

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

Statement of the Legal and Factual Basis

for
Significant Modification to

Federal Operating Permit Number: 13300611

For: National Aeronautics & Space Administration

Facility: NASA GOLDSTONE DEEP SPACE
COMMUNICATIONS COMPLEX

30-day Public Notice start Date: February 22, 2013
30-day Public Notice end Date: March 25, 2013
Submittal Date to EPA/CARB review: February 19, 2013
EPA/CARB 45-day Commenting Period ends: April 8, 2013
Permit Issue date: On or about April 10, 2013

Processing Engineer:

Sheri Haggard

14306 PARK AVENUE, VICTORVILLE, CALIFORNIA 92392
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A. FACILITY IDENTIFYING INFORMATION:

Owner/Company Name: National Aeronautics & Space Administration (NASA)

Owner Mailing Address: 4800 Oak Grove Drive, Pasadena, CA 91109

Facility Name: NASA GOLDSTONE DSCC

Facility Location: Goldstone Lake, Fort Irwin, CA 92311

Mailing Address: ITT/Exelis
P.O. Box 11103
Goldstone, CA 92310

MDAQMD Federal Operating Permit Number: 13300611

MDAQMD Company Number: 0133

MDAQMD Facility Number: 00611

Responsible Official: Steve Slaten; NASA Management Office
sslaten@nmo.jpl.nasa.gov

Title: Site Manager, GDSCC

Phone Number: 818-393-6683

Facility "Site" Contacts: Mark Solheid
mjsolheid@gdsc.nasa.gov

Title: ES&H Analyst

Phone Number: 760-255-8225

Facility "Off Site" Contacts: Christian Benitez
cbenitez@mail.jpl.nasa.gov

Phone Number: 818-354-8653

Jet propulsion laboratory Environmental Affairs
Program Office

SIC Code: 9661 (Radio frequency, deep space tracking)

Facility Location: WGS84 UTM (M) 11517693 E/3906401 N

B. BACKGROUND:

The Federal Clean Air Act Amendments of 1990 established a nation-wide permit to operate program commonly known as "Title V". MDAQMD adopted Regulation XII [Rules 1200 - 1210] and Rule 221 - *Federal Operating Permit Requirement*; [Version in SIP = Current, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217], to implement both the Federal Operating Permit and Acid Rain Permit programs locally and have received Final Program Approval from EPA.

This facility (Goldstone) is subject to the Operating Permit requirements of Title V of the federal Clean Air Act, Part 70 of Title 40 of the Code of Federal Regulations (CFR), and MDAQMD Regulation XII, *Federal Operating Permits*. Goldstone is defined as a federal Major Facility pursuant to District Rule 1201 – *Federal Operating Permit Definition*, as this facility has a Potential to Emit (PTE) greater than 100 tons per year for NO_x, VOC, PM₁₀, and CO, which are the “Major Facility” thresholds for a facility located within the District where it is designated as Federal Ozone Attainment or Unclassified.

Pursuant to Regulation XII, *Federal Operating Permits*, the District has reviewed the terms and conditions of this Federal Operating Permit and determined that they are still valid and correct. This review included an analysis of federal, state, and local applicability determinations for all sources, including those that have been modified or permitted since the issuance of the initial Federal Operating Permit. The review also included an assessment of all monitoring in the permit for sufficiency to determine compliance. This *Statement of Legal and Factual Basis*, pursuant to Rule 1203(B)(1)(a)(i), is intended to assess the adequacy of the existing Title V Permit and explain the District's basis in composing the proposed modification.

In the MDAQMD, state and District requirements are also applicable requirements and are included in the permit. These requirements can be federally enforceable or non-federally enforceable. State and District applicable requirements are designated as such.

Goldstone received its initial Title V permit on July 22, 1997. Page 2 of the Federal Operating Permit represents a complete revision history list for this facility. This Federal Operating Permit was most recently renewed on May 8, 2011. The purpose of this action is for a proposed modification to Goldstone’s Federal Operating Permit, and classifies as a Significant Permit Modification pursuant to District Rule 1201.

The Title V Permit Application for Modification was received on August of 2011. Due to an incomplete application submittal, and staff turnover at Goldstone, the facility submitted several revisions to the original application package on numerous dates. Most notably, on August 16, 2012, the District received a formal request to cancel several pieces of equipment. Instead of modifying the Echo Site Power Plant from prime Permit Units to emergency Permit Units, as proposed in prior application for modification revisions, Goldstone now requested these permits be cancelled altogether, decommissioning the Echo Site Power Plant. These cancellations, including the corresponding diesel fuel storage, paint spray booth and drill are proposed changes to the Title V.

On August 21, 2012, Goldstone submitted a request to officially deem Permit Units B009337, B009338, B009339, and B009340 as “low-use” and Permit Units E004635 and E007893 as “emergency” (all equipment subject to the *ATCM for Diesel PM from Portable CI Engines* (Portable ATCM)). While Goldstone records prove that these Permit Units were committed to the requirements of “low-use” and “emergency” prior to the December 31, 2011 deadline of the Portable ATCM, modification to both the District permits and Title V were needed to correctly reflect this change.

On September 10, 2012, the District received an amendment letter from Goldstone, once again, clarifying their original application for modification request. The letter amends the original proposal of modifying the 15 prime Permit Units by removing those 5 prime Permit Units that have since been cancelled in the August 16th request (decommission of the Echo Site Power Plant). This amendment resulted in the proposal to modify the remaining 10 prime DICE Permit Units at the Mars Site to emergency status (B000272, B000273, B000274, B000275, B000276, B000277, B000278, B000279, B000280, and B000281). This amendment also included all the required Title V application documents.

A summary of all the proposed modifications to Goldstone’s Title V can be viewed in Table 1 below:

Table 1 – Proposed Modifications

District Permit	Equipment Description	Proposed Modification/Application
B000272	Diesel IC Engine (Unit #2C) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000273	Diesel IC Engine (Unit #1C) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000274	Diesel IC Engine (Unit #2B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000275	Diesel IC Engine (Unit #3B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000276	Diesel IC Engine (Unit #1B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000277	Diesel IC Engine (Unit #4B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000278	Diesel IC Engine (Unit #4A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000279	Diesel IC Engine (Unit #3A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000280	Diesel IC Engine (Unit #1A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000281	Diesel IC Engine (Unit #2A) @ Mars Site	Switch Permit Unit from

	Site	“prime” to “emergency” type.
E004635	Diesel IC Engine, Portable, Emergency, Generator (Echo Site)	Designate as “emergency” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
E007893	Diesel IC Engine, Portable, Emergency, Generator (Echo Site)	Designate as “emergency” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009337	Diesel IC Engine, Portable Air Compressor	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009338	Diesel IC Engine, Portable, Air Compressor	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009339	Diesel IC Engine, Portable, Welder	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009340	Diesel IC Engine, Portable, Welder	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B010789	Propane IC Engine, Portable, Generator	Incorporate into the FOP.
E011623	Propane IC Engine, Emergency, Portable, Generator	New Equipment

Statutory and Regulatory Authorities: Pursuant MDAQMD Regulation 12, Program - Federal Operating Permits, a.k.a. Title V (Adopted 7/25/94, Amended 02/22/95, Additional Rules adopted 06/28/95, 7/31/95) and 02/05/96 FR 4217 (Interim Approval), in accordance with Rule 221 - *Federal Operating Permit Requirement*, 40 CFR 52.220(c)(216)(i)(A)(2) - 02/05/96 61 FR 4217 of the Clean Air Act of 1990, the Mojave Desert Air Quality Management District issues this permit.

C. DESCRIPTION OF FACILITY:

Federal Operating Permit (FOP number: 13300611) for NASA Goldstone (Goldstone), which is located near Goldstone Lake, Fort Irwin, California. Goldstone is a deep space communications facility. Because of the critical nature of the mission and the remoteness of the facility, uninterrupted electric power is critical. Therefore, Goldstone has a Site-Wide Uninterruptable Power Supply (SWUPS) in which in the event of a commercial power outage that is less than ten seconds, the SWUPS (batteries) will support the station load. For outages greater than ten seconds, the SWUPS will supply a generator run signal to start the emergency generators. The SWUPS has the capability to support Goldstone for up to one minute. The emergency generators take approximately thirty seconds to assume full station load.

To maintain this reliable electric power, Goldstone is equipped with ten emergency generators.

Six of which are diesel engines, 875 bhp, driving 600 kW electric generators; and, four of which are diesel engines, 1280 bhp, driving 850 kW electric generators.

D. MODIFICATIONS TO CURRENT FEDERAL OPERATING PERMIT:

Pursuant to the District's Title V work plan, large scale changes to non-modification related items will be postponed until permit renewal with the exception of elements regarding Compliance Assurance Monitoring and Periodic Monitoring.

PART I: INTRODUCTORY INFORMATION

This section of the Federal Operating Permit contains general information about the Goldstone facility, including facility identifying information (section A), a description of the facility (section B), and a description of the facility's equipment (section C).

Changes made to this section of the FOP:

- PART I(A), FACILITY IDENTIFYING INFORMATION: Updated Mailing Address by adding "Exelis" after "ITT", and updated the Facility "Site" Contacts to Mr. Mark Solheid.
- PART I(B), DESCRIPTION OF FACILITY: Updated to correctly identify the Site-Wide Uninterruptable Power Supply (SWUPS) which subsequently resulted in the re-designation of the diesel generators from prime to emergency use. All inactive/cancelled equipment was also removed from the summary of equipment table.
- PART I(C), DESCRIPTION OF EQUIPMENT: Updated to correctly identify the re-designation of the diesel generators from prime to emergency. All inactive/cancelled equipment was also removed.

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

This section of the Federal Operating Permit contains requirements applicable to the entire facility and equipment (section A), facility-wide monitoring, recordkeeping, and reporting requirements (section B), and facility-wide compliance conditions (section C).

Changes made to this section of the FOP:

- PART II(A), REQUIREMENTS APPLICABLE TO ENTIRE FACILITY AND EQUIPMENT:
 - Updated section PART II(A)(28) to reflect the most current requirements for *Architectural Coatings*, as required by the most current District Rule 1113 amendment, which was submitted for SIP approval on 9/21/12. This included an update to the VOC content limits for Architectural Coatings. The District incorporates rule amendment changes into Federal Operating Permits on the basis that the local rule has been submitted

to the EPA as a SIP revision pursuant to the alternative permitting authority described in EPA's White Paper Document #2, section (B)(2).

