MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

Statement of Basis

for Surrender of

FOP Number:1330611

For:

National Aeronautics & Space Administration

Facility:

NASA Goldstone Deep Space Communication Complex

Facility Address:

93 Goldstone Road Fort Irwin, CA 92310

Document Date: June 1, 2019
Submittal date to EPA/CARB for review: June 7, 2019
EPA/CARB 45-day Commenting Period ends: July 22, 2019
Public Notice Posted: June 11, 2019
Public Commenting Period ends: July 11, 2019
Final Determination Issuance date: July 15, 2019

Permitting Engineer: Sheri Haggard

A. Proposal

NASA Goldstone Deep Space Communication Complex (Goldstone) is a government-owned, contract-operated facility using satellite ground stations primarily engaged in deep space communications to track and communicate with space missions. This facility operates 24 hours per day, seven days per week, and 52 weeks per year.

The District received an application on 4/29/19 in which the Responsible Official for this facility requested to surrender their Federal Operating Permit by electing to voluntarily limit its facility emissions to the extent that the facility is no longer subject to the provisions of District Regulation XII, pursuant to the provisions of District Rule 221, section B.

A copy of this application can be viewed in Appendix A.

Goldstone is currently defined as a federal Major Facility pursuant to District Rule 1201 – Federal Operating Permit Definitions as this source has a federally enforceable limit greater than the Major Facility thresholds for NOx (limit is currently 250 tons per year). This permitting action proposes to cap the facility limit for NOx at 80 tons per year which is 80 percent of the Major Facility threshold for a facility located outside the FONA. This proposed limit will effectively designate Goldstone as a synthetic minor source and will alleviate this facility from its Federal Operating Permit requirements.

Pursuant to Section (C) of district Rule 221, this evaluation document and draft permits will be sent to USEPA and CARB for review and comment for a 45-day review period; and, the District will publish a Public Notice for a 30-day public commenting period that will include the following information:

- 1. The name and location of the Facility, including the name and address of the permit holder or applicant if different.
- 2. A statement that the Facility is applying for a Voluntary Emission Limitation.
- 3. The District name, address, telephone number and contact person from whom interested persons may obtain additional information.

A copy of this Public Notice is included in Appendix B.

B. Analysis

District Rule 221 – Federal Operating Permit Requirement specifies the requirements for obtaining Federal Operating Permits and the requirements to void applicability of Federal Operating Permit Requirements. Pursuant to Section B of this rule and Facility which would otherwise be subject to the provisions of Regulation XII – Federal Operating Permits may elect to voluntarily limit its emissions to the extent that the Facility is no longer subject to the provisions therein.

Goldstone requested to surrender their Federal Operating Permit by electing to voluntarily limit its emission to the extent that the facility is no longer subject to the provisions of District Regulation XII, pursuant to the provisions of District Rule 221, section B.

Pursuant to District Rule 221, section B, this facility has met all the following requirements:

- a. [Rule 221(B)(1)(a)(i)] Applied for permit modifications for the appropriate permits for all permit units, as defined in District Rule 1201(V), under the provisions of District Regulation II and requested, in writing, a voluntary emission limitations of 80 tpy of NOx, 24 tpy of VOC (no change) and 18 tpy of PM10 (no change), which are below the Major Facility thresholds defined in District Rule 1201 for a facility located outside the FONA.
- b. [Rule 221(B)(1)(a)(ii)] Included as an attachment in their application request As an attachment to the application(s) or as a part of the request for a voluntary emission limitation the Facility shall identify and describe all sources of emissions at the Facility, including all permit units as defined in District Rule 1201(V) and all equipment not requiring a permit pursuant to District Rule 219.
- c. [Rule 221(B)(1)(a)(iii)] Identifying the fugitive emissions of Hazardous Air Pollutants, as defined in District Rule 1201(R), was not required since this facility is not included on the list of categories that are required to report fugitives Fugitive emissions pursuant to 40 CFR 70.2 Major Source(2). However, HAP is reported by this facility on an annual basis to satisfy the requirements of the AB2588 Hot Spots Program and the actual emissions of HAP at this facility are below the thresholds of the Major Facility thresholds defined in District Rule 1201 for a facility located outside the FONA.
- d. [Rule 221(B)(1)(a)(iv)] Included in their application a reference to their most recently submitted Emission Inventory data that represents a calculation of annual emissions from the sources of emissions identified at this facility. A summary of this data is attached to this evaluation and confirms that actual emissions associated with this facility are below the Major Facility thresholds defined in District Rule 1201 for a facility located outside the FONA, and below the voluntary emission limitations of 80 tpy of NOx, 24 tpy of VOC and 18 tpy of PM10.
- e. [Rule 221(B)(1)(a)(v)] The District has modified all the local air permits with permit conditions that limit emissions at this facility, to a level below that of a Major Facility as defined in District Rule 1201. Copies of these permits are attached to this evaluation in the appendix.

Please note that the emission limits for VOC and PM10 were existing facility limits, and that this proposal does not affect, nor decrease these limits since the existing limits were below the Major Facility thresholds of Rule 1201. There is no need to establish limits for CO, SOx, or HAP as the Potential to Emit for these pollutants are significantly below 50 percent of the Major Facility thresholds of Rule 1201, which is consistent with the provisions of District Rule 222(C) - Emission Limitations. Please refer to the attached emissions summary of this facility's actual emissions for emission year 2018 in the Appendix C.

C. Comment Period and Notifications

1. Public Comment

This preliminary determination will be publicly noticed on June 11, 2019, allowing for public comment until July 11, 2019. Please see Appendix B for noticing details.

2. Notifications

This evaluation document and proposed permits were submitted to USEPA and CARB pursuant for a forty-five (45) day review period on or before June 7, 2019. The final modified FOP shall be issued on or about July 15, 2019.

All correspondence were forwarded to electronically to the following recipients:

Director, Office of Air Division United States EPA, Region IX 75 Hawthorne Street San Francisco, CA 94105 R9airpermits AV MD@epa.gov Chief, Stationary Source Division California Air Resources Board P.O. Box 2815 Sacramento, CA 95812 permits@arb.ca.gov

Mark Solheid Sr. Environmental Analyst NASA Goldstone DSCC 93 Goldstone Road Fort Irwin, CA 92310 Mark.J.Solheid@jpl.nasa.gov

D. Conclusion

After the USEPA and CARB commenting period ends; and, after the Public commenting periods end, provided that no comments are received that cause a revision to this proposal, the District recommends issuing the proposed local permits as proposed and formally closing the associated Federal Operating Permit. The proposed draft permits are in Appendix D.

Appendix A Application



Peraton

Goldstone Deep Space Communication Complex 93 Goldstone Rd., Ft. Irwin, Ca 92310

Mojave Desert Air Quality Management District 14306 Park Ave Victorville, CA 92392

To Whom It May Concern;

The Goldstone Deep Space Communications Complex (GDSCC) is a Government Owned (NASA) Contractor Operated (Peraton) Facility located on the US Army Base, Ft. Irwin, CA. Numerous years ago GDSCC came into compliance with the Airborne Toxic Control Regulations which required the vast majority of our prime engines to convert to emergency engines; this resulted in GDSCC no longer having a potential to emit requiring a Title V Federal Operating Permit. At this time GDSCC would like to voluntarily change our status to that of a synthetic minor, with emission limits appropriate to a natural minor; NOx 80 tpy, VOC 24 tpy and 18 tpy of PM10.

Our last CEIR was submitted to the MDAQMD on February 8th, 2019.

Please see the attached application packet per MDAQMD Rule 221(B)(1)(a)(i,ii,iv and v).

Thank you for your consideration.

Don Westbrook

Dy Win

GDSCC Complex Manager

Equipment Name	Location	Fuel Type	Estimated Fuel Capacity	Estimated H.P
Blower #1 Back Pack	Echo Yard	Gasoline	1.5 Gal	2.7
Blower #2 Back Pack	Echo Yard	Gasoline	1.5 Gal	2.7
Blower/Vac	Echo Yard	Gasoline	.25 Gal	1.4
Blower/Vac	Echo Yard	Gasoline	.25 Gal	1.4
Chain Saw	Echo Yard	Gasoline	.25 Gal	2.3
Chain Saw	Echo Yard	Gasoline	.25 Gal	2.8
Chop Saw	Echo Yard	Gasoline	.5 Gal	3
Club Car		Gasoline	7 Gal	3
Club Car		Gasoline	7 Gal	3
Club Car		Gasoline	7 Gal	3
Club Car		Gasoline	7 Gal	3
Club Car		Gasoline	7 Gal	3
Compressor	Service Truck	Gasoline	2.5 Gal	12.5
Compressor Skid Mount	Echo Yard	Gasoline	2.5 Gal	12.5
Concrete Cutter	Echo Yard	Gasoline	¹ 1 Gal	19
Concrete Mixer	Gen Maint Sea Van	Gasoline	1.5 Gal	8.5
Crack Seal Machine	Echo Yard	Propane	25 Gal	20
Drain Cleaner	Plumbers sea van	Gasoline	5 Gal	13
dger	Echo Yard	Gasoline	1 Gal	3.5
lectric Generator GM	Echo Yard	Gasoline	5 Gal	11
lectric Generator HE	Echo Yard	Gasoline	3.0 Gal	7
lectric Generator PLB	Echo Yard	Gasoline	1.5 Gal	11
latz	Echo Yard	Diesel	30 Gal	25
ledge Trimmer #1	Echo Yard	Gasoline	.25 Gal	1.8
ledge Trimmer #2	Echo Yard	Gasoline	.25 Gal	1.8
lyster 14,800	Echo Yard	Gasoline	15 Gal	45
umping Jack	Echo Yard	Gasoline	3 Gal	2.5
Caeser Blower	Echo Yard	Gasoline	5 Gal	21
ight Plant #1	Echo Yard	Diesel	30 Gal	28
ight Plant #2	Echo Yard	Diesel	30 Gal	28
Mower Honda #1	Echo Yard	Gasoline	.25 Gal	4.4
Mower Honda #2	Echo Yard	Gasoline	.25 Gal	4.4
Mower Toro #1	Echo Yard	Gasoline	.25 Gal	4
Mower Toro #2	Echo Yard	Gasoline	.25 Gal	4
Pole Saw	Echo Yard	Gasoline	18 Oz	1.4
Pressure Washer Big	Edio Tard	Diesel	18 Gal	21
Pressure Washer Med.		Electric	18 Gal	18
Pressure Washer Small	~	Diesel	36 Gal	25
Skidsteer	Echo Yard	Diesel	18 Gal	45
Stripping machine	Gen Maint Sea Van	Gasoline	1 Gal	3.5
	Echo Yard	Gasoline	5 Gal	20
Sweeper Frash Pump (New)	Plumbers sea van	Gasoline	1 Gal	8
	Plumbers sea van	Gasoline	.5 Gal	2.5
Frash Pump (Old)		Gasoline	1.5 Gal	4
/ibriplate	Echo Yard	Gasoline	.25 Gal	2
Weed Whacker #3 Stihl	Echo Yard		0.25	2
Weed Whacker #4 Stihl	Echo Yard	Gasoline	0.25 14 Oz	1.5
Weed Wacker #1 Echo	Echo Yard	Gasoline	E LD & C	1.5
Weed Wacker #2 Echo	Echo Yard	Gasoline	14 Oz	NA
BBQ Grill	G-86	Propane	5 gal	NA NA
BBQ Grill	G-41	Propane	5 gal	
londa Generator	G-41	Gasoline	NA NA	7 HP
londa Generator	G-41	Gasoline	NA NA	7 HP
londa Generator	G-41	Gasoline	NA NA	7 HP
londa Generator	G-41	Gasoline	NA NA	7 HP
londa Generator	G-41	Gasoline	NA	15 HP
londa Generator	G-41	Gasoline	NA NA	15 HP
Boiler 1	G-33	Propane	N/A	520,000 Btu
Bioler 2	G-33	Propane	N/A	122,000 Btu
Boiler	G-21	Propane	N/A	680,000 Btu
Boiler	G-23	Propane	N/A	102,000 Btu
Pressure Washer	Venus	Gasoline	NA	8 HP
Sweeper	Venus	Gasoline	NA	8 HP

Generator Honda/Winco	Venus	Gasoline	NA	5.5 HP
Water Pump	Mars	Gasoline	NA	5.5 HP
Generator Honda	Mars Optic	Gasoline	NA	13 HP
Generator Honda	Mars Optic	Gasoline	NA	3.5 HP
Generator Honda	Mars	Gasoline	NA	7 HP
Generator Hyd Pump-Vangaurd	Mars	Gasoline	NA	8 HP
BBQ Grill	Mars G-101	Propane	5 gal	NA
Heater	Mars	Kerosene	NA	NA
Heater	Mars	Kerosene	NA	NA
Grout Mixer	Mars	Gasoline	NA NA	8 HP
Grout Mixer	Mars	Gasoline	NA	8 HP

