG,GGGa, III, JJJ, KKK, LLL, MMM, NNN, OOO, PPP, QQQ, RRR, SSS, TTT, UUU, VVV, WWW, AAAA, CCCC, EEEE, IIII, JJJJ, KKKK.)	MD		Current			4/30/2013	78 FR 25185
MD	FND	19 Source Category FNDs (including Oil & Gas)	MD	10/28/2019	(SIP Sub)	12/20/2019			