- Updated section PART II(A)(31) to reflect the most current requirements for *Automotive Refinishing Operations*, as required by the most current District Rule 1116 amendment, which is SIP approved as of 08/09/12. This included an update to the VOC content limits for Automotive Coatings, as well as "Most Restrictive VOC Limit" clause, and an Alternative Compliance requirement.
 - Added section PART II(A)(33), *Greenhouse Gas Provisions of Federal Operating Permits*. District Rule 1211, represents the local implementation of EPA's Tailoring Rule. All Federal Operating Permits are being updated to include the requirement of this rule as part of any modification or renewal. District Rule 1211 - *Greenhouse Gas Provisions of Federal Operating Permits* was submitted for SIP approval on 03/24/11. The District incorporates rule amendment changes into Federal Operating Permits on the basis that the local rule has been submitted to the EPA as a SIP revision pursuant to the alternative permitting authority described in EPA's White Paper Document #2, section (B)(2).
 - Added section PART II(A)(34), *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating internal Combustion Engines* (40 CFR 63, subpart ZZZZ). This regulation is applicable to existing, new and reconstructed stationary RICE at major and area sources of hazardous air pollutants (HAP) emissions. Goldstone operates stationary emergency-use RICE, only; all other engines are portable. All Goldstone's stationary emergency-use RICE are deemed "existing" as they all commenced construction prior to June 2006. Goldstone is an area source of HAP emissions. Because these engines are considered existing engines they are not subject to the NSPS requirements for stationary RICE in 40 CFR 60 Subpart IIII or Subpart JJJJ. Goldstone will comply with the NESHAP by complying with the updated permit conditions described in PART III, as applicable to equipment.
 - Added section PART II(A)(35), *National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities* (40 CFR 63, subpart CCCCCC). This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices. Goldstone operates an underground non-retail gasoline tank, and this equipment is subject to 6C; however, the monthly gasoline throughput of this GDF is less than 10,000 gallons; therefore, only the requirements of 40 CFR 63.11116 applies.
- **PART II(B), FACILITY-WIDE MONITORING, RECORDKEEPING, AND REPORTING REQUIREMENTS:**

- Updated section PART II(B)(4)(d), *Compliance Certification Report*, to contain a hard submittal date of June 29th of each year for the postmark in replace of the soft submittal date language requiring submission within 60 days of the anniversary date of the issuance or renewal of the Federal Operating Permit. This change is to limit confusion and in response to EPA’s Title V Audit Findings.

- Updated section PART II(B)(5), *Monitoring Report*, to contain a hard submittal dates as opposed to previous soft date references. Language change was made so that each *Monitoring Report* shall cover the periods from May 30 to November 28 and from November 29 to May 29, and be postmarked by the 30 day of the end of the reporting period. This change is to limit confusion and in response to EPA’s Title V Audit Findings.

- PART II(C), FACILITY-WIDE COMPLIANCE CONDITIONS:

- Added section PART II(C)(10), a requirement to comply with 40 CFR 82 – Protection of Stratospheric Ozone.

- Added section PART II(C)(11), District is now establishing Federally Enforceable Emission Limits for NO_x, as well as the other Nonattainment Air Pollutants/Precursors, VOC, and PM₁₀ for the Goldstone facility in result to the NSR Analysis prompted by the proposed modification of switching the engine use of the Echo Site generators from “prime use” to “emergency use”. For detail on the basis of these limits, please refer to the NSR Preliminary Decision/FOP Preliminary Determination Document in Appendix A.

- Added section PART II(C)(12), a requirement for the submittal of emissions inventory data to the District upon request for the purposes of NSR and EPA’s Consolidated Emissions Reporting Rule. This facility-wide compliance condition is designated as District and State applicable only and is not intended to be federally enforceable.

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

This section of the Federal Operating Permit contains equipment-specific applicable requirements including emission limitations, monitoring and recordkeeping, reporting and testing, and compliance plans.

Changes made to this section of the FOP:

- PART III(A), CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY GENERATORS:

- Updated the permit numbers from “B” type to “E” type which correlates with the use change of “prime use” to “emergency use”. Updated the description of each of the Goldstone facility’s stationary, diesel, emergency generator engines to reflect to most current description of each unit. The purpose of this unit description update is to ensure that the Federal Operating Permit and local district permits match in order to limit confusion.

The operating conditions for these stationary, diesel, emergency generator engines were also updated to include the most current local, state, and federal requirements for this equipment type. The previous conditions were geared for prime use and the change of these engines to emergency constituted a potential emissions change; therefore, this modification required an NSR Analysis inclusive of a Preliminary Decision pursuant to District Rule 1302 – *New Source Review Procedure*. This modification also constituted a Significant Modification to Goldstone’s Federal Operating Permit; therefore, a Preliminary Determination pursuant to District Rule 3005 – *Modifications to Federal Operating Permits* was synonymously conducted. To view the details of the NSR Preliminary Decision/FOP Preliminary Determination, please see Appendix A.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

- PART III(B), CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY FIRE PUMPS:

- Updated the description of each of the Goldstone facility’s stationary, diesel, emergency pump engines to reflect to most current description of each unit. The purpose of this unit description update is to ensure that the Federal Operating Permit and local district permits match in order to limit confusion.

The operating conditions for these stationary, diesel, emergency pump engines were also updated to include the most current local, state, and federal requirements for this equipment type.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

- PART III(C), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, EMERGENCY GENERATORS:

- Updated the description of each of the Goldstone facility’s portable, diesel, emergency generator engines to reflect to most current description of each unit. The purpose of this

unit description update is to ensure that the Federal Operating Permit and local district permits match in order to limit confusion.

The operating conditions for these portable, diesel, emergency pump engines were also updated to include the most current local, state, and federal requirements for this equipment type.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

● PART III(D), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, LOW-USE EQUIPMENT:

○ Updated the description of each of the Goldstone facility's portable, diesel, low-use equipment to reflect to most current description of each unit. The purpose of this unit description update is to ensure that the Federal Operating Permit and local district permits match in order to limit confusion.

The operating conditions for these portable, diesel, low-use equipment were also updated to include the most current local, state, and federal requirements for this equipment type. The proposed modifications of "low-use" designation to Permit Units B009337, B009338, B009339, and B009340, also do not result in an emission increase. Pursuant to Title 17 CCR 93116.3(b)(1)(B), owners of portable diesel-fueled engines that are not certified and are exclusively "emergency" or are qualified as "low-use", that is, operated less than 80 hours or less in a calendar year, and have committed by December 31, 2011 to removing these engines from service or replacing these engines no later than January 1, 2017, are exempt from the Diesel PM Fleet Requirements of the Portable ATCM (Title 17 CCR 93116.3(c)(3)(C)). Goldstone records prove that these Permit Units were committed to the requirements of "low-use" and "emergency" prior to the December 31, 2011 deadline of the Portable ATCM; however, modification to both the District permits and FOP language are needed to correctly reflect this change.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

● PART III(E), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, PRIME GENERATOR:

○ Added this portable, propane, prime generator to Goldstone's Federal Operating Permit. The proposed modification to incorporate this Permit Unit, (B010789), regards a past permitting action in which Goldstone was issued a District permit for a Propane, IC Engine, Portable, Generator, but failed to be incorporated into Goldstone's FOP. There

is little information on how this past permitting action occurred; however, both Goldstone and the District wish to correct this discrepancy along with the other corresponding modifications. The addition of this Permit Unit will not result in an emissions increase based on the NSR Analysis of the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A.

The operating conditions for this portable, propane, prime generator was updated to include the most current local, state, and federal requirements for this equipment type.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

- PART III(F), CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, EMERGENCY GENERATOR:

- Added this portable, propane, emergency generator to Goldstone's Federal Operating Permit. Goldstone proposes a new Propane IC Engine, Emergency, Portable, Generator (E011623) as a modification to their Federal Operating Permit. This proposed application will not result in an emissions increase based on the NSR Analysis of the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A.

The operating conditions for this portable, propane, emergency generator are representative of the most current and stringent of local, state, and federal requirements for this equipment type and address any applicable periodic monitoring or compliance assurance monitoring.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

- PART III(G), CONDITIONS APPLICABLE TO THE FOLLOWING DIESEL FUEL STORAGE TANKS:

- Updated the description of Goldstone's diesel fuel storage tanks to reflect to most current description. The purpose of this unit description update is to ensure that the Federal Operating Permit and local district permit match in order to limit confusion.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

- PART III(H), CONDITIONS APPLICABLE TO THE FOLLOWING GASOLINE DISPENSING FACILITY, NON RETAIL, (ECHO SITE):

- Updated the description of Goldstone’s gasoline dispensing facility to reflect to most current description. The purpose of this unit description update is to ensure that the Federal Operating Permit and local district permit match in order to limit confusion.

Please refer to the NSR Preliminary Decision/FOP Preliminary Determination described in Appendix A, section (B)(8), for a for complete rule applicability discussion and section (C)(2) for CAM Analysis.

PART IV: STANDARD FEDERAL OPERATING PERMIT CONDITIONS

This section of the Federal Operating Permit contains standard federal operating permit conditions.

Changes made to this section of the FOP:

- No changes were made to this section.

PART V: OPERATIONAL FLEXIBILITY

This section of the Federal Operating Permit contains information on Off Permit Changes.

Changes made to this section of the FOP:

- No changes were made to this section.

PART VI: CONVENTIONS, ABBREVIATIONS, DEFINITIONS

Changes made to this section of the FOP:

- No changes were made to this section.

E. CONCLUSIONS AND RECOMMENDATION:

The District has reviewed the proposed modifications and application for Goldstone and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed modifications and application are in compliance with all applicable District, state, and federal rules and regulations as proposed when operated in the terms of the permit conditions given herein, and the attached revised FOP. The preliminary decision (pursuant to District Rule 1303) and the preliminary determination (pursuant to District Rule 1203) was released for public comment and publicly noticed pursuant to District Rule 1302 and 1207. To view the NSR Preliminary Decision/FOP Preliminary Determination please see Appendix A. To view the

public notice please see Appendix B.

Therefore, it is recommended that this Title V - Federal Operating Permit be Re-Issued to satisfy those requirements on April 10, 2013 for the period May 8, 2011 through May 8, 2016.

30-day Public Notice start Date: February 22, 2013
30-day Public Notice end Date: March 25, 2013
Submittal Date to EPA/CARB review: February 19, 2013
EPA/CARB 45-day Commenting Period ends: April 8, 2013
Permit Issue date: On or about April 10, 2013

APPENDIX A

NSR Preliminary Decision/FOP Preliminary Determination Document

MOJAVE DESERT
AIR QUALITY MANAGEMENT DISTRICT

New Source Review Document – *Preliminary Decision*
FOP Significant Modification – *Preliminary Determination*

for
Significant Modification to

Federal Operating Permit Number: 13300611

For: National Aeronautics & Space Administration

Facility: NASA GOLDSTONE DEEP SPACE
COMMUNICATIONS COMPLEX

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Processing Engineer:

Sheri Haggard

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NSR Document – Preliminary Decision
FOP Mod – Preliminary Determination
NASA Goldstone Deep Space Communications Complex
December 12, 2012

A. Introduction

1. Application and Setting

NASA Goldstone Deep Space Communications Complex (Goldstone), Federal Operating Permit (FOP) number 13300611, located near Goldstone Lake in Fort Irwin, California is a deep space communications facility. Because of the critical nature of the mission and the remoteness of the facility, uninterrupted electric power is critical.