PERMITTED EQUIPMENT

EQUIPMMENT NAME	PERMIT#	FUEL TYPE	BHP / Size
Portable Generator 1	B010789	Propane	162
Portable Generator 2	B011623	Propane	162
Portable Generator 3	B012695	Propane	185
Portable Welder 1	B012692	Diesel	72
Portable Welder 2	B012693	Diesel	72
Stationary Generator 2C	E000272	Diesel	875
Stationary Generator 1C	E000273	Diesel	875
Stationary Generator 2B	E000274	Diesel	1280
Stationary Generator 3B	E000275	Diesel	1280
Stationary Generator 1B	E000276	Diesel	1280
Stationary Generator 4B	E000277	Diesel	1280
Stationary Generator 4A	E000278	Diesel	875
Stationary Generator 3A	E000279	Diesel	875
Stationary Generator 1A	E000280	Diesel	875
Stationary Generator 2A	E000281	Diesel	875
Stationary Fire Pump Apollo	E003381	Diesel	140
Statonary Generator Echo	E003382	Diesel	375
Stationary Generator Apollo	E005133	Diesel	380
Stationary Fire Pump Venus	E009239	Diesel	99
Stationary Fire Pump Echo	E009240	Diesel	99
Stationary Fire Pump Mars	E009241	Diesel	117
Portable Spray Gun 3	P012830	Paint	HPLV
Portable Spray Gun 2	P012831	Paint	HPLV
Portable Spray Gun 1	P012832	Paint	HPLV
Portable Spray System	P012833	Paint	HVLP
GDF	N001477	Unleaded / Diesel	
Underground Storage Tank	T012185	Waste Oil	2,000 gal.
Underground Storage Tank	T003003	Diesel	2 x 25,000 gal.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT
BRAD POIRIEZ, EXECUTIVE DIRECTOR RECEIVED

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022

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

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General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT



 a: Permit to be issued to (NASA/Goldstone 	(company name)	¢:		b. Federa 52-159790	al tax ID #: 04
c. Mailing/billing address 93 Goldstone Road, Ft. In		pany name) include city, state (and zip code:		
d. Facility or business lice	nse name (for ed	quipment location):			
e. Facility Address — Loca SAME	ation of equipme	ent (if same as for company, e	nter "Same"):		Equip. coordinates (lat/long)
f. Contact name: Mark Solheid		Title: Sr. Environmental Analyst	Email address: mark.j.solheid@jpl.na	asa.gov	Phone: 760.255.8225
General nature of business Deep Space Communications	3.2				Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnershi	p 🔲 Corporation	Utility 🔲 Lo	cal agen	cy State agency

Application is hereby made for the following equipment: Propane IC engine portable generator	
Application is for what type of permit:	For modification or change of owner:
☐ New construction ☑ Modification ☐ Change of own	ner B0120789 Current Permit Number
Do you claim Confidentiality of Data? 🔽 No 🔲 Ye	es (attach explanation; specify which information provided is confidential)
	ment and/or process):
Year of manufacure 2009, USEPA Family Name BPSIB5.702ED	9
	Serial number: 21400S09
Manufacturer: General Motors Model: 8.1	Serial number: 21400S09
Manufacturer: General Motors Model: 8.1 Add-on air pollution control equipment? Yes No (Note	Serial number: 21400S09 e: most APCE require a separate application)
Manufacturer: General Motors Model: 8.1 Add-on air pollution control equipment? Yes No (Note	Serial number: 21400S09 e: most APCE require a separate application)
Manufacturer: General Motors Model: 8.1 Add-on air pollution control equipment? Yes No (Note If yes: Manufacturer: Model: Type (specify):	Serial number: 21400S09 e: most APCE require a separate application)
Add-on air pollution control equipment? Yes No (Note If yes: Manufacturer: Model: Type (specify):	Serial number: 21400S09 e: most APCE require a separate application) Serial #: CARB EO#: feet Exhaust stack diameter: feet 0.16 (2")

Permit number: Company/facility number: Application number: Invoice number:

	ource specified):		
✓ Manufacturer Source test ☐ Other (please specify):	MDAQMD default	Jusepa ap-42	
Emissions data:			
Pollutant Pre-control max. emis.	sions Units	Post control max. emissions	Units
NO _x		0.246	gm/bhp-hr
NMHC			
co		0.0895	gm/bhp-hr
PM ₁₀		0.0149	gm/bhp-hr
SO,		0.002	gm/bhp-hr
Toxic pollutants — Please include a	a list of all toxic air pollutants	s and their emission rates if known.	
Toxic politicates Trease mercae (and of an toxic an politicality	and their ethission rates it known.	
Section 5: Operation	n information		
Fuel Consumption: 7 gal/hr		gal/hour SCF/hour MMBtu/hr	
Typical load:			
Facility annual operation by quarte		Expected operating hours of equipment	
✓ Uniform OR % Jan-Ma	r % Apr-Jun	4 Hrs/day3 Days/wk	Wk/yr
% Jul-Sep% Oct-De	ec	Total annual hours 288	
Distance (feet) and direction to the Name of closest school (K-12) Lev If the proposed equipment operate pollutants, a public notice will be	wis Elementry es within 1,000 feet of a scho	pol site and operation results in the emission of	
as requested in a	timely manner may result ion	orther information. Failure to provide addition in delays in the processing of this permit and correct.	
			702
	Complex Manager	Dad West	4/16/19
I hereby certify that all information Donald Westbrook Name of responsible official	Complex Manager Official title	Signature of responsible official	4/16/19 Date signed
Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760.255.8423		Signature of responsible official Email: donald.a.westbrook@	Date signed @jpl.nasa.gov

Payment by credit card: Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT RECEIVED

BRAD POIRIEZ. EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdagmd.ca.gov www.MDAQMD.ca.gov - @MDAQMD

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Do you claim Confidentiality of Data?

Application number:



 a. Permit to be issued to (com NASA/Goldstone 	pany name):	1.77	ederal tax ID #: 597904
c. Mailing/billing address (for 93 Goldstone Road, Fort Irwin,	above company name) include city, CA 92310	state and zip code:	
d. Facility or business license r	name (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa	Phone: .gov 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Local a	gency State agency
Section 2: Nature	of application	10	
Application is hereby made for Diesel IC Engine, Portable Welder			
Application is for what type o		For modification or change of B012692 Curre	owner:

Section 3: Equipment information Equipment description (give a brief description of the equipment and/or process): Year of Manufacture 2015, Tier 4, USEPA Family Name FDZXL02.9020 Model: TD2.9L4 Serial number: 11842669 Manufacturer: One Deutz Add-on air pollution control equipment? Yes No (Note: most APCE require a separate application) CARB EO#: Serial #: If yes: Manufacturer: Model: Type (specify): feet Exhaust stack diameter: 16 Exhaust stack height from ground: 5 feet ✓ vertical □ open ✓ weather cap Stack is: horizontal *F Maximum exhaust rate (CFM): Vent data: Exhaust temp.

No _____ Yes (attach explanation; specify which information provided is confidential)

-For District use only-

Emission Factor Basis (attach any	source specified):		
✓ Manufacturer Source test ☐ Other (please specify):	MDAQMD default	JUSEPA AP-42	
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x		2.76	gm/bhp-hr
NMHC			
СО		0.022	gm/bhp-hr
PM ₁₀		0.015	gm/bhp-hr
SO _k		0.005	gm/bhp-hr
loxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operation	n information		
Fuel Consumption: 4		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	at mas raced rodd F	Tacktion	
Facility annual operation by quart	ers (percent):	Expected operating hours of equipme	ent
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/v	vk _24 Wk/yr
% Jul-Sep% Oct-D	ec	Total annual hours 28	8
	404		
Section 6: Receptor			
Distance (feet) and direction to th	e property line of closest: 38	,016 S residence 36,432 S busin	ess 50,160 S scho
Name of closest school (K-12) Le	wis Elementary		
If the proposed equipment operation of the proposed equipment operation of the proposed in the	tes within 1,000 feet of a scho	ool site and operation results in the emission the applicant (CH&S \$42301.6)	n of hazardous air
and the same of the same of	a The state of the Control of the State of	Market and the state of	Charles and the College
as requested in a	timely manner may result	orther information. Failure to provide add in delays in the processing of this permi	
Section 7: Certificat I hereby certify that all informatio		Lorenet	
Thereby Certify that all illionnatio	i contained herein is true and	r correct.	
Donald Westbrook	Complex Manager	Dank Want	4/16/16
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone; 760-255-8423		Email: Donald.A.Westbro	ok@jpl.nasa.gov
Application submission i	nstructions:	C. S. British	
 Submit complete 	d application to Engine	ering@mdaqmd.ca.gov	
	nding application fee of ner) via check or credit	\$288 per permit for new or modific card.	ed permit (or \$164
Payment b	v check:		
		12 To 1 To 1 To 1 To 2 To 2 To 2 To 2 To	
Make check	payable to the Mojave	Desert AOMD	
	payable to the Mojave	Desert AQMD completed application to:	

Mojave Desert AQMD 14306 Park Avenue

Victorville, CA 92392

Payment by credit card:

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov · @MDAQMD



General Application Form

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PLEASE TYPE OR PRINT

Section 1: Owner in	formation		
a. Permit to be issued to (compan NASA/Goldstone	y name):		b. Federal tax ID #: 2-1597904
c. Mailing/billing address (for abo 93 Goldstone Road, Fort Irwin, CA S	(그렇게 이 기업을 하는 경투 회사에서 하나 하나 나의 기계를 가지 않는데 하다.	state and zip code:	
d. Facility or business license nam	e (for equipment location):		
e. Facility Address — Location of e	equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.n	Phone: asa.gov 760-255-8225
General nature of business: Deep Space Communications	1		Company NAICS: 517919
Type of Organization Individual owner Pa Federal agency	rtnership 🔲 Corporation	Utility Loc	al agency State agency
	La kada Ti		
Section 2: Nature o	f application		
Application is hereby made for the Diesel IC Engine, Portable Welder	e following equipment:		
Application is for what type of pe	rmit:	For modification or change	e of owner:
New construction Modifi	cation Change of owner	B012693 C	urrent Permit Number
Do you claim Confidentiality of D	ata? 🔽 No 🗖 Yes (att	ach explanation; specify which	h information provided is confidential)
Section 3: Equipme	nt information		
Equipment description (give a bri Year of Manufacture 2015, Tier 4, USEPA Fan	ef description of the equipment	and/or process):	
(19) (10)	m// tighte / somewhater		
Manufacturer: One Deutz	Model: TD2.9L4		ımber: 11848053
Add-on air pollution control equi	pment? Yes No (Note: <i>mo</i> .	st APCE require a separate ap	plication)
If yes: Manufacturer:	Model: S	erial #:	CARB EO#:
Type (specify):			
Stack data Exhaust stack heigh	and party	feet Exhaust stack diameter	; feet 1.75"
Stack is: ☐ horizontal vert	ical □open ☑ weather ca	ρ ,	
Vent data: Exhaust temp	°F Maximum exhaust ra	ate (CFM):	

-For District use only-

Invoice number:

Application number.