The Mojave Desert Air Quality Management District (MDAQMD or District) received applications for modification to 15 Permit Units (B002057, B000266, B000267, B000268, B000269, B000272, B000273, B000274, B000275, B000276, B000277, B000278, B000279, B000280, and B000281) requesting that these prime, diesel-fired engines be changed to emergency status along with an additional application for the addition of a new, emergency, portable, propane-fired, internal combustion engine powering an electrical generator in February of 2012 (please see Appendix A for submitted application). Goldstone proposed using the 15 diesel-fired engines only as emergency back-up to failure of their Site-Wide Uninterruptable Power Supply (SWUPS), which is a battery-powered, back-up power source to commercial power. The 15 Permit Units consist of two diesel-fired, engine power plants located at two separate sites within the Goldstone facility. The Echo Site Power Plant consists of Permit Units B002057, B000266, B000267, B000268, and B000269. The Mars Site Power Plant consists of B000272, B000273, B000274, B000275, B000276, B000277, B000278, B000279, B000280, and B000281.

Due to an incomplete application submittal, and staff turnover at Goldstone, the facility submitted revisions to the original application package on numerous dates. Most notably, on August 16, 2012, the District received a formal request to cancel the following equipment:

Table 1 – *Summary of Requests to Cancel*

**NSR Document – Preliminary Decision
FOP Mod – Preliminary Determination
NASA Goldstone Deep Space Communications Complex
December 12, 2012**

District Permit	Equipment Description	Reason for Cancellation
A007644	Sandblasting Unit as Mars Site	Equipment will no longer be used and will be removed from facility.
B000266	Echo Site Diesel ICEs driving 600 kW electrical generators (serials 66B1184, 66B651, 66B2906, 66B355, 67B2324). Engines will be incapable of starting due to removal of underground and above ground fuel tanks.	Equipment will no longer be used.
B000267	Echo Site Diesel ICEs driving 600 kW electrical generators (serials 66B1184, 66B651, 66B2906, 66B355, 67B2324). Engines will be incapable of starting due to removal of underground and above ground fuel tanks.	Equipment will no longer be used.
B000268	Echo Site Diesel ICEs driving 600 kW electrical generators (serials 66B1184, 66B651, 66B2906, 66B355, 67B2324). Engines will be incapable of starting due to removal of underground and above ground fuel tanks.	Equipment will no longer be used.
B000269	Echo Site Diesel ICEs driving 600 kW electrical generators (serials 66B1184, 66B651, 66B2906, 66B355, 67B2324). Engines will be incapable of starting due to removal of underground and above ground fuel tanks.	Equipment will no longer be used.
B002057	Echo Site Diesel ICEs driving 600 kW electrical generators (serials 66B1184, 66B651, 66B2906, 66B355, 67B2324). Engines will be incapable of starting due to removal of underground and above ground fuel tanks.	Equipment will no longer be used.
B009478	Portable Hydraulic Drill powered by 64 bhp DICE (serial 1069512).	Equipment will no longer be used and will be removed from facility.
S000283	Paint Spray Booth with a 5 bhp blower motor.	Equipment will no longer be used.
T003004	Two 25,000 gallon Diesel Fuel Storage Tanks	Equipment will be removed.

Instead of modifying the Echo Site Power Plant from prime Permit Units to emergency Permit Units, Goldstone now requested these permits be cancelled altogether, decommissioning the

NSR Document – Preliminary Decision
FOP Mod – Preliminary Determination
NASA Goldstone Deep Space Communications Complex
December 12, 2012

Echo Site Power Plant. These cancellations, including the corresponding diesel fuel storage, paint spray booth and drill are proposed changes to the FOP.

On August 21, 2012, Goldstone submitted a request to officially deem Permit Units B009337, B009338, B009339, and B009340 as “low-use” and Permit Units E004635 and E007893 as “emergency” (all equipment subject to the *ATCM for Diesel PM from Portable CI Engines* (Portable ATCM)). While Goldstone records prove that these Permit Units were committed to the requirements of “low-use” and “emergency” prior to the December 31, 2011 deadline of the Portable ATCM, modification to both the District permits and FOP were needed to correctly reflect this change.

On September 10, 2012, the District received an amendment letter from Goldstone clarifying the original request. The letter amends the original proposal of modifying the 15 prime Permit Units by removing those 5 prime Permit Units that have since been cancelled in the August 16th request (decommission of the Echo Site Power Plant). This amendment resulted in the proposal to modify the remaining 10 prime DICE Permit Units at the Mars Site to emergency status (B000272, B000273, B000274, B000275, B000276, B000277, B000278, B000279, B000280, and B000281). This amendment also included all the required Title V application documents.

Pursuant to District Rule 1301 – *New Source Review Definitions*, Goldstone is an existing Major Facility for CO, NO_x, PM₁₀, and VOC. The MDAQMD is classified as ‘attainment/unclassified’ by USEPA and CARB for CO and SO₂; therefore, pursuant to District Rule 1303 – *New Source Review Requirements*, the proposed equipment is subject to both the BACT and Offset requirements for the Nonattainment Air Pollutant/Precursors of NO_x and VOC (ozone Precursors), as well as PM₁₀. Subsequently, the MDAQMD is issuing this New Source Review Document with a preliminary decision on the application submitted by Goldstone pursuant to District Rule 1302 – *New Source Review Procedure*, section (D)(1). As required by District Rule 1302, this New Source Review Document will review the proposed equipment, evaluating worst-case or maximum air quality impacts and establishing control technology requirements and related air quality permit conditions. This document represents the preliminary, pre-construction compliance review of the proposed project to determine whether construction and operation of the proposed project will comply with all applicable MDAQMD, state and federal rules and regulations.

In addition, Goldstone is defined as a federal Major Facility pursuant to District Rule 1201 – *Federal Operating Permit Definitions*. The proposed modifications classifies as a Significant Modification to Goldstone’s Federal Operating Permit (FOP). Pursuant to District Rule 3005 – *Modifications of Federal Operating Permits*, section (C)(2), this document serves as the preliminary determination to issue Goldstone the modified FOP, inclusive of the proposed changes. This preliminary determination will be submitted to USEPA and CARB for review on February 19, 2013.

2. Description of Project

The applicant proposes to make the following modifications to the Permit Units and subsequent FOP as follows:

Table 2 – Proposed Modifications

District Permit	Equipment Description	Proposed Modification/Application
B000272	Diesel IC Engine (Unit #2C) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000273	Diesel IC Engine (Unit #1C) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000274	Diesel IC Engine (Unit #2B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000275	Diesel IC Engine (Unit #3B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000276	Diesel IC Engine (Unit #1B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000277	Diesel IC Engine (Unit #4B) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000278	Diesel IC Engine (Unit #4A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000279	Diesel IC Engine (Unit #3A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000280	Diesel IC Engine (Unit #1A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
B000281	Diesel IC Engine (Unit #2A) @ Mars Site	Switch Permit Unit from “prime” to “emergency” type.
E004635	Diesel IC Engine, Portable, Emergency, Generator (Echo Site)	Designate as “emergency” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
E007893	Diesel IC Engine, Portable, Emergency, Generator (Echo Site)	Designate as “emergency” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009337	Diesel IC Engine, Portable Air Compressor	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009338	Diesel IC Engine, Portable, Air Compressor	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B009339	Diesel IC Engine, Portable, Welder	Designate as “low-use” on permit pursuant to Title 17 CCR

		93116.3(b)(1)(B).
B009340	Diesel IC Engine, Portable, Welder	Designate as “low-use” on permit pursuant to Title 17 CCR 93116.3(b)(1)(B).
B010789	Propane IC Engine, Portable, Generator	Incorporate into the FOP.
E011623	Propane IC Engine, Emergency, Portable, Generator	New Equipment

The first ten proposed modifications to Permit Units B000272, B000273, B000274, B000275, B000276, B000277, B000278, B000279, B000280, and B000281, requests that the permit type of these Permit Units be changed from “prime” to “emergency”. These ten modifications do not result in an emissions increase. To view the emission change calculations, see section (B)(1) below. The proposed permit language for these modifications can be seen in section (B)(10).

The proposed modifications of “emergency” and “low-use” designation to Permit Units E004635, E007893, B009337, B009338, B009339, and B009340, also do not result in an emission increase. Pursuant to Title 17 CCR 93116.3(b)(1)(B), owners of portable diesel-fueled engines that are not certified and are exclusively “emergency” or are qualified as “low-use”, that is, operated less than 80 hours or less in a calendar year, and have committed by December 31, 2011 to removing these engines from service or replacing these engines no later than January 1, 2017, are exempt from the Diesel PM Fleet Requirements of the Portable ATCM (Title 17 CCR 93116.3(c)(3)(C)). Goldstone records prove that these Permit Units were committed to the requirements of “low-use” and “emergency” prior to the December 31, 2011 deadline of the Portable ATCM; however, modification to both the District permits and FOP language are needed to correctly reflect this change. To view the emission change calculations, see section (B)(1) below. The proposed permit language for these modifications can be seen in section (B)(10).

The proposed modification to Permit Unit, B010789, regards a past permitting action in which Goldstone was issued a District permit for a Propane, IC Engine, Portable, Generator, but failed to be incorporated into Goldstone’s FOP. There is little information on how this past permitting action occurred; however, both Goldstone and the District wish to correct this discrepancy along with the other corresponding modifications. The addition of this Permit Unit will not result in an emissions increase. The emission change calculations will be discussed in section (B)(1) in conjunction with the proposed application below, the addition of the new, Propane IC Engine, Emergency, Portable, Generator (E011623).

Lastly, Goldstone proposes a new Propane IC Engine, Emergency, Portable, Generator (E011623). This proposed application will not result in an emissions increase. The emission change calculations will be discussed in section (B)(1).

B. NSR Analysis

1. Criteria Emissions

District Rule 1304 – *Emissions Calculations*, provides the procedures and formulas to calculate emission increases and decreases for new or modified Facilities. Section (A)(1)(a)(iii), of this rule, states that District Rule 1304 shall determine the Potential to Emit of new or modified Facilities and Emission Unit(s). Pursuant to District Rule 1304, the emission change for a new or modified Facility or Emissions Unit(s) shall be calculated, in pounds per day, by subtracting Historic Actual Emission from Proposed Emissions (section (B)(1)(a)):

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

For a modified Facility, such as in the case of Goldstone, Proposed Emissions shall be equal to the Potential to Emit as defined in District Rule 1301– *NSR Definitions*, section (UU). Section (UU) of District Rule 1301 specifically states that Potential to Emit is the maximum capacity of a Facility or Emissions Unit(s) to emit any Regulated Air Pollutant under its physical and operational design. It also states that any physical or operational limitation on the capacity of the Facility or Emissions Unit(s) to emit an Air Pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processes, shall be treated as part of its design only if the limitation or the effect it would have on emissions is Federally Enforceable.

District Rule 1304, section (D)(2)(a)(iv), allows Historic Actual Emissions, in the case of a modified Facility, as in the case of Goldstone, to be equal to the Potential to Emit for that Emission Unit, as indicated by a Federally Enforceable Emissions Limit, if all the emissions from that Emissions Unit have been previously offset in a documented prior permitting action pursuant to Regulation XIII – NSR, or prior rules 203.1, 203.2, 213, 213.1, 213.2 and 213.3.

In the case of Goldstone, there is a documented NSR permitting action from April 20, 1990, in which the NO_x emissions from the prime diesel-fired engines of the Echo and Mars sites were capped at 250 tons per year. This NO_x emission limit was in response to documented NSR modeling which fulfilled and met the requirements of Regulation XIII. The District permits of these engines (the Echo and Mars Sites), and the corresponding FOP incorporated this 250 tons per year NO_x limit as Federally Enforceable. While the specific language of this Federally Enforceable limit suggests it was specific to those generators of the Echo and Mars Sites, it is evident that permitting actions later on in Goldstone’s history assumed that the 250 tons per year of NO_x was actually a facility-wide limit, not an equipment specific limit. This may have been assumed because the diesel-fired engines at Echo and Mars Sites represent the original permitting action for Goldstone, meaning that these engines represented the entirety of permitted equipment for Goldstone. To clear up any discrepancies in the permitting actions since then and address the current proposed propane generator, and the existing propane generator that was not picked up on the FOP, the District is now establishing Federally Enforceable Emission Limits for NO_x, as well as the other Nonattainment Air Pollutants/Precursors, VOC, and PM₁₀. The calculation of these Federally Enforceable Emission Limits will be based on the April 20, 1990

NSR modeling of the NOx limit (250 tpy). The 250 tons per year NOx limit will be used as a surrogate for the other pollutants of concern (VOC and PM10), with the assumption that the limitation of NOx in result to the 1990 NSR modeling, subsequently limited these other pollutants. This method takes the ratio of the Mars and Echo Sites, the original Facility PTE, to the NOx limit of 250, then applies this ratio to the emissions of these engines for the other pollutants to calculate the facility-wide limit, Federally Enforceable Emission Limits. These facility-wide, Federally Enforceable Emission Limits can be viewed in Table 4, below.

Table 3 – *Facility-wide Emission Limits*

Pollutant	Limit (pounds per year)	Limit (tons per year)
NOx	5000	250
VOC	48000	24
PM10	36000	18

Using the emission change calculations required by District Rule 1304, as described above, the emission change for all past and future modifications to Goldstone will be as follows:

Table 4 – *Emission Change Calculations (pounds per day)*

Pollutant	Proposed Emissions	Historic Actual Emissions	Emissions Change*
NOx	5000	5000	0
VOC	48000	48000	0
PM10	36000	36000	0

*Emissions Change = (Proposed Emissions) – (Historic Actual Emissions) pursuant to District Rule 1304, section (B)(1)(a).

Goldstone’s Proposed Emissions shall be equal to the Potential to Emit (as defined in District Rule 1301, section (UU)), which states that a Potential to Emit is equal to a Federally Enforceable operational limitation, these Federally Enforceable Emission Limits are defined in Table 4.

Goldstone’s Historic Actual Emissions are also equal to the Potential to Emit for that Emission Unit, pursuant to District Rule 1304, section (D)(2)(a)(iv), as these Potential to Emit values are Federally Enforceable Emission Limits that have been previously fulfilled by NSR in April of 1990, and found to meet the NSR requirements of XIII, the Federally Enforceable Emission Limits are defined in Table 4, were established by using the 1990 NSR modeling of the NOx limit (250 tpy) as a surrogate for the other pollutants of concern (VOC and PM10), with the assumption that the limitation of NOX, subsequently limits these other pollutants.

2. *Control Technology Evaluation*

Best Available Control Technology (BACT) is required for a each new or Modified Permit Unit at a Modified Facility that emits, or has the Potential to Emit, twenty-five (25) tons per year or more of any Nonattainment Air Pollutant or its Precursors (District Rule 1303(A)(3)). Goldstone has a facility PTE in excess of twenty –five (25) tons per year for the Nonattainment Air

Pollutant and Precursors of NO_x, VOC, and, PM10; therefore, the proposed application for a new Propane IC Engine, Emergency, Portable, Generator (E011623) shall be equipped with BACT pursuant to District Rule 1303.

The District has determined that BACT for a stationary, emergency, propane-fired, internal combustion engine is meeting the emission standards for new nonroad spark-ignition engines for the same model year and maximum engine power for all pollutants.

Goldstone proposes that BACT will be achieved by installing an engine which has been issued a USEPA Certificate of Conformity for achieving the emission standards for new nonroad spark-ignition engines for the same model year and maximum engine power for all pollutants.

3. Alternative Siting

Pursuant to the requirements in District Rule 1302 B(1)(a)(iii), an analysis of Alternative Siting is not required as the proposed equipment does not qualify as an application for a new Major Facility, nor is it a Major Modification.

4. Class I Area Visibility Protection

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

5. Air Quality Impact Analysis

District Rule 1302, section (C)(2)(b) requires that any new or Modified Facility located in an area classified by USEPA as attainment or unclassifiable shall determine if the Facility will cause or contribute to a violation of the National Ambient Air Quality Standards (NAAQS). The proposed modification, discussed herein, do not cause an increase in emissions, and subsequently, will not contribute to a violation of the NAAQS.

6. Toxic Impact Assessment

a. District Rule 1320:

Pursuant to District Rule 1320 – *New Source Review for Toxic Air Contaminants*, Goldstone is subject to both State and Federal Toxic New Source Review, as Goldstone is a Modified Facility (or Emissions Units) which has the potential to emit a Toxic Air Contaminant, as well contains Emissions Units which are subject to an Airborne Toxic Control Measure (State T-NSR), and Goldstone also has the potential to emit 10 tons per year of any single Hazardous Air Pollutant (Federal T-NSR). Pursuant to the requirements of District Rule 1320, an applicability analysis of state and federal air toxic regulations was conducted for the proposed equipment (State T-

NSR and Federal T-NSR, respectively). The State T-NSR and Federal T-NSR analyses are described below:

1. State T-NSR:

District Rule 1301 defines Emissions Unit as any article, machine, equipment, other contrivance or combination thereof which emits or has the Potential to Emit any Regulated Air Pollutant. The Goldstone represents Emissions Units which consist of both stationary and portable, diesel-fired, internal combustion engines. Stationary, diesel-fired, internal combustion engines are subject to the state's *Airborne Toxic Control Measure for Stationary Compression Ignition Engines* (Stationary ATCM) [Title 17 CCR 93115]. Portable, diesel-fired, internal combustion engines are subject to the state's *Airborne Toxic Control Measure for Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater* (Portable ATCM) [Title 17 CCR 93116]. Section (E)(1)(b) of District Rule 1320 requires that if any ATCM applies to the proposed equipment, the requirements of that ATCM shall be added to the District permit. All affected Emission Units of this modified facility have been updated to correctly reflect the requirements of either the Stationary or Portable ATCM, as applicable. These changes to the District permit language can be seen in section (B)(10), below.

Pursuant to District Rule 1320, section (E)(2), State T-NSR also requires an Emission Unit Prioritization Score. In this case Emission Unit defines the Modified Facility of Goldstone inclusive the application for a new Propane IC Engine, Emergency, Portable, Generator (E011623). To fulfill this requirement, an Emission Unit Prioritization Score was calculated totaling carcinogenic effects, non-carcinogenic acute effects, and non-carcinogenic chronic effects for the Modified Facility (Emissions Units). The Emission Unit Prioritization Score was calculated using HARP software, which is consistent with the *CAPCOA Facility Prioritization Guidelines*, and is based on the most conservative receptor selection. The closest receptor to the proposed equipment location is the residential area of the Fort Irwin National Training Center, located approximately 7,348 meters southeast of the Goldstone Facility entrance (please refer to Appendix B for the Emission Unit Prioritization and corresponding HARP data). Please note that the actual location of the emitting equipment is located even further from any receptors. The toxic emissions data was entered into HARP as two devices. The first device represents all emissions for diesel-fired equipment, and is based on diesel particulate as the toxic pollutant driver. The second device represents the two propane-fired equipment units, and uses formaldehyde as the toxic pollutant driver. The toxic emissions for all equipment were based on the operational limits of each piece of equipment. Based on these operational limitations, the diesel particulate emissions for Device 1 (all diesel-fired equipment) are 563 pounds per year and the formaldehyde emissions for Device 2 (all propane-fired equipment) are 6×10^{-06} . As shown in Table 5, the total Prioritization Scores for the Modified Facility is less than one (1), and therefore, categorizes Goldstone as 'Low Priority'. Pursuant to District Rule 1320, section (E)(2)(b), no further State T-NSR action is required.

<i>Table 5 – Modified Facility Prioritization Score</i>				
Receptor Distance (in meters)	Receptor Type	Toxic Effect	Total Prioritization Score	Prioritization Category (Low, Intermediate, or High)
7,348	Resident	Carcinogenic	0.284	Low
		Non-carcinogenic Acute	0.000	Low
		Non-carcinogenic Chronic	0.002	Low

2. Federal T-NSR:

Pursuant to section (F)(1) of District Rule 1320, the Modified Facility/Emissions Units were analyzed to determine if any current, enforceable Maximum Achievable Control Technology (MACT) standards apply. This analysis yielded three applicable MACT standards: (1) 40 CFR 63, Subpart ZZZZ – *National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating internal Combustion Engines (NESHAP)*; (2) 40 CFR 60, Subpart III – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (IC NSPS)*; and, (3) 40 CFR 60, Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (SI NSPS)*. District Rule 1320, section (F)(1)(b), requires that if any MACT applies to the Emissions Units, the requirements of that MACT shall be added to the District permit. All affected Emissions Units of this Modified Facility have been updated to correctly reflect the requirements of the applicable MACT, CI NSPS, or SI NSPS. These changes to the District permit language can be seen in section (B)(10), below.

b. District Rule 1520:

District Rule 1520 – *Control of Toxic Air Contaminants from Existing Sources* applies to Goldstone, as they are an existing facility that has a facility PTE greater than ten (10) tons per year for VOC, PM, and NO_x, as well as a PTE to emit a TAC (Section (B)(1)(a) and (c)). Goldstone’s most recent (2011 emission year) Comprehensive Emission Inventory Report (CEIR) was incomplete; therefore, their Potential to Emit for currently permitted equipment was utilized in lieu of the CEIR to fulfill the requirements of section (D)(1)(b)(i) of District Rule 1520. Therefore, the Toxic ‘Hot Spots’ Program Analysis pursuant to section (E) of District Rule 1520, is synonymous with the Prioritization Scoring discussed above, as required by District Rule 1320. The Modified Facility Prioritization Scores are represented in Table 5, above. As illustrated in Table 5, all three Modified Facility Prioritization Scores for Goldstone are less than one (1); therefore, categorizes Goldstone as ‘Low Priority’. Based on the requirements of District Rule 1520, section (E)(1)(b), no further analysis is required.