Permit number:

Company/facility number:

Post control max. emissions 2.76 0.022 0.015 0.005 r emission rates if known. SCF/hour MMBtu/hr pected operating hours of equipm Hrs/day Days/	Units gm/bhp-hr gm/bhp-hr gm/bhp-hr
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	/wk Wk/yr
Total annual hours _288	
nd operation results in the emission	on of hazardous air
and West	4/14/10
nature of responsible official	Date signed
il: Donald.A.Westbr	ook@jpl.nasa.gov
f	nature of responsible official

Payment by credit card:

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICTY ED BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAOMD

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022

Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD 19 APR 29 AM 9: 54

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT

Application number:



 a. Permit to be issued to (compa NASA/Goldstone 	nny name):		o. Federal tax ID #: 2-1597904
c. Mailing/billing address (for ab 93 Goldstone Road, Fort Irwin, CA	ove company name) include city, 1 92310	state and zip code:	
d. Facility or business license nar	me (for equipment location):		
e. Facility Address — Location of Same	f equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark,J.Solheid@jpl.na	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Loca	al agency
Section 2: Nature	of application		
Application is hereby made for t			
Application is for what type of p	permit:	For modification or change	of owner:
		Co. 124	of owner: rrent Permit Number
Application is for what type of p New construction Modi Do you claim Confidentiality of	fication	B012695 Cu	
	fication	B012695 Cu	rrent Permit Number
New construction Modi	fication Change of owner Data? No Yes (att	B012695 Cu	rrent Permit Number
New construction Modi	fication Change of owner Data? No Yes (attention	B012695 Cu ach explanation; specify which	rrent Permit Number
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New construction Moding	Change of owner Data? No Yes (att ent information rief description of the equipment lame GPSIBB.80NGP-012 Linc. Model: Industrial 8.8L uipment? Yes No (Note: mo.	B012695 Cu ach explanation; specify which and/or process): Serial nu st APCE require a separate app	rrent Permit Number n information provided is confidential) mber: SGM32HG87
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New construction Modi Do you claim Confidentiality of I Section 3: Equipme Equipment description (give a b Year of Manufacture 2016, USEPA Family N Manufacturer: One Power Solution Int Add-on air pollution control equ If yes: Manufacturer: Type (specify):	Change of owner Data? No Yes (att ent information rief description of the equipment lame GPSIBB, BONGP-012 Linc. Model: Industrial B.BL uipment? Yes No (Note: mo. Model: Si	B012695 Cu ach explanation; specify which and/or process): Serial nu st APCE require a separate app	rrent Permit Number n information provided is confidential) mber: SGM32HG87 polication) CARB EO#:
New construction Modi Do you claim Confidentiality of I Section 3: Equipme Equipment description (give a b Year of Manufacture 2016, USEPA Family N Manufacturer: One Power Solution Int Add-on air pollution control equ If yes: Manufacturer: Type (specify):	Change of owner Data? No Yes (att Pent information rief description of the equipment lame GPSIBB.80NGP-012 Linc. Model: Industrial 8.8L uipment? Yes No (Note: mo. Model: Sight from ground: 6	B012695 Cu ach explanation; specify which and/or process): Serial nu st APCE require a separate apperial #:	rrent Permit Number n information provided is confidential) mber: SGM32HG87 plication) CARB EO#:

Invoice number:

Permit number:

Company/facility number:

MDAQMD default Units	Post control max. emissions 0.032 0.176	Units gm/bhp-hr
Units	0.032	gm/bhp-hr
Units	0.032	gm/bhp-hr
	0.176	am/bhp-hr
	0.176	am/bhp-hr
		Sun Sub-ui
	0.010	gm/bhp-hr
	0.001	gm/bhp-hr
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mcial title		Date signed
	Email: Donald.A.vvestoroo	k@jpi.nasa.gov
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incation to Enginee		4
	\$288 per permit for new or modifie	d permit (or \$164
application fee of	\$288 per permit for new or modifie and.	d permit (or \$164
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	cent): % Apr-Jun cent): % Apr-Jun cent y line of closest: 38,0 centary in 1,000 feet of a school and at the expense of the any contact you for fur a manner may result of ined herein is true and complex Manager official title	Expected operating hours of equipmer "MAPT-Jun" Expected operating hours of equipmer "Hrs/day 3 Days/w Total annual hours 2200 Permation Extra Jun Total annual hours 2200 Expected operating hours of equipmer "Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Entary In 1,000 feet of a school site and operation results in the emission and at the expense of the applicant (CH&S \$42301.6) Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Entary In 1,000 feet of a school site and operation results in the emission and at the expense of the applicant (CH&S \$42301.6) Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 Entary In 1,000 feet of a school site and operation results in the emission and at the expense of the applicant (CH&S \$42301.6) Expected operating hours of equipmer "A Hrs/day 3 Days/w Total annual hours 2200 "A Days/w Total annual hour

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT EIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAQMD

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

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General Application Form

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PLEASE TYPE OR PRINT

Vent data: Exhaust temp. 1250

Application number:



 a. Permit to be issued to (con NASA/Goldstone 	mpany name):		deral tax ID #: 97904
c. Mailing/billing address (for 93 Goldstone Road, Fort Irwin	or above company name) include city,	state and zip code:	**
	e name (for equipment location):		
e. Facility Address — Locatio	on of equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Individual owner	Partnership Corporation	Utility Local a	gency State agency
Application is hereby made Propane IC Engine, Portable Genera		For modification or change of	owner
Application is hereby made Propane IC Engine, Portable Genera	for the following equipment:	For modification or change of	owner:
Application is hereby made Propane IC Engine,Portable Genere Application is for what type	for the following equipment: alor of permit:	21,000	owner: nt Permit Number
Application is hereby made Propane IC Engine, Portable Genera Application is for what type New construction	for the following equipment: alor of permit: Modification	B011623 Curre	
Application is hereby made Propane IC Engine, Portable General Application is for what type New construction No you claim Confidentiality Section 3: Equip	for the following equipment: alor of permit: Modification	B011623 Curre	nt Permit Number
Application is hereby made Propane IC Engine, Portable General Application is for what type New construction New Year of Manufacture 2010, USEPA Fair Manufacture 2010, USEPA Fair Manufacture: General Motors	for the following equipment: alor of permit: Modification	B011623 Curre ach explanation; specify which in and/or process): Serial numb	nt Permit Number formation provided is confidential
Application is hereby made Propane IC Engine, Portable General Application is for what type New construction New Year of Manufacture 2010, USEPA Fair Manufacture 2010, USEPA Fair Manufacture: General Motors	for the following equipment: alor of permit: Modification	B011623 Curre ach explanation; specify which in and/or process): Serial numb st APCE require a separate applica	nt Permit Number formation provided is confidential

-For District use only-

Permit number:

Company/facility number:

°F Maximum exhaust rate (CFM): 735

Invoice number:

	urce specified);		
✓ Manufacturer Source test Other (please specify):	MDAQMD default		
Emissions data:			
Pollutant Pre-control max. emissio	ons Units	Post control max. emissions	Units
NO _x		0.246	gm/bhp-hr
NMHC			
со		0.0895	gm/bhp-hr
PM ₁₀		0.0149	gm/bhp-hr
SO _x		0.002	gm/bhp-hr
Toxic pollutants — Please include a li	ist of all toyic air pollutants	and their emission rates if known	
Toxic politicants — Flease include a li	at or all toxic all pollutalits	und their emission rates it known.	
Section 5: Operation	information		
Fuel Consumption: 7		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%			
Facility annual operation by quarters		Expected operating hours of equipmen	t
Uniform OR % Jan-Mar _	% Apr-Jun	4 Hrs/day 3 Days/wl	k Wk/yr
% Jul-Sep% Oct-Dec		Total annual hours 288	
Castian & Basantania	nfarmation.		
Section 6: Receptor in		20.000	70 400 D
Distance (feet) and direction to the p		one S residence 38,432 S busine	ss <u>50,160 s</u> scho
Name of closest school (K-12) Lewis			
If the proposed equipment operates pollutants, a public notice will be re-		ol site and operation results in the emission	of hazardous air
polluturis, a public notice will be rec	quality at the expense of the	e applicant (criss 342301.0)	
*Please note: District staf		ther information. Failure to provide addi in delays in the processing of this permit	
as requested in a tin		in detays of the processing of this parint	
as requested in a tin Section 7: Certification	on		
as requested in a tin Section 7: Certification	on		
as requested in a tin Section 7: Certification	ontained herein is true and	correct.	4/11/10
as requested in a tin Section 7: Certificatio I hereby certify that all information co Donald Westbrook	on	correct.	4/16/19 Date signed
as requested in a tin Section 7: Certificatio I hereby certify that all information co	ontained herein is true and Complex Manager	correct.	4/i٤/j9 Date signed k@jpl.nasa.gov
as requested in a tin Section 7: Certificatio I hereby certify that all information co Donald Westbrook Name of responsible official	ontained herein is true and Complex Manager	Signature of responsible official	4/iE/19 Date signed k@jpl.nasa.gov
as requested in a time Section 7: Certification I hereby certify that all information components Donald Westbrook Name of responsible official Phone: 760-255-8423	contained herein is true and Complex Manager Official title	Signature of responsible official	4/16/19 Date signed k@jpl.nasa.gov
as requested in a time Section 7: Certification I hereby certify that all information components Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst	contained herein is true and Complex Manager Official title	Signature of responsible official Email: Donald.A.Westbrook	4/12/19 Date signed k@jpl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst 1) Submit completed a 2) Pay the correspondi	Complex Manager Official title Structions: application to Enginee ling application fee of	Signature of responsible official Email: Donald.A.Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified	
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Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission instal 1) Submit completed a 2) Pay the corresponding for change of owner Payment by o	Complex Manager Official title Structions: application to Enginee ling application fee of er) via check or credit of check:	Signature of responsible official Email: Donald.A. Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified ard.	
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst 1) Submit completed a 2) Pay the corresponding for change of owner Payment by official Make check po	Complex Manager Official title Structions: application to Enginee ling application fee of er) via check or credit of check: bayable to the Mojave	Signature of responsible official Email: Donald.A. Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified ard. Desert AQMD	
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst 1) Submit completed a 2) Pay the corresponding for change of owner Payment by official Make check power.	Complex Manager Official title Structions: application to Enginee ling application fee of er) via check or credit of check: bayable to the Mojave k with a copy of this co	Signature of responsible official Email: Donald.A. Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified ard.	
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst 1) Submit completed a 2) Pay the corresponding for change of owner Payment by official Phone: 760-255-8423	Complex Manager Official title Structions: application to Enginee ling application fee of er) via check or credit of check: ayable to the Mojave k with a copy of this court AQMD	Signature of responsible official Email: Donald.A. Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified ard. Desert AQMD	
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission inst 1) Submit completed a 2) Pay the corresponding for change of owner Payment by official Make check power.	Complex Manager Official title Structions: application to Enginee ling application fee of er) via check or credit of check: bayable to the Mojave k with a copy of this court AQMD venue	Signature of responsible official Email: Donald.A. Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified ard. Desert AQMD	

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT EIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue Victoriile CA 92392-2310 MDAQMD

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022

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General Application Form

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Type (specify):

Stack is: ☐ horizontal ✓

Vent data: Exhaust temp. 738

Exhaust stack height from ground: 27.5

✓ vertical □open ✓ weather cap



feet_12"

a. Permit to be issued to (compar	ny name):			al tax ID #:
NASA/Goldstone Mailing/hilling address (for abo	ove company name) include city, s	state and zin code:	52-159790	14
93 Goldstone Road, Fort Irwin, CA				
d. Facility or business license nan	ne (for equipment location):			
e. Facility Address — Location of Same	equipment (if same as for compa	any, enter "Same"):		Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Titlé: Sr. EHS Analyst	Email address: Mark.J.Solheid@		Phone: 760-255-8225
General nature of business: Deep Space Communications				Company NAICS: 517919
Type of Organization Individual owner Page Federal agency	artnership	Utility	Local agend	Cy State agency
AND STREET AND USE OF A STREET AND ASSOCIATION OF A STREET ASSOCIA	he following equipment:	I Forest Market and		
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of po	he following equipment:	For modification or ch	200	
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of polynomial New construction Modif	he following equipment: ermit: fication	E000272	_ Current Pe	ermit Number
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of polymer IC Modified Do you claim Confidentiality of Esection 3: Equipme Equipment description (give a broader IC Diesel I	he following equipment: ermit: fication	ach explanation; specify	_ Current Pe	
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of polymer in the Community of Emergency Generator II Modified the Community of Em	he following equipment: ermit: fication	ach explanation; specify	_ Current Pe	ermit Number
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of polymer in the Company of the Do you claim Confidentiality of Esection 3: Equipme Equipment description (give a br	he following equipment: ermit: fication	ach explanation; specify	_ Current Pe	ermit Number
Application is hereby made for the Diesel IC Engine, Emergency Generator Application is for what type of position I Modified Do you claim Confidentiality of Esection 3: Equipme Equipment description (give a broader in the Diese Section is hereby made for the Diese Secti	he following equipment: ermit: fication	ach explanation; specify	_ Current Pe	ermit Number

-For District use only-

°F Maximum exhaust rate (CFM): 1155

feet Exhaust stack diameter:

Application number:	Invoice number:	Permit number:	Company/facility number:

Emission Factor Basis (attach any	source specified):		
Manufacturer Source tes Other (please specify):	t MDAQMD default	USEPA AP-42	
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x			
V KN AN I			
NMHC			_
CO			
PM ₁₀			
SO _k			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption: 48	The second second problems of the second second	gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	at max rated load [V]	gal/nourscr/nourwww.btu/nr	
Facility annual operation by quart	ters (percent):	Expected operating hours of equipment	
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/wk	Wk/yr
% Jul-Sep% Oct-D		Total annual hours 288	V - C
Section 6: Receptor	Information		
Distance (feet) and direction to the Name of closest school (K-12) Left the proposed equipment operation.	ne property line of closest: 38,0 wis Elementary tes within 1,000 feet of a school	ol site and operation results in the emission o	
Distance (feet) and direction to the Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be	ne property line of closest: 38,0 wis Elementary tes within 1,000 feet of a school te required at the expense of the	ol site and operation results in the emission o	of hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a	ne property line of closest: 38,0 swis Elementary tes within 1,000 feet of a school required at the expense of the staff may contact you for fur timely manner may result i	ol site and operation results in the emission of e applicant (CH&S §42301.6)	of hazardous air
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Distance (feet) and direction to the Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all informatio	te property line of closest: 38,0 wis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result to tion contained herein is true and Complex Manager	ol site and operation results in the emission of applicant (CH&S §42301.6) ther information. Failure to provide addition delays in the processing of this permit of the correct.	of hazardous air tional information application. 4/16/19 Date signed
Distance (feet) and direction to the Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certifical I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence of ow Payment be Make check Mail the check	tes within 1,000 feet of a school required at the expense of the staff may contact you for further timely manner may result in the contained herein is true and complex Manager Official title The complex Manage	correct. Down Wastbrook Signature of responsible official Email: Donald.A.Westbrook pring@mdaqmd.ca.gov \$288 per permit for new or modified applicant.	of hazardous air sional information application. 4/16/19 Date signed

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD

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General Application Form

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PLEASE TYPE OR PRINT

Application number:



Company/facility number:

 a. Permit to be issued to (com NASA/Goldstone 	pany name):			b. Federa 52-159790	al tax ID #: 4
c. Mailing/billing address (for 93 Goldstone Road, Fort Irwin,		de city, state and zip	code:		
d. Facility or business license r	name (for equipment location):			
e. Facility Address — Location Same	of equipment (if same as for	company, enter "Sa	ame"):		Equip. coordinates (lat/long):
f, Contact name: Mark Solheid	Title: Sr. EHS Analyst		nail address: ark.J.Solheid@jpl.	nasa.gov	Phone: 760-255-8225
General nature of business: Deep Space Communications					Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	oration 🔲 Util	lity 🗖 Lo	cal agend	y State agency
A CONTRACT OF THE PARTY OF THE		For modifi	ication or chanc	e of own	er:
Application is hereby made for Diesel IC Engine, Emergency General					
CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		For modifi	estion or chance	o of own	or.
Application is for what type of	f permit:		cation or chang		
Application is for what type of New construction Mo	f permit:	vner <u>E000273</u>		Current Pe	rmit Number
Application is for what type of New construction Mo	f permit: odification	vner E000273 Yes (attach explanation)		Current Pe	
Application is for what type of New construction Mo	f permit: odification	vner E000273 Yes (attach explanati	ion; specify whi	Current Pe	rmit Number
Application is for what type of New construction Mo Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a (Unit #1C; Building G-B1) Year of Manufa	f permit: odification	vner E000273 Yes (attach explanation processes)	ion; specify whi	urrent Pe	ermit Number ation provided is confidential)
Application is for what type of New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a (Unit #1C: Building G-B1) Year of Manufa Manufacturer: Caterpillar Add-on air pollution control e	f permit: odification	yner E000273 Yes (attach explanation processes) pment and/or processes are most APCE requirement.	ion; specify whi	umber: 0	ermit Number ation provided is confidential)
Application is for what type of New construction Mo Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a (Unit #1C: Building G-B1) Year of Manufa	f permit: odification	yner E000273 Yes (attach explanation processes) pment and/or processes are most APCE requirement.	ion; specify whi	urrent Pe	ermit Number ation provided is confidential)

Page 1 of 2

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Invoice number:

Permit number:

Emission Factor Basis (attach any	source specified):	
Manufacturer Source test	The second of th	USEPA AP-42
Emissions data:		
Pollutant Pre-control max. emi	ssions Units	Post control max. emissions Units
NO _x		
NMHC		
co		
PM ₁₀		
SO _x		
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.
C		
Section 5: Operation		Flooring Flooring
Fuel Consumption: 48	at max rated load 🔽	gal/hour SCF/hour MMBtu/hr
Typical load: 70% Facility annual operation by quart	are (narcant):	Expected operating hours of equipment
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/wk 24 Wk/yr
% Jul-Sep% Oct-D		Total annual hours 288
	N. F. V. C. L. V.	
Section 6: Receptor	information	The state of the s
Distance (feet) and direction to th		,016 S residence 36,432 S business 50,160 S scho
Name of closest school (K-12) Le	wis Elementary	
		ool site and operation results in the emission of hazardous air
pollutants, a public notice will be	required at the expense of th	ne applicant (CH&S §42301.6)
		rther information. Failure to provide additional information in delays in the processing of this permit application.
as requested in a	timely manner may result	
as requested in a Section 7: Certificat	timely manner may result	in delays in the processing of this permit application.
as requested in a Section 7: Certificat	timely manner may result	in delays in the processing of this permit application.
as requested in a Section 7: Certificat	timely manner may result	in delays in the processing of this permit application.
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook	timely manner may result tion n contained herein is true and	in delays in the processing of this permit application. I correct.
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official	timely manner may result tion n contained herein is true and Complex Manager	in delays in the processing of this permit application. Scorrect. Dad Wat 4/16/19
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook	timely manner may result tion n contained herein is true and Complex Manager	in delays in the processing of this permit application. decorrect. Died West 4/16/19 Signature of responsible official Date signed
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423	timely manner may result tion n contained herein is true and Complex Manager Official title	in delays in the processing of this permit application. decorrect. Died With a signed Date signed
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in	timely manner may result tion n contained herein is true and Complex Manager Official title nstructions:	in delays in the processing of this permit application. Correct. Date 116/19 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov
as requested in a Section 7: Certifical Thereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete	timely manner may result tion n contained herein is true and Complex Manager Official title structions: d application to Engine	in delays in the processing of this permit application. d correct. Dad Dod 411619 Signature of responsible official Date signed Email: Donald.A. Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov
as requested in a Section 7: Certifical Thereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponse	timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: ed application to Engineending application fee of	in delays in the processing of this permit application. decorrect. Dad Dod 411619 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164)
as requested in a Section 7: Certificat Thereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponder of change of ow	timely manner may result tion n contained herein is true and Complex Manager Official title mstructions: d application to Engineending application fee of the official via check or credit	in delays in the processing of this permit application. decorrect. Dad Doc 4/16/19 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164)
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Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Payment b Make check Mail the check Mojave De	complex Manager Complex Manager Official title contained herein is true and the contained herein to Engineer and application to Engineer and application fee of the contained herein via check or credit of the contained herein is true and contained herein i	in delays in the processing of this permit application. decorrect. Dial Wat 4/16/19 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164 card. Desert AQMD
as requested in a Section 7: Certifical I hereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponder change of ow Payment b Make check Mail the che	complex Manager Official title mstructions: d application to Engineer anding application fee of mer) via check or credit of y check: c payable to the Mojave eck with a copy of this cosert AQMD Avenue	in delays in the processing of this permit application. decorrect. Dial Wat 4/16/19 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164 card. Desert AQMD
Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Payment b Make check Mail the check Victorville, (c., 2012)	complex Manager Complex Manager Official title mstructions: and application to Engineer inding application fee of the official title complex Manager official title mstructions: and application fee officer) via check or credit of the Mojave eck with a copy of this consert AQMD Avenue CA 92392	in delays in the processing of this permit application. decorrect. Dial Wat 4/16/19 Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164 card. Desert AQMD
Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Make check Mail the check Mojave De 14306 Park Victorville, o	complex Manager Complex Manager Official title mstructions: ad application to Engineer anding application fee of ther) via check or credit of the check: a payable to the Mojave eck with a copy of this consert AQMD Avenue CA 92392 by credit card:	Signature of responsible official Date signed Email: Donald.A.Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164 card. Desert AQMD completed application to:
as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponder change of ow Payment b Make check Mail the check Mojave De 14306 Park Victorville, 0	complex Manager Complex Manager Official title mstructions: ad application to Engineer anding application fee of their) via check or credit by check: a payable to the Mojave eck with a copy of this of sert AQMD Avenue CA 92392 by credit card: at http://www.mdaqmd	Signature of responsible official Date signed Email: Donald.A. Westbrook@jpl.nasa.gov ering@mdaqmd.ca.gov \$288 per permit for new or modified permit (or \$164 card. Desert AQMD completed application to:

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT E CEIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue Victorville CA 92392-2310 MDAQMD

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD

Stack data Exhaust stack height from ground: 27.6

✓ vertical

Stack is: horizontal

Vent data: Exhaust temp. B33.5

19 APR 29 AM 9%

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT



feet_12"

 Permit to be issued to (composed NASA/Goldstone) 	any name):	b. Fed 52-159	deral tax ID #: 7904
c. Mailing/billing address (for al 93 Goldstone Road, Fort Irwin, C.	pove company name) include city, A 92310	state and zip code:	
d. Facility or business license na	me (for equipment location):		
e. Facility Address — Location of Same	f equipment (if same as for comp	any, enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.g	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Local ag	ency State agency
Diesel IC Engine, Emergency Generator Application is for what type of p New construction Mod	permit:	For modification or change of c	wner: t Permit Number
Application is for what type of p	permit:		
Do you claim Confidentiality of		tach explanation; specify which info	
Section 3: Equipm Equipment description (give a l (Unit #2B: Building G-81) Year of Manufact	orief description of the equipment	and/or process):	
Manufacturer: Caterpillar	Model: 399	serial numbe ost APCE require a separate applica	
Add-on air poliution control ed	uipment(i res i ino (Note: mo	ist Arce require a separate applica	(OII)
If yes: Manufacturer:	Model: S	Gerial #: CARI	3 EO#;

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°F Maximum exhaust rate (CFM): 1690

open weather cap

feet Exhaust stack diameter:

Application number:	Invoice number:	Permit number:	Company/facility number:
---------------------	-----------------	----------------	--------------------------

Section 4: Emission Emission Factor Basis (attach any	- 19101 574		
Manufacturer Source tes	t MDAQMD default		
Emissions data:			
Pollutant Pre-control max. emi	ssions Units	Post control max. emissions	Units
NO _s			
NMHC			
200			
PM ₁₀			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption: 68 Typical load: 70%		gal/hour SCF/hour MMBtu/hr	
Facility annual operation by quar	ters (percent):	Expected operating hours of equipment	X-
Uniform OR % Jan-M		4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-I	Dec	Total annual hours 288	
Section 6: Receptor	information		
Distance (feet) and direction to the		residence 36,432 8 business	50,160 S school
Name of closest school (K-12)	ewis Elementary		
If the proposed equipment opera pollutants, a public notice will be	tes within 1,000 feet of a school	ol site and operation results in the emission of applicant (CH&S §42301.6)	f hazardous air
as requested in a	timely manner may result i	ther information. Failure to provide additi n delays in the processing of this permit a	
Section 7: Certifica	20 C M		
I hereby certify that all information	n contained herein is true and	correct.	
Donald Westbrook	Complex Manager	Dand Wind	4/16/19
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-255-8423		Email: Donald,A.Westbrook@	@jpl.nasa.gov
2) Pay the corresponder change of own Payment by Make check Mail the ch	ed application to Enginee anding application fee of some of the control of the co	\$288 per permit for new or modified ard. Desert AQMD	permit (or \$164
	y credit card:		

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT RECEIVED

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdagmd.ca.gov www.MDAQMD.ca.gov · @MDAQMD

MDAQMD 19 APR 29 AM

General Application Form

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 Permit to be issued to (company nam NASA/Goldstone 	ne):		ederal tax ID #: 597904
c. Mailing/billing address (for above co 93 Goldstone Road, Fort Irwin, CA 92310	mpany name) include city, state	and zip code:	
d. Facility or business license name (for	equipment location):		
e. Facility Address — Location of equipo Same	ment (if same as for company, e	enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa	Phone: .gov 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Partners Federal agency	hip Corporation	Utility Local	agency State agency
	- Zoea M		
Application is hereby made for the follo	owing equipment:		
Section 2: Nature of ap Application is hereby made for the follo Diesel IC Engine, Emergency Generator Application is for what type of permit: New construction Modification	wing equipment:	r modification or change o	f owner: ent Permit Number