7. Rules and Regulations Applicable to the Proposed Project

District Rules

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Rule 201/203 – *Permits to Construct/Permit to Operate*. Any equipment which may cause the issuance of air contaminants must obtain authorization for such construction from the Air Pollution Control Officer. Goldstone is in compliance with this rule as they appropriately applied for a District permit for all new equipment and maintains District permits for all residing equipment.

Rule 204 – *Permit Conditions*. To assure compliance with all applicable regulations, the Air Pollution Control Officer (Executive Director) may impose written conditions on any permit. The District permit conditions listed in section (B)(10) are written to ensure Goldstone complies with all applicable regulations.

Rule 206 – *Posting of Permit to Operate*. Equipment shall not operate unless the entire permit is affixed upon the equipment or kept at a location for which it is issued and will be made available to the District upon request.

Rule 207 – *Altering or Falsifying of Permit*. A person shall not willfully deface, alter, forge, or falsify any issued permit.

Rule 209 – *Transfer and Voiding of Permits*. Goldstone shall not transfer, whether by operation of law or otherwise, either from one location to another, from one piece of equipment to another, or from one person to another. When equipment which has been granted a permit is altered, changes location, or no longer will be operated, the permit shall become void.

Rule 210 – *Applications*. Goldstone provided all the required information to correctly address the proposed equipment pursuant to this rule, although there were several instances in which additional information were required, in which the thirty (30) day clock was restarted.

Rule 212 – *Standards for Approving Permits*. This rule establishes baseline criteria for approving permits by the AVAQMD for certain projects. In accordance with these criteria, the proposed modifications and application does not cause issuance of air contaminants in violation of Sections 41700 or 41701 of the State Health and Safety code.

Rule 221 – *Federal Operating Permit Requirement*. Goldstone is in compliance with this rule, as they currently hold and maintain a Federal Operating Permit. While their actual emissions are expected to be vastly below the applicable thresholds of Regulation XII, Goldstone requests to keep their Federal Operating Permit, and has not volunteered to the emission limitations of Section (B) of District Rule 221.

Rule 301 – *Permit Fees*. The proposed equipment (E011623) will increase Goldstone's annual permit fees by the amount described in section (E)(7)(g)(i).

Rule 401 – *Visible Emissions*. This rule limits visible emissions opacity to less than 20 percent (or Ringlemann No. 1). In normal operating mode, visible emissions are not expected to exceed 20 percent opacity.

Rule 402 – *Nuisance*. This rule prohibits facility emissions that cause a public nuisance. The proposed modifications and associated equipment is required by permit condition to employ good engineering and operational principles in order to minimize emissions and the possibility of a nuisance.

Rule 408 – *Circumvention*. This rule prohibits hidden or secondary rule violations. The proposed modifications as described is not expected to violate Rule 408.

Rule 430 – *Breakdown Provisions*. Any Breakdown which results in a violation to any rule or regulation as defined by Rule 430 shall be properly addressed pursuant to this rule.

Rule 900 – Standards of Performance for New Stationary Sources (NSPS). Rule 900 adopts all applicable provisions regarding standards of performance for new stationary sources as set forth in 40 CFR 60. Goldstone is subject to 40 CFR 60, Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines* and 40 CFR 60, Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines*; therefore, the associated equipment of this modified Facility is expected to comply with all applicable provisions of these NSPS. Goldstone will comply with Rule 900 and subsequently all applicable NSPS by complying with the permit conditions specified below in section (B)(10).

Regulation X – *National Emission Standards for Hazardous Air Pollutants*. Pursuant to Regulation X, Goldstone is required to comply with all applicable ATCMs, which, in the case of this Modified Facility, is Title 17 CCR 93115 – *Airborne Toxic Control Measure for Stationary Compression Ignition Engines (Stationary ATCM)* and Title 17 CCR 93116 – *Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater*. Goldstone will comply with the requirements of these ATCMs by complying with the updated permit conditions specified in section (B)(10), below.

Regulation XII – *Title V Permits*

This regulation contains requirements for sources which must have a FOP. Goldstone currently has a FOP and is expected to comply with all applicable rules and regulations.

Rule 1201 – *Federal Operating Permit Definitions*. Goldstone is defined as a federal Major Facility pursuant to this rule.

Rule 1203 – *Federal Operating Permits*. This document represents the preliminary determination for the proposed modifications to Goldstone’s FOP. The revised FOP and Statement of Legal and Factual Basis will also be included with this submission as required by section (B)(1)(a). This proposed Significant Modification will also be properly noticed pursuant to District Rule 1207, as required.

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Rule 1205 – *Modifications of Federal Operating Permits*. The proposed equipment classifies as a Significant Modification to Goldstone’s Federal Operating Permit (FOP), and subsequently, this significant permit modification is issued in accordance with the provisions of District Rule 1203.

Rule 1208 – *Certification*. Goldstone included a Certification of Responsible Official as required with the submitted application for the proposed equipment.

Rule 1207 – *Notice and Comment*.

1211 – *Greenhouse Gas Provisions of Federal Operating Permits*. Goldstone is not a Major GHG Facility pursuant to Rule 3011. LM’s FOP will be updated to include all the requirements of this rule as a part of this modification.

Regulation XIII – *New Source Review*

Rule 1302 – *Procedure*. This rule applies to all new or Modified Facilities and requires certain requirements to be fulfilled when submitting an application. All applicable requirements of this rule are discussed in this NSR document as part of the Analysis procedure. Certification of compliance with the Federal Clean Air Act, applicable implementation plans, and all applicable District rules and regulations have been addressed. The Authority to Construct (ATC) application package for the proposed equipment includes sufficient documentation to comply with Rule 1302(D)(5)(b)(ii). Permit conditions for the proposed project will require compliance with Rule 1302(D)(5)(b)(iii).

Rule 1303 – *Requirements*. This rule requires BACT and offsets for selected facility modifications. Equipment installed shall meet BACT and prior to the commencement of construction the proponent shall have obtained sufficient offsets to comply with Rule 1303(B)(1). Goldstone will comply with the BACT requirements of District Rule 1303 by installing a new propane generator with an engine that has been issued a USEPA Certificate of Conformity for achieving the emission standards for new nonroad spark-ignition engines for the same model year and maximum engine power for all pollutants. Goldstone is not applicable to the requirements of offsets, as the modifications of this facility do not generate an emissions increase.

Rule 1304 – *Emissions Calculations*. The Proposed Emissions from the proposed modifications were calculated pursuant to section (B)(1)(a).

Rule 1320 – *New Source Review for Toxic Air Contaminants*. Pursuant to the requirements of District Rule 1302, an applicability analysis of state and federal air toxic regulations was conducted for the proposed modifications (State T-NSR and Federal T-NSR, respectively) and is discussed in further detail in section (B)(6), above.

Rule 1520 – *Control of Toxic Air Contaminants from Existing Sources*. The proposed project is subject to Rule 1520, as Goldstone has a facility PTE greater than ten (10) tons per year for VOC, PM, and NO_x, as well as a PTE to emit a TAC (Section (B)(1)(a) and (c)). A Toxic ‘Hot Spots’ Program Analysis was conducted pursuant to section (E) of District Rule 1520. Facility Prioritization Scores were calculated pursuant to this rule and the results of the analysis is discussed in further detail in section (B)(6), above.

Regulation XVII – Prevention of Significant Deterioration

Please take notice that this regulation is not currently used within the MDAQMD because the USEPA has not delegated authority for the PSD Program to the MDAQMD at this time.

State Regulations

17 CCR 93115 – *Airborne Toxic Control Measure for Stationary Compression Ignition Engines* (Stationary ATCM). The proposed Modified Facility will comply with the requirements of the Stationary ATCM by complying with the updated permit conditions as described in section (B)(10). All stationary, diesel-fired, compression ignition engines permits have been updated to reflect the requirements of the Stationary ATCM as applicable. Operating requirements that are prompted from this regulation are not federally-enforceable and are designated as District and State Applicable only in the Federal Operating permit. The specific equipment that is applicable to this regulation is as follows:

District Permit	Permit Status	Equipment Description	Fuel Type	Use
E000272	PTO	DIESEL IC ENGINE (UNIT #2C) @ MARS SITE	Diesel	Emergency
E000273	PTO	DIESEL IC ENGINE (UNIT #1C) @ MARS SITE	Diesel	Emergency
E000274	PTO	DIESEL IC ENGINE (UNIT #2B) @ MARS SITE	Diesel	Emergency
E000275	PTO	DIESEL IC ENGINE (UNIT #3B) @ MARS SITE	Diesel	Emergency
E000276	PTO	DIESEL IC ENGINE (UNIT #1B) @ MARS SITE	Diesel	Emergency
E000277	PTO	DIESEL IC ENGINE (UNIT #4B) @ MARS SITE	Diesel	Emergency
E000278	PTO	DIESEL IC ENGINE (UNIT #4A) @ MARS SITE	Diesel	Emergency
E000279	PTO	DIESEL IC ENGINE (UNIT #3A) @ MARS SITE	Diesel	Emergency
E000280	PTO	DIESEL IC ENGINE (UNIT #1A) @ MARS SITE	Diesel	Emergency
E000281	PTO	DIESEL IC ENGINE (UNIT #2A) @ MARS SITE	Diesel	Emergency
E003381	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (APOLLO SITE)	Diesel	Emergency
E003382	PTO	DIESEL IC ENGINE, EMERGENCY GENERATOR @ ECHO SITE	Diesel	Emergency
E005133	PTO	DIESEL IC ENGINE, EMERGENCY GENERATOR @ APOLLO SITE	Diesel	Emergency
E009239	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (VENUS SITE)	Diesel	Emergency
E009240	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (ECHO SITE)	Diesel	Emergency
E009241	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (MARS SITE)	Diesel	Emergency

17 CCR 93116 – *Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater* (Portable ATCM). The proposed Modified Facility will comply with the requirements of the Portable ATCM by complying with the updated permit conditions as described in section (B)(10). All portable, diesel-fired, compression ignition engines permits have been updated to reflect the requirements of the Portable ATCM as applicable. Operating requirements that are prompted from this regulation are not federally-enforceable and are designated as District and State Applicable only in the

Federal Operating permit. The specific equipment that is applicable to this regulation is as follows:

District Permit	Permit Status	Equipment Description	Fuel Type	Use
B009337	PTO	DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR	Diesel	Prime
B009338	PTO	DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR	Diesel	Prime
B009339	PTO	DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER	Diesel	Prime
B009340	PTO	DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER	Diesel	Prime
E004635	PTO	DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE)	Diesel	Emergency
E007893	PTO	DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE)	Diesel	Emergency

Federal Regulations

40 CFR 61, Subpart M – National Emission Standard for Asbestos

This facility on an as needed basis is subject to Section 61.145 through 61.147 - standards for the demolition and renovation of asbestos. Historically, the facility has been in compliance with the requirements of these standards. Appropriate conditions are included on Goldstone’s Federal Operating Permit in section (II)(C) to ensure compliance with these requirements.

40 CFR 63, Subpart ZZZZ – National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating internal Combustion Engines (NESHAP). This regulation is applicable to existing, new and reconstructed stationary RICE at major and area sources of hazardous air pollutants (HAP) emissions. Goldstone operates stationary emergency-use RICE, only; all other engines are portable. All Goldstone’s stationary emergency-use RICE are deemed “existing” as they all commenced construction prior to June 2006. Goldstone is an area source of HAP emissions. Because these engines are considered existing engines they are not subject to the NSPS requirements for stationary RICE in 40 CFR 60 Subpart IIII or Subpart JJJJ. Goldstone will comply with the NESHAP by complying with the updated permit conditions described in section(B)(10). The specific equipment that is applicable to this regulation is as follows:

District Permit	Permit Status	Equipment Description	Fuel Type	Use
E000272	PTO	DIESEL IC ENGINE (UNIT #2C) @ MARS SITE	Diesel	Emergency
E000273	PTO	DIESEL IC ENGINE (UNIT #1C) @ MARS SITE	Diesel	Emergency
E000274	PTO	DIESEL IC ENGINE (UNIT #2B) @ MARS SITE	Diesel	Emergency
E000275	PTO	DIESEL IC ENGINE (UNIT #3B) @ MARS SITE	Diesel	Emergency
E000276	PTO	DIESEL IC ENGINE (UNIT #1B) @ MARS SITE	Diesel	Emergency
E000277	PTO	DIESEL IC ENGINE (UNIT #4B) @ MARS SITE	Diesel	Emergency
E000278	PTO	DIESEL IC ENGINE (UNIT #4A) @ MARS SITE	Diesel	Emergency
E000279	PTO	DIESEL IC ENGINE (UNIT #3A) @ MARS SITE	Diesel	Emergency
E000280	PTO	DIESEL IC ENGINE (UNIT #1A) @ MARS SITE	Diesel	Emergency
E000281	PTO	DIESEL IC ENGINE (UNIT #2A) @ MARS SITE	Diesel	Emergency
E003381	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (APOLLO SITE)	Diesel	Emergency
E003382	PTO	DIESEL IC ENGINE, EMERGENCY GENERATOR @ ECHO SITE	Diesel	Emergency
E005133	PTO	DIESEL IC ENGINE, EMERGENCY GENERATOR @ APOLLO SITE	Diesel	Emergency
E009239	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (VENUS SITE)	Diesel	Emergency
E009240	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (ECHO SITE)	Diesel	Emergency
E009241	PTO	DIESEL IC ENGINE, EMERGENCY FIRE PUMP (MARS SITE)	Diesel	Emergency

40 CFR Part 63, Subpart CCCCCC – *National Emission Standards for Hazardous Air Pollutants for Gasoline Dispensing Facilities* (6C). This subpart establishes national emission limitations and management practices for hazardous air pollutants (HAP) emitted from the loading of gasoline storage tanks at gasoline dispensing facilities (GDF). This subpart also establishes requirements to demonstrate compliance with the emission limitations and management practices. Goldstone operates an underground non-retail gasoline tank, and this equipment is subject to 6C; however, the monthly gasoline throughput of this GDF is less than 10,000 gallons;

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therefore, only the requirements of 40 CFR 63.11116 applies. Goldstone will comply with 6C by complying with the requirements of 63.11116 as required by a facility-wide requirement in their Federal Operating Permit in section (II)(A)(34). The specific equipment that is applicable to this regulation is as follows:

District Permit	Permit Status	Equipment Description
N001477	PTO	GASOLINE DISPENSING FACILITY (NON-RETAIL) ECHO SITE

40 CFR Part 82 – *Protection of Stratospheric Ozone*

This facility is in compliance with the requirements of this part. Any servicing of air conditioners is performed by a qualified contracting company. An appropriate condition will be included on the permit to ensure continued compliance with these requirements.

8. Rules and Regulations Not-Applicable to the Proposed Project

District Rules

Rule 1160 – *Internal Combustion Engines*. Internal combustion engines greater than 500 HP and located in federal ozone nonattainment areas are required to comply with this rule. The Goldstone facility is located in an ozone attainment area; therefore, this rule is not applicable to their facility.

Federal Regulations

40 CFR 60, Subpart IIII – *Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI NSPS)*. Goldstone operates stationary emergency-use RICE, only; all other engines are portable. All Goldstone’s stationary emergency-use RICE are deemed “existing” as they all commenced construction prior to June 2006; therefore, only 40 CFR 63, Subpart ZZZZ applies.

40 CFR 60, Subpart JJJJ – *Standards of Performance for Stationary Spark Ignition Internal Combustion Engines (SI NSPS)*. Goldstone operates stationary emergency-use RICE, only; all other engines are portable. All Goldstone’s stationary emergency-use RICE are deemed “existing” as they all commenced construction prior to June 2006; therefore, only 40 CFR 63, Subpart ZZZZ applies.

9. Conclusion

The District has reviewed the proposed modifications and application for Goldstone and conducted a succinct written analysis as required by District Rule 1302, section (D)(1)(b) and District Rule 1203, section (B)(1)(a). The District has determined that the proposed

modifications and application are in compliance with all applicable District, state, and federal rules and regulations as proposed and when operated in terms of the permit conditions given below, and the attached revised FOP. This NSR Document, inclusive of the preliminary decision (pursuant to District Rule 1303) and the preliminary determination (pursuant to District Rule 1203) was released for public comment and publicly noticed pursuant to District Rule 1302 and 1207 (please see Appendix C).

10. Permit Conditions

The following permit conditions will be placed on the Authority to Construct District permits. For the modifications to the FOP, please refer to the Statement of Legal and Factual Basis.

CONDITIONS APPLICABLE TO THE FOLLOWING STATIONARY, DIESEL IC ENGINES, EMERGENCY GENERATORS:

E000272: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2C: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B1447, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 260370, rated at 600 kW(e).

E000273: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1C: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B1556, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 262701, rated at 600 kW(e).

E000274: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2B: Building G-81) @ MARS SITE consisting of:
Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B835, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-2, rated at 850 kW(e).

E000275: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3B: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B838, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-1, rated at 850 kW(e).

E000276: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1B: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B837, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 68431-3, rated at 850 kW(e).

E000277: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4B: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1973, uncertified, existing ICE with a stack height of 27.6', stack diameter of 12", and an exhaust flow rate of 1690 cubic feet per minute at 833.5 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 399 and Serial No. 35B834, After Cooled, Turbo Charged, Direct Injected, producing 1280 bhp with 16 cylinders at 1200 rpm while consuming a maximum of 68 gal/hr. This equipment powers a Kato Engineering Generator Model No. 750SS9D and Serial No. 70295, rated at 850 kW(e).

E000278: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #4A: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1967, uncertified, existing ICE with a stack height of 21', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2912, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 262707, rated at 600 kW(e).

E000279: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #3A: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1965, uncertified, existing ICE with a stack height of 17.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine

Model No. 398 and Serial No. 66B733, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers an Ideal Electric Generator Model No. SAB and Serial No. 249958, rated at 600 kW(e).

E000280: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #1A: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1964, uncertified, existing ICE with a stack height of 27.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2911, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Kato Engineering Generator Model No. A2421600001 and Serial No. 97979, rated at 600 kW(e).

E000281: DIESEL IC ENGINE, EMERGENCY GENERATOR (UNIT #2A: Building G-81) @ MARS SITE consisting of:

Year of Manufacturer 1965, uncertified, existing ICE with a stack height of 17.9', stack diameter of 12", and an exhaust flow rate of 1155 cubic feet per minute at 738 degrees Fahrenheit. One Caterpillar, Diesel fired internal combustion engine Model No. 398 and Serial No. 66B2909, After Cooled, Turbo Charged, Direct Injected, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Kato Engineering Generator Model No. A2421600002 and Serial No. 11729, rated at 600 kW(e).

E003382: DIESEL IC ENGINE, EMERGENCY GENERATOR @ ECHO SITE consisting of:

Year of Manufacturer 1991, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Cummins, Diesel fired internal combustion engine Model No. NT-855-64 and Serial No. 11638482, producing 375 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 9 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at 230 kW.

E005133: DIESEL IC ENGINE, EMERGENCY GENERATOR @ APOLLO SITE consisting of:

Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Cummins, Diesel fired internal combustion engine Model No. LTA10G1 and Serial No. 34886879, producing 380 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 9 gal/hr. This equipment powers an ONAN Generator Model No. 230DFAB and Serial No. K970658009, rated at 230 kW(e).

1. This existing, diesel engine, and any associated air pollution control equipment, shall be installed, operated, and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles, which produce the minimum emissions of contaminants. Unless otherwise noted, this equipment shall also be operated in accordance with all data and specifications submitted with the application for this permit.
[40 CFR 63.6605(a) and (b) and 63.6625(e)]
2. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this equipment to indicate elapsed engine operating time.
[17 CCR 93115.10(d) and 40 CFR 63.6625(f)]
3. This equipment shall only be fired on diesel fuel that meets the requirements of CARB Diesel Fuel as defined in 17 CCR 93115.4(a)(8), or an alternative fuel that meets the requirements of 17 CCR 93115.5(a)(2-6), pursuant to the Air Toxic Control Measure for Stationary Compression Ignition Engines.
[17 CCR 93115.5(a)]
4. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than twenty (20) hours per year for testing and maintenance.
[17 CCR 93115.6(b)(3) and 40 CFR 63.6640(f)(ii)]
5. Facility-wide emissions shall not exceed 250 tons per year of NO_x, 24 tons per year of VOC, and 18 tons per year of PM₁₀, as a running total for the preceding 364 day period plus the current day's operation. For emergency engines, only emissions generated during testing and maintenance, shall apply toward the facility-wide emission limits. Facility-wide emissions shall be monitored on an hourly, daily, monthly, and a running year (the last 365 days) basis. These records shall be maintained as current, for a minimum of five (5) years, and made available upon District, State, and/or Federal request.
[District Rule 1302 (C)(2)(a)]
6. The owner/operator shall maintain an operations log for this equipment 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and hours of operation with documentation of how many hours are spent for emergency operation, including what classified the operation as emergency, and how many hours are spent for non-emergency operation, including what classified the operation as non-emergency. [17 CCR 93115.10(f) and 40 CFR 63.6655(f)]; and,