Section 3: Equipment information Equipment description (give a brief description of the equipment and/or process): (Unit #3B: Building G-81) Year of Manufacture 1973 Manufacturer: Caterpillar Model: 399 Serial number: 35B838 Add-on air pollution control equipment? Yes No (Note: most APCE require a separate application) If yes: Manufacturer: Serial #: CARB EO#: Model: Type (specify): Stack data Exhaust stack height from ground: 27.6 feet 12" feet Exhaust stack diameter: Stack is: horizontal ✓ vertical □ open ✓ weather cap Vent data: Exhaust temp. 833.5 °F Maximum exhaust rate (CFM): 1690

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Permit number: Company/facility number: Application number: Invoice number:

Emission Factor Basis (attach any	source specified):			
☐ Manufacturer ☐ Source tes ☐ Other (please specify):		USEPA AP-42		
Emissions data:				
Pollutant Pre-control max. em	issions Units	Post	control max. emissions	Units
NO _x				
NMHC				
со				
PM ₁₀				
SO _x				
Toxic pollutants - Bloom include	a a list of all toxic air pollutants	and their emissi	on rator if known	
Toxic pollutants — Please include	e a list of all toxic air pollutants	and their emissi	on rates if known.	
Section 5: Operation	n information			
		Jan/hour Fig	CF/hour MMBtu/hr	
Fuel Consumption: 68 Typical load: 70%	at max rated load [2	gal/hour S	CLYUOUI [ININIBIU/III	
Facility annual operation by quar	ters (nercent):	Fynacted	operating hours of equipment	
Uniform OR % Jan-M		4	Hrs/day 3 Days/wk	24 Wk/vr
% Jul-Sep% Oct-			Total annual hours 288	
	TV: ST. W. A.			
Section 6: Receptor	r information			
Distance (feet) and direction to t		,016 S resi	dence 36,432 S busines	s 50,160 S scho
			delice Dusilies	30110
Name of closest school (K-12)		, 031	derice Dusines	33010
Name of closest school (K-12) L	ewis Elementary			3410
Name of closest school (K-12) L If the proposed equipment opera pollutants, a public notice will b	ewis Elementary ates within 1,000 feet of a scho	ool site and oper	ation results in the emission o	3410
If the proposed equipment oper pollutants, a public notice will b *Please note: District	ewis Elementary ates within 1,000 feet of a school e required at the expense of to staff may contact you for fu a timely manner may result	ool site and opero he applicant (CH arther informati	ation results in the emission o &S §42301.6) on. Failure to provide additi	f hazardous air
If the proposed equipment opero pollutants, a public notice will b *Please note: District as requested in a	ewis Elementary ates within 1,000 feet of a school e required at the expense of to staff may contact you for fu a timely manner may result tion	ool site and oper he applicant (CH urther informati in delays in the	ation results in the emission o &S §42301.6) on. Failure to provide additi	f hazardous air
If the proposed equipment operopollutants, a public notice will be *Please note: District as requested in a Section 7: Certifica	newis Elementary ates within 1,000 feet of a school of the required at the expense of the staff may contact you for full a timely manner may result tion on contained herein is true and	ool site and oper he applicant (CH urther informati in delays in the	ation results in the emission o &S §42301.6) on. Failure to provide additi	f hazardous air
If the proposed equipment operation pollutants, a public notice will be *Please note: District as requested in a Section 7: Certifica I hereby certify that all information Donald Westbrook	ewis Elementary ates within 1,000 feet of a school e required at the expense of to staff may contact you for fu a timely manner may result tion	ool site and opera the applicant (CH arther informati in delays in the dicorrect.	ntion results in the emission of &S \$42301.6) on. Failure to provide addition of this permit of the processing of this permit of the control of the permit	f hazardous air
If the proposed equipment operopollutants, a public notice will be *Please note: District as requested in a Section 7: Certifica I hereby certify that all information	ewis Elementary ates within 1,000 feet of a school of the required at the expense of the staff may contact you for full a timely manner may result tion Complex Manager	ool site and operate applicant (CH arther informatic in delays in the discorrect.	ation results in the emission o &S §42301.6) on. Failure to provide additi	f hazardous air ional information ipplication. 4/16/19 Date signed
If the proposed equipment operation pollutants, a public notice will be *Please note: District as requested in a sequested in a sequested in the sequested in	ewis Elementary ates within 1,000 feet of a school of the required at the expense of the staff may contact you for full a timely manner may result tion Complex Manager	ool site and oper the applicant (CH arther informati in delays in the dicorrect.	ation results in the emission of &S \$42301.6) on. Failure to provide addition processing of this permit a processing of this permit of the control of the c	f hazardous air ional information ipplication. 4/16/19 Date signed
*Please note: District as requested in a Section 7: Certifica I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponse	tewis Elementary ates within 1,000 feet of a school of the required at the expense of the staff may contact you for full a timely manner may result tion on contained herein is true and Complex Manager Official title	ool site and operate applicant (CH or ther information in delays in the discorrect. Correct Signature of Email:	ontion results in the emission of the emission of the emission of the emission of the processing of this permit of the processing of this permit of the permit of the emission of the permit of the permit of the permit of the emission of th	f hazardous air ional information ipplication. 4/16/19 Date signed @jpl.nasa.gov
*Please note: District as requested in a Section 7: Certifica I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission 1) Submit complete 2) Pay the correspondence of own processing of the correspondence of the c	ewis Elementary attes within 1,000 feet of a school regulared at the expense of the staff may contact you for full a timely manner may result a timely manner may result tion Complex Manager Official title instructions: ed application to Engine and application fee of the contact of the co	ool site and operate applicant (CH arther informatic in delays in the discorrect. Signature of Email: ering@mdaqif \$288 per per card.	ontion results in the emission of the second of the processing of this permit of the processing of this permit of the processing of the permit of the perm	f hazardous air ional information ipplication. 4/16/19 Date signed @jpl.nasa.gov

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

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3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT CEIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 MDAQMD

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

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General Application Form

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7

Invoice number:

PLEASE TYPE OR PRINT

Do you claim Confidentiality of Data?

Application number:



Company/facility number:

 a. Permit to be issued to (comp NASA/Goldstone 	eany name):	100	o. Federal tax ID #: 2-1597904
c. Mailing/billing address (for a 93 Goldstone Road, Fort Irwin, C	bove company name) include city, A 92310	; state and zip code:	
d. Facility or business license na	ame (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for comp	oany, enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.na	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	Utility 🔲 Loca	al agency
Section 2: Nature Application is hereby made for Diesel IC Engine, Emergency Generato	the following equipment:		
Application is for what type of		For modification or change	of owner:
New construction Mor	diffication Change of owner	E000276 Cu	rrent Permit Number

Section 3: Equipment information Equipment description (give a brief description of the equipment and/or process): (Unit #1B: Building G-81) Year of Manufacture 1973 Model: 399 Serial number: 35B837 Add-on air pollution control equipment? Yes No (Note: most APCE require a separate application) CARB EO#: If yes: Manufacturer: Model: Serial #: Type (specify): Stack data Exhaust stack height from ground: 27.6 feet Exhaust stack diameter: feet open weather cap Stack is: horizontal ✓ vertical Vent data: Exhaust temp. °F Maximum exhaust rate (CFM):

No _____Yes (attach explanation; specify which information provided is confidential)

-For District use only-

Permit number:

Emission Factor Basis (attach any	source specified)		
Manufacturer	t MDAQMD default	Jusepa ap-42	
Emissions data:			
Pollutant Pre-control max. emi	issions Units	Post control max. emissions	Units
NO _x			
NMHC			
co			
PM ₁₀			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Castley E. Onsustia			
Section 5: Operatio		Lu Eccu Eccu	
Fuel Consumption: 68	at max rated load 🔽	gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	Laur Caravau III	Francisco Company Company	
Facility annual operation by quart		Expected operating hours of equipmen 4 Hrs/day 3 Days/wk	
Uniform OR % Jan-M			wk/yi
% Jul-Sep% Oct-D	Jec	Total annual hours 288	
as requested in a Section 7: Certificat	timely manner may result	rther information. Failure to provide addit in delays in the processing of this permit	
I hereby certify that all informatio	n contained herein is true and	correct,	
	Canada Managa	D 121-	11.1.
Donald Westbrook	Complex Manager	Dend Wat	4/16/19
Donald Westbrook Name of responsible official	Complex Manager Official title	Signature of responsible official	4/16/13 Date signed
Donald Westbrook Name of responsible official			
Donald Westbrook Name of responsible official Phone; 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsor change of ow Payment bowell Make check Mail the check Mojave De 14306 Park	Official title instructions: ed application to Enginee anding application fee of aner) via check or credit of a check: k payable to the Mojave eck with a copy of this cesert AQMD Avenue	Signature of responsible official Email: Donald.A.Westbrook ering@mdaqmd.ca.gov \$288 per permit for new or modified card.	@jpl.nasa.gov
Donald Westbrook Name of responsible official Phone; 760-265-8423 Application submission i 1) Submit complete 2) Pay the corresponsor for change of ow Payment by Make check Mail the ch Mojave De 14306 Park Victorville, i	Official title instructions: ed application to Enginee anding application fee of aner) via check or credit of a check: k payable to the Mojave eck with a copy of this cesert AQMD Avenue	Signature of responsible official Email: Donald.A.Westbrook ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	@jpl.nasa.gov

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ment is made online via credit card, please email the receipt to

Click "Pay Fees"

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT ED BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAQMD 14306 Park Avenue Victorville CA 92392-2310

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022

Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD 19 APR 29 AM 9: 54

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT

Application number:



Company/facility number:

NASA/Goldstone 52-159790				al tax ID #; 4
c. Mailing/billing address (for abo 93 Goldstone Road, Fort Irwin, CA S		state and zip code:		
d. Facility or business license nam	e (for equipment location):			
e. Facility Address — Location of Same	equipment (if same as for compa	any, enter "Same"):		Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.na	esa nov	Phone: 760-255-8225
General nature of business: Deep Space Communications	St. Erio Alialyst	Mark.s.oonloid@pl.ne	Jan.gov	Company NAICS: 517919
Type of Organization Individual owner Pa Federal agency	artnership	Utility Loca	al agenc	y 🗖 State agency
New construction Modifi	cation Change of owner	E000277 Cu	rrent Pe	rmit Number
Application is hereby made for th Diesel IC Engine, Emergency Generator Application is for what type of pe		For modification or change		
		E000277 C.	rrent Pe	waste Klaussin au
I New Construction E Modifi	cation in Change of owner	Cu	HEHELE	rmit Number
Do you claim Confidentiality of D			0.504-0.5	
			0.504-0.4	
Do you claim Confidentiality of D Section 3: Equipme	nt information	ach explanation; specify which	0.504-0.4	
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri	nt information ef description of the equipment	ach explanation; specify which	0.504-0.4	
Do you claim Confidentiality of D Section 3: Equipme	nt information ef description of the equipment	ach explanation; specify which	0.504-0.4	ation provided is confidential)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri	nt information ef description of the equipment	ach explanation; specify which	0.504-0.4	
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri	nt information ef description of the equipment	ach explanation; specify which	0.504-0.4	
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Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri (Unit #4B: Building G-81) Year of Manufacture	nt information ef description of the equipment	ach explanation; specify which	n inform	ation provided is confidential)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri (Unit #4B: Building G-81) Year of Manufacture Manufacturer: Caterpillar	nt information lef description of the equipment	ach explanation; specify which and/or process): Serial nu	minform	ation provided is confidential)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri (Unit #4B: Building G-81) Year of Manufacture	Model: 399	ach explanation; specify which and/or process): Serial nur st APCE require a separate app	minform	ation provided is confidential)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri (Unit #4B: Building G-81) Year of Manufacture Manufacturer: Caterpillar Add-on air pollution control equi If yes: Manufacturer:	nt information lef description of the equipment 1973 Model: 399 Ipment? Yes No (Note: mos	ach explanation; specify which and/or process): Serial nur st APCE require a separate app	mber: 38	ation provided is confidential) 58834)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri (Unit #4B: Building G-81) Year of Manufacture Manufacturer: Caterpillar Add-on air pollution control equi If yes: Manufacturer: Type (specify): Stack data Exhaust stack heigh	Model: 399 Model: Se Model: Se Model: Se	ach explanation; specify which and/or process): Serial number of the separate appears of the separate	mber: 30	ation provided is confidential)

-For District use only-

Invoice number:

Permit number:

DI.	source specified):		
✓ Manufacturer	t MDAQMD default	Jusepa ap-42	
Emissions data:			
Pollutant Pre-control max, emis	ssions Units	Post control max. emissions	Units
NO _x			
ria Len			
NMHC			
со			
PM ₁₀			1
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operation	n information		
Fuel Consumption: 68		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%			
Facility annual operation by quart		Expected operating hours of equipment	24
Uniform OR % Jan-Ma	ar % Apr-Jun	4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-D)ec	Total annual hours _288	
If the proposed equipment operar		ol site and operation results in the emission o	of hazardous air
as requested in a Section 7: Certificat	taff may contact you for fu timely manner may result	rther information. Failure to provide addit in delays in the processing of this permit (ional information
*Please note: District s as requested in a Section 7: Certificat	taff may contact you for fu timely manner may result	rther information. Failure to provide addit in delays in the processing of this permit (ional information
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*Please note: District s as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official Phone: 760-255-8423	taff may contact you for fu timely manner may result tion n contained herein is true and Complex Manager Official title	rther information. Failure to provide addition to the processing of this permit of the correct.	ional information application. 4/16/15 Date signed
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3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT RECEIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAQMD 14306 Park Avenue, Victorville, CA 92392-2310

760.245.1661 • Fax 760.245.2022

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General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT

Application number:



a. Permit to be issued to (company name): NASA/Goldstone b. Federa 52-159790			Federal tax ID #: 1597904
c. Mailing/billing address (for abo 93 Goldstone Road, Fort Irwin, CA 9			
d. Facility or business license nam			
e. Facility Address — Location of a	equipment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nas	Phone: a.gov 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Pa Federal agency	rtnership 🗖 Corporation	☐ Utility ☐ Local	agency State agency
Section 2: Nature o			
Application is hereby made for th Diesel IC Engine, Emergency Generator	e following equipment:		
Application is for what type of pe	rmit:	For modification or change of	of owner;
			of owner: rent Permit Number
☐ New construction ☑ Modifi	cation	E000278 Curr	ent Permit Number
Application is for what type of pe New construction Modifi Do you claim Confidentiality of D	cation	E000278 Curr	
New construction Modification Modification New Confidentiality of D	cation Change of owner ata? No Yes (atta	E000278 Curr	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification Modification New Confidentiality of December 1	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Currench explanation; specify which	ent Permit Number
New construction Modification M	cation Change of owner ata? No Yes (atta nt information ef description of the equipment	E000278 Curion Curion Curion English Curion	ent Permit Number
New construction Modification M	cation Change of owner ata? No Pes (attained) nt information ef description of the equipment 1967 Model: 398	E000278 Curion Curion Curion E000278 Curion Curion Curion Curion Curion E000278 Curion	ent Permit Number information provided is confidential der: 6682912
New construction Modification Modification Modification Modification Modification Programme Section 3: Equipme Equipment description (give a brian (Unit #4A: Building G-81) Year of Manufacture Manufacturer: Caterpillar	nt information ef description of the equipment 1967 Model: 398 pment? Yes No (Note: mos	E000278 Curl ach explanation; specify which and/or process): Serial num at APCE require a separate appli	ent Permit Number information provided is confidential der: 6682912
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New construction Modification Modification Modification Modification Modification Manufacture Manufacturer: Caterpillar Add-on air pollution control equilif yes: Manufacturer:	Cation Change of owner ata? No Yes (attained in the equipment of the equi	E000278 Curl ach explanation; specify which and/or process): Serial num at APCE require a separate appli	ent Permit Number information provided is confidential ber: 66B2912 ication) ARB EO#:
New construction Modification Modification Modification Modification Modification Modification Modification Manufactures: Manufacturer: Caterpillar	Cation Change of owner ata? No Yes (attained in the information of the equipment 1967 Model: 398 pment? Yes No (Note: most information) Model: Second from ground: 21	E000278 Curl ach explanation; specify which and/or process): Serial num t APCE require a separate applerial #: Curl feet Exhaust stack diameter:	ent Permit Number information provided is confidential ber: 66B2912 ication) ARB EO#:

Invoice number:

Permit number:

Company/facility number:

	/ source specified):		
Emission Factor Basis (attach any Manufacturer Source te Other (please specify):	st MDAQMD default		
Emissions data:	- N		
Pollutant Pre-control max. em		Post control max. emissions	Units
NO _x			
NMHC			
co			
PM ₁₀			
SO ₄			
Toxic pollutants — Please includ	e a list of all toxic air pollutants	and their emission rates if known.	
Toxic pollutarits Trease includ	c a list of all toxic all pollations	and then emission rates it known.	
Section 5: Operation	on information		
Fuel Consumption: 48		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%			
Facility annual operation by quar		Expected operating hours of equipment	
Uniform OR % Jan-N		4 Hrs/day 3 Days/wk	Wk/yr
% Jul-Sep% Oct-	Dec	Total annual hours 288	
Section 6: Recepto	r information		
Distance (feet) and direction to t		016 S résidence 36,432 S business	50,160 S sch
Name of closest school (K-12)			
If the proposed equipment oper	ator within 1 000 foot of a scho	at also and annuation moules to the analysism of	
pollutants, a public notice will b			hazardous air
pollutants, a public notice will be *Please note: District as requested in	e required at the expense of the staff may contact you for fu a timely manner may result		onal information
*Please note: District as requested in Section 7: Certifica	e required at the expense of the staff may contact you for fu a timely manner may result tion	ne applicant (CH&S \$42301.6) rther information. Failure to provide additi in delays in the processing of this permit a	onal information
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3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392 1300 Q M D 760.245.1661 • Fax 760.245.2022

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General Application Form

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PLEASE TYPE OR PRINT

Application number:



Company/facility number:

a. Permit to be issued to (com	npany name);		ral tax ID #:
NASA/Goldstone	904		
 Mailing/billing address (for 93 Goldstone Road, Fort Irwin, 	above company name) include city, sto CA 92310	ate and zip code:	
d. Facility or business license	name (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for compan	y, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.go	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Local age	ncy State agency
Section 2: Nature			
Application is hereby made for Diesel IC Engine, Emergency General			
Application is for what type o	of permit:	For modification or change of ov	ner:
	A S Y Audient Committee of the Committee		ner: Permit Number
New construction M	odification		Permit Number
Application is for what type o New construction Mo Do you claim Confidentiality	odification	E000279 Current	Permit Number
New construction Mo	odification	E000279 Current	Permit Number
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New construction Moderation Moderation Confidentiality of Section 3: Equipm	odification	E000279 Current Ch explanation; specify which information	Permit Number
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New construction Moderated Moderate Mod	odification Change of owner of Data? No Yes (attace ment information a brief description of the equipment are acture 1965	E000279 Current th explanation; specify which information nd/or process):	Permit Number mation provided is confidential)
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New construction Moderated Moderate Moderate Moderate Moderate Moderate Moderate Moderate Manufacturer; Caterpillar	odification Change of owner of Data? No Yes (attace ment information a brief description of the equipment are acture 1965 Model: 398 equipment? Yes No (Note: most	E000279 Current Ch explanation; specify which information Ind/or process): Serial number: APCE require a separate application	Permit Number mation provided is confidential,
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a (Unit #3A: Building G-81) Year of Manufa Manufacturer: Caterpillar Add-on air pollution control of tyes: Manufacturer:	odification Change of owner of Data? No Yes (attace ment information a brief description of the equipment are acture 1985 Model: 398 equipment? Yes No (Note: most Model: Seri	E000279 Current Ch explanation; specify which information Ind/or process): Serial number: APCE require a separate application	Permit Number mation provided is confidential,
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a (Unit #3A: Building G-81) Year of Manufa Manufacturer: Caterpillar Add-on air pollution control of 19 yes: Manufacturer: Type (specify): Stack data Exhaust stack h	odification Change of owner of Data? No Yes (attack ment information a brief description of the equipment an acture 1985 Model: 398 equipment? Yes No (Note: most	Current ch explanation; specify which inform nd/or process): Serial number: APCE require a separate application ial #: CARB	Permit Number mation provided is confidential, 66B733 pn) EO#:

Invoice number:

Permit number:

Emission Factor Basis (attach any	source specified):		
☐ Manufacturer ☐ Source tes☐ Other (please specify):	t MDAQMD default	JUSEPA AP-42	
Emissions data:			
Pollutant Pre-control max. emi	issions Units	Post control max. emissions	Units
NO _x			
NMHC			
20			
PM ₁₀			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption: 48		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%			
Facility annual operation by quart		Expected operating hours of equipmen	
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/w	
% Jul-Sep% Oct-E	Dec	Total annual hours 288	
*Please note: District s	tes within 1,000 feet of a scho e required at the expense of th staff may contact you for ful	ol site and operation results in the emission e applicant (CH&S §42301.6) rther information. Failure to provide addi in delays in the processing of this permit	tional information
Section 7: Certificat	tion		
I hereby certify that all information	on contained herein is true and	correct.	
,,			
	Complex Manager	David Wit	4/16/19
Donald Westbrook	Complex Manager Official title	Signature of responsible official	4/16/19 Date signed
Donald Westbrook Name of responsible official Phone: 760-255-8423	Official title	Signature of responsible official Email: Donald.A.Westbroo	
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsor for change of ow Payment b Make check Mail the check Mojave De 14306 Park	Official title instructions: ed application to Enginee inding application fee of iner) via check or credit of instructions: ed application to Enginee inding application fee of iner) via check or credit of instructions in the Mojave eck with a copy of this consert AQMD Avenue	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modified	k@jpl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the correspondor change of ow Payment b Make check Mail the check Mojave De 14306 Park Victorville, 6	Official title instructions: ed application to Enginee inding application fee of iner) via check or credit of instructions: ed application to Enginee inding application fee of iner) via check or credit of instructions in the Mojave eck with a copy of this consert AQMD Avenue	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modifiectard. Desert AQMD	k@jpl.nasa.gov

Please note: a surcharge applies for all credit card payments.

ment is made online via credit card, please email the receipt to

Click "Pay Fees"

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT CEIVED
READ POIRIEZ, EXECUTIVE DIRECTOR
MDAQMD 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov

Stack data Exhaust stack height from ground: 27.9

✓ vertical □open ✓ weather cap

Stack is: horizontal

Application number:

Vent data: Exhaust temp. 738

19 APR 29 AM 9: 5

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DI CACE TUDE OD DDIAIT



NASA/Goldstone	npany name):	b. Federa 52-159790	al tax ID #: 4
93 Goldstone Road, Fort Irwin		tate and zip code:	
d. Facility or business license	name (for equipment location):		
e. Facility Address — Location Same	n of equipment (if same as for compar	ny, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.gov	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
	Partnership	☐ Utility ☐ Local agend	y State agency
Federal agency			
Application is for what type of New construction M	odification		ermit Number
Do you claim Confidentiality	of Data? Ves (atta	ch explanation; specify which inform	ation provided is confidential)
	mant intownation		
Equipment description (give	a brief description of the equipment a	and/or process):	
	a brief description of the equipment a	and/or process):	
Equipment description (give	a brief description of the equipment a	and/or process):	
Equipment description (give	a brief description of the equipment a	and/or process):	
Equipment description (give	a brief description of the equipment a	and/or process);	
Equipment description (give (Unit #1A: Building G-B1) Year of Manul	a brief description of the equipment a facture 1984		SR2911
Equipment description (give (Unit #1A: Building G-B1) Year of Manuf	a brief description of the equipment a facture 1984 Model: 398	Serial number: <u>6</u>	
Equipment description (give (Unit #1A: Building G-B1) Year of Manuf Manufacturer: Caterpillar Add-on air pollution control	a brief description of the equipment a facture 1984 Model: 398 equipment? Yes No (Note: most	Serial number: <u>6</u> t APCE require a separate application)
(Unit #1A: Building G-B1) Year of Manuf	a brief description of the equipment a facture 1984 Model: 398 equipment? Yes No (Note: most	Serial number: <u>6</u>)

Permit number: Company/facility number: Invoice number:

-For District use only-

°F Maximum exhaust rate (CFM): 1155

Section 4: Emission		e periodica e un	
Emission Factor Basis (attach any	- 77 F. S.F.		
☐Manufacturer ☐Source tes		JUSEPA AP-42	
Other (please specify): Emissions data:			
Pollutant Pre-control max. emi	ssions Units	Post control max, emissions	Units
	SSIOIIS UIIIS	FOST CONTROL MAX. EMISSIONS	Olits
NO _x			
NMHC			
со			
PM ₁₀			
\$O _x			
30 _k			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio			
Fuel Consumption: 48	at max rated load 🔽	gal/hour SCF/hour MMBtu/hr	
Typical load: 70%		Te and an in a constant	
Facility annual operation by quart Uniform OR % Jan-M		Expected operating hours of equipment 4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-E		Total annual hours 208	vvk/yi
% ли-зер% осс-с	/ec	Total affilial flours	
Section 6: Receptor	information		
Distance (feet) and direction to th		016 S residence 36,432 S business	50,160 s school
		Tesidence	301001
Name of closest school (K-12)		ol site and operation results in the emission o	f hazardous air
pollutants, a public notice will be			nozuruous un
		rther information. Failure to provide additi in delays in the processing of this permit a	
Section 7: Certificat			Charles and the second
I hereby certify that all informatio	167-143-1	correct	
Thereby certify that all intermeted	in contained netern is true and	- Correct	
Donald Westbrook	Complex Manager	David west	1/11/2
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-255-8423	Official date	Email: Donald.A.Westbrook(-
11010, 100 200 0420		Email: Solidion in vision solid	S)billiaga.gov
andientlen enhadeslen i	waterrations.	-	
Application submission i		oring@mdagmd ca gov	
	ed application to Enginee	이 얼마 아래로 하는 것이 아니는 아이들이 되었다면 되었다.	
		\$288 per permit for new or modified	permit (or \$164
	ner) via check or credit o	card.	
Payment b			
	c payable to the Mojave		
Mail the ch	eck with a copy of this c	ompleted application to:	
	sert AQMD	The state of the s	
14306 Park	Avenue		
Victorville,	CA 92392		
Payment b	y credit card:		

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at engineering@mdaqmd.ca.gov

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT **BRAD POIRIEZ, EXECUTIVE DIRECTOR** MDAQMD

14306 Park Avenue, Victorville, CA 92392-2310

760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov

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19 APR 29 AM 9: 54

General Application Form

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PLEASE TYPE OR PRINT

Vent data: Exhaust temp. 738

Application number:



 Permit to be issued to (com NASA/Goldstone 	npany name):	b. Fede 52-1597	eral tax ID #:
77777	above company name) include city,	700 (3.0) (1)	
TO SELECT SERVICE SERV	name (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.go	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	Utility Local age	ncy State agency
Application is hereby made for			
Application is hereby made for Diesel IC Engine, Emergency General	or the following equipment:	For modification or change of ov	vner:
Application is hereby made for Diesel IC Engine, Emergency General Application is for what type o	or the following equipment: of permit:	and the second s	vner: Permit Number
Application is hereby made for Diesel IC Engine, Emergency General Application is for what type on the New construction	or the following equipment: of permit: odification	and the second s	Permit Number
Application is hereby made for Diesel IC Engine, Emergency General Application is for what type on the New construction of Modern Modern Modern Confidentiality of the Modern Mod	or the following equipment: of permit: odification	E000281 Current ach explanation; specify which infor	Permit Number
Application is hereby made for Diesel IC Engine, Emergency General Application is for what type of New construction Do you claim Confidentiality of Section 3: Equipment Equipment description (give a (Unit #2A: Building G-81) Year of Manufathanus	or the following equipment: of permit: odification	E000281 Current ach explanation; specify which infor and/or process): Serial number:	Permit Number mation provided is confidential)
Application is hereby made for Diesel IC Engine, Emergency General Application is for what type or New construction Do you claim Confidentiality or Section 3: Equipm Equipment description (give a (Unit #2A: Building G-81) Year of Manufacturer; Caterpillar	or the following equipment: of permit: odification	E000281 Current ach explanation; specify which infor and/or process): Serial number:	Permit Number mation provided is confidential) 6682909

-For District use only-

Permit number:

Company/facility number:

°F Maximum exhaust rate (CFM): 1155

Invoice number:

The state of the s	source specified):		
Manufacturer Source tes		USEPA AP-42	
Emissions data:			
Pollutant Pre-control max, emi	issions Units	Post control max. emissions	Units
NO _x			
NMHC			
co		-	
ΡΜ1α			
SO _x			
Toxic pollutants — Please include	e a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption: 48		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	at max rated road [1]	guynoui [[]Selynoui [[]mmstayni	
Facility annual operation by quar		Expected operating hours of equipment	47
✓ Uniform OR % Jan-M		4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-I	Dec	Total annual hours 288	
Section 6: Receptor	rinformation		
Distance (feet) and direction to the	he property line of closest: 38,0	residence 36,432 s business	50,160 S school
Name of closest school (K-12)	ewis Elementary		
If the proposed equipment opera pollutants, a public notice will be	ates within 1,000 feet of a school	ol site and operation results in the emission of e applicant (CH&S §42301.6)	f hazardous air
		a care and	
as requested in a	a timely manner may result i	ther information. Failure to provide additi in delays in the processing of this permit a	
as requested in a Section 7: Certification	timely manner may result t	n delays in the processing of this permit a	
as requested in a	timely manner may result t	n delays in the processing of this permit a	
as requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook	timely manner may result to tion on contained herein is true and Complex Manager	correct.	
as requested in a Section 7: Certifica I hereby certify that all information Donald Westbrook Name of responsible official	a timely manner may result to tion on contained herein is true and	correct. David Windless Signature of responsible official	4/16/19 Date signed
as requested in a Section 7: Certificate I hereby certify that all information	timely manner may result to tion on contained herein is true and Complex Manager	correct.	4/16/19 Date signed
as requested in a Section 7: Certifican I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponse	tion on contained herein is true and Complex Manager Official title instructions: ed application to Enginee	correct. Day Watter Signature of responsible official Email: Donald.A.Westbrook@	# / 16 / 19 Date signed Dipl.nasa.gov
as requested in a Section 7: Certificate Interest certify that all information Interest certify that all information Interest certify that all information Interest certificate I	complex Manager Official title instructions: ed application to Engineer onding application fee of wher) via check or credit of the payable to the Mojave neck with a copy of this consert AQMD Avenue	correct. Dud With Signature of responsible official Email: Donald.A.Westbrook@ Pring@mdaqmd.ca.gov \$288 per permit for new or modified ard. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov 19 APR 29 AM 9: 54 www.MDAQMD.ca.gov • @MDAQMD

General Application Form

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PLEASE TYPE OR PRINT

Application number:



 Permit to be issued to (company na NASA/Goldstone 	me):		b. Federal tax ID #: 52-1597904
c. Mailing/billing address (for above of 93 Goldstone Road, Fort Irwin, CA 92310		tate and zip code:	
d. Facility or business license name (fo	r equipment location):		
e. Facility Address — Location of equi Same	oment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.	Phone: nasa.gov 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Partne Federal agency	rship Corporation	Utility Lo	cal agency 🔲 State agency
Section 2: Nature of a Application is hereby made for the fol Diesel IC Engine, Emergency Fire Pump	lowing equipment:	Facilities of the state of the	
Application is for what type of permit		For modification or chang	ge of owner:
■ New construction Modification	n Change of owner	E003381	Current Permit Number
Section 3: Equipment Equipment description (give a brief de		and/or process):	
Year of Manufacture 2000			
Manufacturer: Detroit Diesel	Model: VMFPT6HT		umber; <u>9</u> 18-1059
Add-on air pollution control equipme	nt? Yes No (Note: most	t APCE require a separate ap	oplication)
	Model: Se	rial #:	CARB EO#:
Type (specify):			
Stack data Exhaust stack height from Stack is: ☐ horizontal ☑ vertical	om ground: 10 fe	eet Exhaust stack diamete	r: feet_4"
Vent data: Exhaust temp.	°F Maximum exhaust rat		
	7.70.74	7	
	-For Distr	ict use only-	

Emission Factor Basis (attach any	source specified):		
Manufacturer Source test Other (please specify):	t MDAQMD default	JUSEPA AP-42	
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x .			
NMHC			
20			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section E. Oneratio	n information		
Section 5: Operation		gal/hour SCF/hour MMBtu/hr	
Fuel Consumption: 6 Typical load: 70%	at max rated load 📝	gal/hour SCF/hour MMBtu/hr	
Facility annual operation by quart	ers (percent):	Expected operating hours of equipment	
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-D	Dec	Total annual hours 288	
Section 6: Receptor Distance (feet) and direction to the		016 S residence 36,432 8 business	50,160 s scho
Name of closest school (K-12) Le	wis Elementary	ol site and operation results in the emission o	
Name of closest school (K-12) Le If the proposed equipment operations	wis Elementary tes within 1,000 feet of a school	ol site and operation results in the emission o	
Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a	wis Elementary tes within 1,000 feet of a schoo required at the expense of th taff may contact you for ful timely manner may result	ol site and operation results in the emission o	f hazardous air onal information
Name of closest school (K-12) Le If the proposed equipment operal pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat	wis Elementary tes within 1,000 feet of a schoor required at the expense of the staff may contact you for fur timely manner may result	ol site and operation results in the emission o e applicant (CH&S §42301.6) rther information, Failure to provide additi in delays in the processing of this permit a	f hazardous air onal information
Name of closest school (K-12) Le If the proposed equipment operal pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat	wis Elementary tes within 1,000 feet of a schoor required at the expense of the staff may contact you for fur timely manner may result	ol site and operation results in the emission o e applicant (CH&S §42301.6) rther information, Failure to provide additi in delays in the processing of this permit a	f hazardous air onal information
Name of closest school (K-12) Le If the proposed equipment operat pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat I hereby certify that all informatio	tes within 1,000 feet of a schoor required at the expense of the taff may contact you for full timely manner may result tion n contained herein is true and	ol site and operation results in the emission o e applicant (CH&S §42301.6) rther information, Failure to provide additi in delays in the processing of this permit a	f hazardous air onal information
Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook	tes within 1,000 feet of a school required at the expense of the taff may contact you for full timely manner may result tion In contained herein is true and Complex Manager	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) rther information. Failure to provide addition to the processing of this permit a correct.	f hazardous air onal information
Name of closest school (K-12) Le If the proposed equipment operal pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat I hereby certify that all informatio Donald Westbrook Name of responsible official	tes within 1,000 feet of a schoor required at the expense of the taff may contact you for full timely manner may result tion n contained herein is true and	ol site and operation results in the emission of eapplicant (CH&S §42301.6) If ther information, Failure to provide addition in delays in the processing of this permit a correct. Ovad touk Signature of responsible official	f hazardous air onal information pplication. 4/16/19 Date signed
Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all informatio	tes within 1,000 feet of a school required at the expense of the taff may contact you for full timely manner may result tion In contained herein is true and Complex Manager	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) rther information. Failure to provide addition to the processing of this permit a correct.	f hazardous air onal information pplication. 4/16/19 Date signed
Name of closest school (K-12) Leaf the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete	tes within 1,000 feet of a school required at the expense of the taff may contact you for full timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: d application to Engineer	ol site and operation results in the emission of the applicant (CH&S \$42301.6) In the information, Failure to provide addition delays in the processing of this permit a correct. Oracle Turner Signature of responsible official Email: Donald.A.Westbrook(f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) Leaf the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponse	tes within 1,000 feet of a school required at the expense of the taff may contact you for full timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: d application to Engineer	ol site and operation results in the emission of the applicant (CH&S \$42301.6) In the information, Failure to provide addition delays in the processing of this permit a correct. Owner the processing of this permit a signature of responsible official Email: Donald.A.Westbrook(Corring@mdaqmd.ca.gov) \$288 per permit for new or modified	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) Leaf the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence of ow	tes within 1,000 feet of a school required at the expense of the staff may contact you for full timely manner may result tion In contained herein is true and Complex Manager Official title Instructions: In diagraphication to Engineer application fee of oner) via check or credit of	ol site and operation results in the emission of the applicant (CH&S \$42301.6) In the information, Failure to provide addition delays in the processing of this permit a correct. Owner the processing of this permit a signature of responsible official Email: Donald.A.Westbrook(Corring@mdaqmd.ca.gov) \$288 per permit for new or modified	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be *Please note: District so as requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspond for change of ow Payment b	tes within 1,000 feet of a school required at the expense of the staff may contact you for full timely manner may result tion In contained herein is true and Complex Manager Official title Instructions: In diagraphication to Engineer application fee of oner) via check or credit of	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) In ther information. Failure to provide addition delays in the processing of this permit a correct. Oracle Correct. Signature of responsible official Email: Donald.A.Westbrook(correct) Pering@mdaqmd.ca.gov \$288 per permit for new or modified card.	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be *Please note: District so as requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Payment bo Make check Mail the check	tes within 1,000 feet of a school required at the expense of the staff may contact you for full timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: d application to Engineer application fee of ner) via check or credit of y check: c payable to the Mojave eck with a copy of this contained at the school of the copy of this contained at the school of th	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) In ther information. Failure to provide addition delays in the processing of this permit a correct. Oracle Correct. Signature of responsible official Email: Donald.A.Westbrook(correct) Pering@mdaqmd.ca.gov \$288 per permit for new or modified card.	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Payment bo Make check Mail the check Mojave De	tes within 1,000 feet of a school required at the expense of the staff may contact you for full timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: d application to Engineer and application fee of ner) via check or credit of y check: k payable to the Mojave eck with a copy of this cosert AQMD	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) In ther information. Failure to provide addition delays in the processing of this permit a correct. Description of the processing of the permit and the permi	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponsion for change of ow Payment b Make check Mail the check Mojave De 14306 Park	tes within 1,000 feet of a school required at the expense of the staff may contact you for full timely manner may result tion n contained herein is true and Complex Manager Official title nstructions: d application to Engineer and application fee of ner) via check or credit of y check: c payable to the Mojave eck with a copy of this cosert AQMD Avenue	ol site and operation results in the emission of eapplicant (CH&S \$42301.6) In ther information. Failure to provide addition delays in the processing of this permit a correct. Description of the processing of the permit and the permi	f hazardous air onal information pplication. 4/16/19 Date signed @jpl.nasa.gov
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3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: engineering@mdaqmd.ca.gov
www.MDAQMD.ca.gov • @MDAQMD