- b. Monthly and calendar year operation in terms of total hours, both emergency and non-emergency use, classified as described in ‘a.’ above [17 CCR 93115.10(f)]; and,
 - c. Monthly fuel use [17 CCR 93115.10(f)]; and,
 - d. Documentation of certified fuel use, as required by condition 3 (may use the supplier's certification of sulfur content if it is maintained as part of this log); and,
 - e. Maintenance performed on this equipment, inclusive of the management practice requirements of condition 7, below; and,
 - f. Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment [40 CFR 63.6640(b) and 63.6655(a)(2)]; and,
 - g. Records of all required maintenance performed on the air pollution control and monitoring equipment [40 CFR 63.6655(a)(4)]; and,
 - h. Records of actions taken during periods of malfunction to minimize emissions in accordance with condition 1, including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation [40 CFR 63.6655(a)(5)].
7. This engine is subject to the requirements of 40 CFR 63, Subpart ZZZZ, and pursuant to this federal regulation, this engine is required to meet the following compliance requirements by May 3, 2013:
The owner/operator of this equipment shall demonstrate continuous compliance by committing to a maintenance schedule inclusive of the management practice requirements listed below:
- a. Change oil and oil filter every 500 hours of operation or annually, whichever comes first (source has the option to utilize an oil analysis program pursuant to 40 CFR 63.6625(i) in order to extend the specified oil change requirement.);
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and,
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.
[40 CFR 63.6603(a) and 63.6640(a)]
8. If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice requirements required by condition 7, or shutting down the engine would pose an unacceptable risk, the management practice can be delayed until the emergency is over, or the risk has been abated. The management practice should be performed as soon as practicable after the emergency/risk has ended. Sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deemed unacceptable.
[40 CFR 63.6603(a)]

9. The owner/operator must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup apply.
[40 CFR 63.6625(h)]

10. This equipment may operate in response to notification of impending rotating outage if the area utility has ordered rotating outages in the area where the engine is located or expects to order such outages at a particular time, the engine is located in the area subject to the rotating outage, the engine is operated no more than 30 minutes prior to the forecasted outage, and the engine is shut down immediately after the utility advises that the outage is no longer imminent or in effect.
[17 CCR 93115.6(b)(1) and 40 CFR 63.6640(f)(iii)]

11. This equipment shall not be used to provide power during a voluntary agreed to power outage and/or power reduction initiated under an Interruptible Service Contract (ISC); Demand Response Program (DRP); Load Reduction Program (LRP) and/or similar arrangement(s) with the electrical power supplier.
[17 CCR 93115.6(c)(2)(C)]

12. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
[District Rule 204]

CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, EMERGENCY GENERATORS:

E004635: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) consisting of: Year of Manufacturer 1985, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Palmer, Diesel fired internal combustion engine Model No. 100-3P-18 and Serial No. 66D5416, Inter Cooled, producing 135 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 7 gal/hr. This equipment powers a TBD Generator Model No. TBD and Serial No. TBD, rated at 100 kW(e).

E007893: DIESEL IC ENGINE, PORTABLE, EMERGENCY GENERATOR (ECHO SITE) consisting of: Year of Manufacturer 1998, tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Perkins, Diesel fired internal combustion engine Model No. 1006 6T (D100P2) and Serial No. 7AK03323, Direct Injected, Inter Cooled, Turbo Charged, producing 166 bhp

with 6 cylinders at 1800 rpm while consuming a maximum of 8 gal/hr. This equipment powers a Generac Generator Model No. 0886 S and Serial No. 2040128, rated at 87.9 kW(e).

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 diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be moved within this facility or moved to another facility annually.) [Title 17 CCR 93116.2(a)(29)]
3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)]
4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time by January 1, 2012. [Title 17 CCR 93116.4(c)(2)(A)]
5. This unit shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted. In addition, this unit shall be operated no more than 20 hours per year for testing and maintenance, excluding compliance source testing. [Title 17 CCR 93116.2(a)(12) and 9.3116.3(c)(4)]
6. Facility-wide emissions shall not exceed 250 tons per year of NO_x, 24 tons per year of VOC, and 18 tons per year of PM₁₀, as a running total for the preceding 364 day period plus the current day's operation. For emergency engines, only emissions generated during testing and maintenance, shall apply toward the facility-wide emission limits. Facility-wide emissions shall be monitored on an hourly, daily, monthly, and a running year (the last 365 days) basis. These records shall be maintained as current, for a minimum of five (5) years, and made available upon District, State, and/or Federal request.
[District Rule 1302 (C)(2)(a)]

7. The owner/operator shall maintain an operations log for this unit current and on-site (or at a central location) for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (emergency use, testing & maintenance, etc);
 - c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
 - d. Fuel sulfur concentration (the o/o may use the supplier's certification of sulfur content if it is maintained as part of this log). [Title 17 CCR 93116.4(c)(2)(C)]

8. This portable, uncertified, emergency engine shall be removed from service or replaced no later than January 1, 2017. The replacement engine shall be certified to the most stringent of either the federal or California emission standards for the appropriate class and category of nonroad engine in effect at the time or replacement. [Title 17 CCR 93116.3(b)(1)(B)]

9. The owner/operator of this unit must submit a 'Statement of Compliance' signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr) and other required information, see Title 17 CCR 93116.4(e)(2), (3), (4), (5), (6) and (7).

Compliance and Submittal Dates Pursuant to 17 CCR 93116.4(e)(2):

Weighted DPM Emission Fleet Average Date	Submit by
January 1, 2013	March 1, 2013
January 1, 2017	March 1, 2017
January 1, 2020	March 1, 2020

10. The owner/operator of fleets that are exempted from the requirements of section 93116.4 pursuant to section 93116.4 (a), the Responsible Official shall certify that all portable diesel-fueled engines in the fleet satisfy the requirements of section 93116.4(a). See Title 17 CCR 93116.4(f) for details.

CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, DIESEL IC ENGINES, LOW-USE EQUIPMENT:

B009337: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR consisting of:

Year of Manufacturer 2002, Tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One John Deere, Diesel fired internal combustion

engine Model No. T04045DF150 and Serial No. T04045D724416, producing 80 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers an Ingersol Rand Compressor Model No. TBD and Serial No. 04BB818684, rated at TBD.

B009338: DIESEL IC ENGINE, PORTABLE, LOW-USE, AIR COMPRESSOR consisting of:

Year of Manufacturer 2002, Tier 1, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One John Deere, Diesel fired internal combustion engine Model No. TO4045T and Serial No. CD4239d818684, producing 100 bhp with 4 cylinders at 2500 rpm while consuming a maximum of 4 gal/hr. This equipment powers an Ingersol Rand Compressor Model No. 04BB818684 and Serial No. TBD, rated at TBD.

B009339: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER consisting of:

Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Deutz, Diesel fired internal combustion engine Model No. BF4M2011 and Serial No. LF432006, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Miller Welder Model No. TBD and Serial No. TBD, rated at TBD.

B009340: DIESEL IC ENGINE, PORTABLE, LOW-USE, WELDER consisting of:

Year of Manufacturer TBD, uncertified, existing ICE with a stack height of TBD, stack diameter of TBD, and an exhaust flow rate of TBD cubic feet per minute at TBD degrees Fahrenheit. One Deutz, Diesel fired internal combustion engine Model No. BF4M2011 and Serial No. LF244855, producing 64 bhp with 4 cylinders at 1850 rpm while consuming a maximum of 3 gal/hr. This equipment powers a Miller Welder Model No. TBD and Serial No. TBD, rated at TBD.

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 diesel ICE and its associated equipment cannot be operated at the same engine-print (spot) for more than 365 consecutive days. (This system must be

moved within this facility or moved to another facility annually.) [Title 17 CCR 93116.2(a)(29)]

3. This unit shall only be fired on ultra-low sulfur diesel fuel whose sulfur concentration is less than or equal to 0.0015% (15 ppm) on a weight per weight basis per CARB Diesel or equivalent requirements; or alternative diesel fuel, or CARB diesel fuel utilizing fuel additives, that has been verified through the Verification Procedure for In-Use Strategies to Control Emissions from Diesel Engines. [Title 17 CCR 93116.3(a)]
4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time by January 1, 2012. [Title 17 CCR 93116.4(c)(2)(A)]
5. This engine has been designated as "low-use" pursuant to Title 17 CCR 93116. Engine operation shall not exceed 80 hours per year, except for in an emergency event as defined in Title 17 CCR 93116. [Title 17 CCR 93116.2(a)(22) and 9.3116.3(c)(4)]
6. Facility-wide emissions shall not exceed 250 tons per year of NO_x, 24 tons per year of VOC, and 18 tons per year of PM₁₀, as a running total for the preceding 364 day period plus the current day's operation. For emergency engines, only emissions generated during testing and maintenance, shall apply toward the facility-wide emission limits. Facility-wide emissions shall be monitored on an hourly, daily, monthly, and a running year (the last 365 days) basis. These records shall be maintained as current, for a minimum of five (5) years, and made available upon District, State, and/or Federal request. [District Rule 1302 (C)(2)(a)]
7. The owner/operator shall maintain an operations log for this unit, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
 - a. Date of each use and duration of each use (in hours);
 - b. Reason for use (regular prime use, emergency, testing & maintenance, etc.);
 - c. Calendar year operation in terms of fuel consumption (in gallons) and total hours; and,
 - d. Fuel sulfur concentration (may use the supplier's certification of sulfur content if it is maintained as part of this log). [Title 17 CCR 93116.4(c)(2)(C)]
8. This certified, low-use engine shall satisfy one of the following requirements by January 1, 2020:
 - a. The portable diesel-fueled engine is certified to Tier 4 emission standards for newly manufactured nonroad engines; or,

- b. The portable diesel-fueled engine is equipped with a properly functioning level-3 verified technology; or,
 - c. The portable diesel-fueled engine is equipped with a combination of verified emission control strategies that have been verified together to achieve at least 85% reduction in diesel PM emissions.
- [Title 17 CCR 93116.3(b)(3)]

- 9. The owner/operator of this unit must submit a ‘Statement of Compliance’ signed by the Responsible Official that the fleet standards are being achieved and a summary that identifies each portable engine in the fleet and the associated emission rate (g/bhp-hr) and other required information, see Title 17 CCR 93116.4(e)(2), (3), (4), (5), (6) and (7).

Compliance and Submittal Dates Pursuant to 17 CCR 93116.4(e)(2):

Weighted DPM Emission Fleet Average Date	Submit by
January 1, 2013	March 1, 2013
January 1, 2017	March 1, 2017
January 1, 2020	March 1, 2020

- 10. The owner/operator of fleets that are exempted from the requirements of section 93116.4 pursuant to section 93116.4 (a), the Responsible Official shall certify that all portable diesel-fueled engines in the fleet satisfy the requirements of section 93116.4(a). See Title 17 CCR 93116.4(f) for details.

CONDITIONS APPLICABLE TO THE FOLLOWING PORTABLE, PROPANE IC ENGINES, EMERGENCY GENERATOR:

E011623: PROPANE IC ENGINE, EMERGENCY, PORTABLE GENERATOR consisting of:
 Year of Manufacture 2010, USEPA Family Name BPSIB5.702ED, stack height 2', stack diameter 2", exhaust flow rate of 735 cubic feet per minute at 677 degrees Fahrenheit. One General Motors, Propane fired internal combustion engine Model No. 8.1 and Serial No. 23472, producing 127 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 7 gal/hr. This equipment powers a Kohler Generator Model No. 100 REZG and Serial No. 2335656, rated at 97 kW(e).

- 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 engine cannot remain at a location for more than twelve (12) consecutive months. A location is any single site at a building, structure, facility, or installation. Any engine (or engines) that replaces an engine at a location and that is intended to perform the same or similar function as the engine replaced will be included in calculating the consecutive time period [40 CFR 1068.30, “nonroad engine” (2)(iii)].

If the owner/operator intends to utilize this engine as a stationary engine, a permit modification must be submitted to the District prior to stationary operation, and the engine is subject to all applicable stationary engine regulations.

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

3. This unit shall only be fired on Propane or LPG.
[District Rule 431]
4. A non-resettable four-digit (9,999) hour timer shall be installed and maintained on this unit to indicate elapsed engine operating time.
[District Rule 1302 (C)(2)(a)]
5. This equipment shall be limited to use for emergency power, defined as in response to a fire or when commercially available power has been interrupted.
[District Rule 1302 (C)(2)(a)]
6. Facility-wide emissions shall not exceed 250 tons per year of NO_x, 24 tons per year of VOC, and 18 tons per year of PM₁₀, as a running total for the preceding 364 day period plus the current day’s operation. For emergency engines, only emissions generated during testing and maintenance, shall apply toward the facility-wide emission limits. Facility-wide emissions shall be monitored on an hourly, daily, monthly, and a running year (the last 365 days) basis. These records shall be maintained as current, for a minimum of five (5) years, and made available upon District, State, and/or Federal request.
[District Rule 1302 (C)(2)(a)]
7. The owner/operator shall maintain an operations log for this equipment, 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/or Federal personnel, upon request. The log shall include, at a minimum, the information specified below:
 - a. Date and location of each use; and,
 - b. Duration of each use (in hours) and the type of use (emergency or testing and maintenance); and,
 - c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours.

C. Title V Permit/FOP, Significant Permit Modification

1. Changes to FOP

Please refer to the Statement of Legal and Factual Basis for a detailed list of the changes to Goldstone's Federal Operating Permit.

2. CAM Analysis

The Compliance Assurance Monitoring (CAM) rule (40 CFR 64) applies to each Pollutant Specific Emissions Unit (PSEU) when it is located at major source that is required to obtain Title V, Part 70 or 71 permit and it meets all of the following criteria. "PSEU" means an emissions unit considered separately with respect to each regulated air pollutant.

The PSEU must:

- a. Be subject to an emission limitation or standard; AND,
- b. Use a control device to achieve compliance; AND,
- c. Have the **potential pre-control** emissions that exceed or are equivalent to the major source threshold.

The Goldstone facility does not satisfy the criteria specified in either "a", "b", and "c" above; therefore, they are not subject to CAM.

The information provided in the table below was developed pursuant to 40 CFR 64 to determine source emissions, rule applicability and identification of facilities subject to CAM.

District Permit	Pollutant subject to Limitation or Standard	Uncontrolled PTE (tpy)	Uncontrolled PTE greater than 100% of Major Source Threshold	Unit uses a control device	Exempt from CAM	CAM Plan Required
B009337, B009338, B009339, B009340, B010789, E000272, E000273, E000274, E000275, E000276, E000277, E000278, E000279, E000280, E000281, E003381, E003382, E004635, E005133, E007893, E009239, E009240, E009241, E011623, N001477, and T003003	NOx	250	YES	NO	YES	NO
	VOC	24	NO	NO	YES	NO
	PM10	18	NO	NO	YES	NO

D. Public Comment and Notifications

1. Public Comment

The preliminary decision was released for public comment and publicly noticed on February 22, 2013 (please, see Appendix C). Written comments from the public were accepted for thirty (30) days from the date of publication of the public notice, pursuant to District Rule 1302, section

**NSR Document – Preliminary Decision
FOP Mod – Preliminary Determination
NASA Goldstone Deep Space Communications Complex
December 12, 2012**

(D)(3). The preliminary determination was submitted to USEPA pursuant District Rule 1205 for a forty-five (45) day review period. The final Authority to Construct permit and modified FOP shall be issued on or about April 10, 2013.

Any comments on the Preliminary Decision/Determination were forwarded to:

Eldon Heaston, Executive Director
Mojave Air Quality Management District
43301 Division St, Suite 206
Lancaster, CA 93535

30-day Public Notice start Date: February 22, 2013
30-day Public Notice end Date: March 25, 2013
Submittal Date to EPA/CARB review: February 19, 2013
EPA/CARB 45-day Commenting Period ends: April 8, 2013
Permit Issue date: On or about April 10, 2013

2. Notifications

All correspondence as required by District Rules 1302 and 1205 were forwarded to (including written and electronic notification to USEPA at the start of the public comment period):

Director, Office of Air Division
United States EPA, Region IX
75 Hawthorne Street
San Francisco, CA 94105

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

Mark Solheid
Sr. ESH Analyst
ITT EXELIS
93 Goldstone Road
Fort Irwin, CA 932310

Appendix A

Goldstone Application

Appendix A, the Application was too big to include in this emailed document. If you would like to see Appendix A, please email your request to Sheri Haggard, shaggard@mdagmd.ca.gov.

Appendix B
Emission Unit Prioritization Score and HARP Data

Goldstone Facility PS

File: C:\HARP\PROJECTS\PET\Priority.txt

Facility Prioritization for District

Report date: 12/12/2012

Created by HARP Version 1.4f Build 23.11.01

Procedure Fac ID NonCancer	Description Cancer	Dispersion		Adjustment Multiplier Chronic	Procedure Cancer NonCancer	Emission and Potency	
		Acute	Chronic			Total Acute Score	Chronic
Proximity Calc. Method: manually edited by user at 7348 m							
13300611 0.002	device 1 0.284	0.000	0.002	***	0.287 0.002	0.000	0.002
13300611 0.000	device 2 0.000	0.000	0.000	***	0.000 0.000	0.000	0.000
13300611 0.002	NASA GOLDSTONE D 0.284	0.000	0.002	***	0.287 0.002	0.000 0.287	0.002

Appendix C
Public Notice

NOTICE OF PRELIMINARY DECISION & DETERMINATION

NOTICE IS HEREBY GIVEN THAT *NASA Goldstone Deep Space Communications Complex* - located at 93 Goldstone Road, Fort Irwin, CA 92310, has submitted an application to add a new, portable, emergency, propane-fired, generator and modify ten (10), stationary, diesel-fired, generators from “prime” use to “emergency use” pursuant to the provisions of Mojave Desert Air Quality Management District (MDAQMD) Regulation XIII. This application also constitutes an application for a Significant Permit Modification to the Federal Operating Permit (FOP # 13300611) pursuant to MDAQMD Rule 1205(C). The applicant is a deep space communications facility. Because of the critical nature of deep space missions and the remoteness of the facility, uninterrupted electric power is critical. This proposed action will not result in a net increase in regulated air pollutants.

The MDAQMD has prepared a Preliminary Decision for the project pursuant to MDAQMD Rule 1302(D). The MDAQMD finds that, subject to specified permit conditions, the proposed equipment and permit modifications will comply with all applicable MDAQMD, state, and federal rules and regulations. As a part of this document the District has also produced a Preliminary Determination indicating the necessary modifications to the terms and conditions of the FOP.

AVAILABILITY OF DOCUMENTS: The Preliminary Decision & Determination, as well as the application and other supporting documentation are available for review at the MDAQMD offices, 14306 Park Avenue, Victorville, CA 92392. Please contact Sheri Haggard, Air Quality Engineer at the above address or (760) 245-1661, extension 1864 to obtain copies of these documents.

REQUEST FOR COMMENTS: Interested persons are invited to submit written comments and/or other documents regarding the Preliminary Decision & Determination. If you submit written comments regarding the Significant Modification to the FOP, you may also request a public hearing on the proposed modification to the FOP. To be considered, comments, documents and requests for public hearing must be submitted no later than 5:00 P.M. on March 25, 2013 or thirty (30) days after the publication date of this notice (whichever is later) to the Park Avenue address. Final permits should be issued no later than April 9, 2013.

MICHELE BAIRD
Clerk of the Governing Board
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392

Sheri Haggard

From: Michele Baird
Sent: Tuesday, February 19, 2013 11:55 AM
To: Sheri Haggard
Subject: FW: Legal Notice for publication
Attachments: Goldstone Public Notice 12-12-12.doc

Importance: High

From: Michele Baird
Sent: Tuesday, February 19, 2013 11:54 AM
To: 'Legals'; 'PE Legals'
Subject: Legal Notice for publication
Importance: High

Please publish the attached legal notice in the Riverside Press Enterprise and Daily Press, respectively, **on Friday, February 22, 2013.**

Please mail proof of publication, one copy of the notice as published and the invoice to the attention of Michele Baird, Clerk of the Board, 14306 Park Ave, Victorville, CA 92392.

If you have any questions, please feel free to call me at 760.245.1661, x5040.

Please confirm receipt of this e-mail.

Michele Baird, MDAQMD
Clerk of the Boards
760.245.1661 x5040

From: Sheri Haggard
Sent: Tuesday, February 19, 2013 11:32 AM
To: Michele Baird
Subject: RE: Public Notice
Importance: High

Hi Michele:

Will you please use the updated attached Notice when you submit it this afternoon? Thank you, I wanted to update the dates.

Sheri

From: Sheri Haggard
Sent: Thursday, February 14, 2013 4:46 PM
To: Michele Baird
Subject: Public Notice

Hi Michele,

Will you please submit the attached NASA Goldstone permitting action Public Notice to be properly noticed? It is for a NSR and FOP modification.

Thank you kindly,

Sheri

From: Sheri Haggard
Sent: Thursday, February 14, 2013 3:19 PM
To: Michele Baird
Subject: Public Notice

Hi Michele,

I am preparing a permitting action Public Notice. When is the soonest this document will circulate in order to correctly prepare the dates in my notice? I will get it to you by today and need it circulated for both counties.

SHERI HAGGARD
Air Quality Engineer



14306 Park Avenue
Victorville, CA 92392
(760) 245-1661 x.1864
(760) 245-2022 - fax
www.mdaqmd.ca.gov

APPENDIX B

Draft Public Notice

NOTICE OF PRELIMINARY DECISION & DETERMINATION

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MICHELE BAIRD
Clerk of the Governing Board
Mojave Desert Air Quality Management District
14306 Park Avenue
Victorville, CA 92392