RECEIVED MDAQMD

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General Application Form

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PLEASE TYPE OR PRINT

Application number:



NASA/Goldstone	any name):	1/2	Federal tax ID #: 1597904
7 (7) (4) (4) (4) (4) (4) (4)	bove company name) include city, s	tate and zip code:	
d. Facility or business license na	ame (for equipment location):		
e. Facility Address — Location of Same	of equipment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.na:	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	☐ Utility ☐ Loca	agency State agency
			of owner: rent Permit Number
Section 2: Nature Application is hereby made for			
Application is for what type of	permit:	For modification or change	of owner:
New construction Mod	dification	E003382 Cur	rent Permit Number
a se and a color of	Data? No D Yes (atta	ach explanation; specify which	information provided is confidential
Do you claim Confidentiality of	- 1.0 - 1.00 (a.t.)		
	to de la company		
Section 3: Equipm Equipment description (give a l	to de la company	and/or process):	
Section 3: Equipm	ent information	and/or process):	
Section 3: Equipm Equipment description (give a l	ent information	and/or process):	
Section 3: Equipm Equipment description (give a l	ent information	and/or process):	
Section 3: Equipm Equipment description (give a l Year of Manufacture 1991	ent information brief description of the equipment		
Section 3: Equipm Equipment description (give a la Year of Manufacture 1991 Manufacturer: Cummins	ent information brief description of the equipment a	Serial nun	nber; 11638482
Section 3: Equipm Equipment description (give a la Year of Manufacture 1991 Manufacturer: Cummins Add-on air pollution control ec	ment information brief description of the equipment and the equipm	Serial nun t APCE require a separate app	nber: 11638482 ication)
Section 3: Equipm Equipment description (give a la Year of Manufacture 1991 Manufacturer: Cummins Add-on air pollution control eculif yes: Manufacturer:	Model: BT-855-64	Serial nun t APCE require a separate app	nber; 11638482
Section 3: Equipm Equipment description (give a la Year of Manufacture 1991 Manufacturer: Cummins Add-on air pollution control eculif yes: Manufacturer:	ment information brief description of the equipment a Model: BT-855-84 quipment? Yes No (Note: mos	Serial nun t APCE require a separate appi	nber: <u>11638482</u> ication) ARB EO#;
Section 3: Equipm Equipment description (give a la Year of Manufacture 1991 Manufacturer: Cummins Add-on air pollution control ed If yes: Manufacturer:	Model: BT-855-84 quipment? Yes No (Note: mos	Serial nun t APCE require a separate apportial #: C cet Exhaust stack diameter:	nber: 11638482 ication) ARB EO#:

-For District use only-

Permit number:

Company/facility number:

Invoice number:

	source specified):		
Manufacturer	t MDAQMD default	USEPA AP-42	
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x			
NMHC			
co			
PM ₁₀			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operation			
Fuel Consumption: 9	at max rated load	gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	and the state of t	Le sale se	
Facility annual operation by quarte		Expected operating hours of equipment	24 140.4.
Uniform OR % Jan-Ma % Jul-Sep% Oct-D		4 Hrs/day 3 Days/wk Total annual hours 288	Wk/yr
Section 6: Receptor	information		
Distance (feet) and direction to the	e property line of closest: 38,	.016 S residence 36,432 S business	50,160 S scho
Name of closest school (K-12)			
	tes within 1,000 feet of a scho	ool site and operation results in the emission of the applicant (CH&S \$42301.6)	f hazardous air
	taff may contact you for fu	rther information. Failure to provide addition	onal information
as requested in a	timely manner may result	in delays in the processing of this permit a	
as requested in a Section 7: Certificat	timely manner may result		
	timely manner may result		
as requested in a Section 7: Certificat Thereby certify that all information Donald Westbrook	timely manner may result tion n contained herein is true and Complex Manager	d correct.	4/16/15
as requested in a Section 7: Certificat Thereby certify that all information Donald Westbrook	timely manner may result tion n contained herein is true and	d correct.	
as requested in a Section 7: Certificat I hereby certify that all information	timely manner may result tion n contained herein is true and Complex Manager	d correct.	A/16/19 Date signed

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICTO **BRAD POIRIEZ, EXECUTIVE DIRECTOR** MDAOMD

14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022

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General Application Form

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PLEASE TYPE OR PRINT



NASA/Goldstone	pany name):		b. Fed 52-159	leral tax ID #:
Mailing/billing address (for a 93 Goldstone Road, Fort Irwin, C		lude city, state and	1,100,000	7997
d. Facility or business license na		on):		
	(
e. Facility Address — Location of Same	of equipment (if same as f	for company, ente	r "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title; Sr. EHS Analyst		Email address: Mark.J.Solheid@jpl.nasa.g	Phone: 760-255-8225
General nature of business: Deep Space Communications				Company NAICS: 517919
Type of Organization	Partnership	poration 🗖	Utility 🔲 Local ag	ency State agency
Section 2: Nature Application is hereby made for				
Diesel IC Engine, Emergency Generato		1		
Application is for what type of			odification or change of o	
New construction Mod	dification	owner E0051	33 Curren	Permit Number
- Itali collectuellell - Itali	W	o miles	Carren	. remit (valide)
Do you claim Confidentiality of				
Do you claim Confidentiality of Section 3: Equipm	Political Politi	Yes (attach expl	anation; specify which info	rmation provided is confidential
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	Political Politi	Yes (attach expl	anation; specify which info	
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	Political Politi	Yes (attach expl	anation; specify which info	
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997	Political Politi	_Yes (attach expl n uipment and/or p	anation; specify which info	ermation provided is confidential
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997	ent information brief description of the equation Model:	Yes (attach expl.	anation; specify which info	ermation provided is confidential
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997 Manufacturer: Cummins Add-on air pollution control ed	Model: LTA	Yes (attach explination) Yes (attach explination) In pulpment and/or pulpmen	process): Serial number require a separate application	ermation provided is confidential
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997 Manufacturer: Cummins Add-on air pollution control ed If yes: Manufacturer:	Model: LTA quipment? Yes No (I	Yes (attach explination) Yes (attach explination) In pulpment and/or pulpmen	process): Serial number require a separate application	ermation provided is confidential 34886879 ion) EO#:
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997 Manufacturer: Cummins Add-on air pollution control ed If yes: Manufacturer:	Model: LTA Quipment? Yes No (I	Yes (attach expl. Note: most APCE Serial #:	process): Serial number require a separate application	ermation provided is confidential 34886879 ion)
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1997 Manufacturer: Cummins Add-on air pollution control ed If yes: Manufacturer:	Model: LTA quipment? Yes No (I) Model: LTA quipment? Yes No (I) Model:	Yes (attach explination) Note: most APCE (Serial #: feet Ex	Serial number equire a separate applicate CARI	ermation provided is confidential 34886879 ion) EO#:

Emission Factor Basis (attach any source specified):		
☑ Manufacturer ☐ Source test ☐ MDAQMD default ☐ ☐ Other (please specify):	USEPA AP-42	
Emissions data:	200000000000000000000000000000000000000	24.5
Pollutant Pre-control max. emissions Units	Post control max. emissions	Units
NO _x	8.40	gm/bhp-hr
NMHC		
co	1.16	gm/bhp-hr
PM ₁₀	0.50	gm/bhp-hr
SO _k	0.57	gm/bhp-hr
Toxic pollutants — Please include a list of all toxic air pollutants a	and their emission rates if known	
Toxic poliutants — Please include a list of all toxic air poliutants a	and their emission rates it known.	
Section 5: Operation information		
	gal/hour SCF/hour MMBtu/hr	
Typical load: 70%		
Facility annual operation by quarters (percent):	Expected operating hours of equipmer	it
Uniform OR % Jan-Mar % Apr-Jun	4 Hrs/day 3 Days/w	k _24 Wk/yr
% Jul-Sep% Oct-Dec	Total annual hours 2008	
Name of closest school (K-12) Lewis Elementary		
Name of closest school (K-12) Lewis Elementary If the proposed equipment operates within 1,000 feet of a school	l site and operation results in the emission	3510
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Section 7: Certification Thereby certify that all information contained herein is true and contained Westbrook Complex Manager	I site and operation results in the emission applicant (CH&S §42301.6) Ther information. Failure to provide additional delays in the processing of this permit correct.	of hazardous
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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT IVED BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 MDAQMD

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

19 /

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General Application Form

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PLEASE TYPE OR PRINT

Stack is: horizontal

Vent data: Exhaust temp.

Application number:

✓ vertical



Company/facility number:

NASA/Goldstone	mpany name):	b. Fede 52-15979	ral tax ID #:
c. Mailing/billing address (for 93 Goldstone Road, Fort Irwin	r above company name) include city, sto 1, CA 92310	ate and zip code:	
d. Facility or business license	name (for equipment location):		
e. Facility Address — Locatio Same	n of equipment (if same as for company	y, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.gov	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	☐ Utility ☐ Local age	ncy State agency
Section 2: Nature Application is hereby made f		9	
Application is for what type	of permit:	For modification or change of ow	ner:
		E009239 Current	
☐ New construction ☑ M	lodification LI Change of owner	Current	Permit Number
New construction MDo you claim Confidentiality		ch explanation; specify which infor	(6111.03.7.7.1.00.0.2.)
Do you claim Confidentiality Section 3: Equip		ch explanation; specify which infor	(6111.03.7.7.1.00.0.2.2.)
Do you claim Confidentiality Section 3: Equip Equipment description (give	of Data? No No Yes (attace	ch explanation; specify which infor	mation provided is confidential
Do you claim Confidentiality Section 3: Equip Equipment description (give Year of Manufacture 1989 Manufacturer: Detroit Diesel	ment information a brief description of the equipment ar Model: DDFP03ANHLH70	ch explanation; specify which infor nd/or process):	mation provided is confidential
Section 3: Equip Equipment description (give Year of Manufacture 1989 Manufacturer: Detroit Diesel Add-on air pollution control	ment information a brief description of the equipment ar Model: DDFP03ANHLH70 equipment? Yes No (Note: most	th explanation; specify which information in the explanation in the ex	mation provided is confidential
Do you claim Confidentiality Section 3: Equip Equipment description (give Year of Manufacture 1989 Manufacturer: Detroit Diesel Add-on air pollution control	ment information a brief description of the equipment ar Model: DDFP03ANHLH70	th explanation; specify which information in the explanation in the ex	mation provided is confidential 3A102239

-For District use only-

Permit number:

open weather cap

Invoice number:

°F Maximum exhaust rate (CFM):

ETHISSION FACTOR DASIS (ATTACH SHY S	source specified):		
✓ Manufacturer Source test ☐ Other (please specify):	: MDAQMD default		
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NO _x		10.0	gm/bhp-hr
NMHC			
со		5.0	gm/bhp-hr
PM ₁₀		1,0	gm/bhp-hr
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
APART OF STATE	7 (1 s / 1 s		
Section 5: Operation Fuel Consumption: 4		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%	at max rated load [V]	garriou Elixivista/iii	
71	ors (parcent):	Expected operating hours of occilence	of .
Facility annual operation by quarted Uniform OR % Jan-Ma		Expected operating hours of equipmer 4 Hrs/day 3 Days/w	k 24 Whar
			WK/yr
% Jul-Sep% Oct-D	ec	Total annual hours 288	
Distance (feet) and direction to the Name of closest school (K-12). Let of the proposed equipment operate	wis Elementary	old S residence 36,432 S busine busin	
pollutants, a public notice will be			
		ther information. Failure to provide add in delays in the processing of this permit	
as requested in a Section 7: Certificat	ion		
as requested in a Section 7: Certificat	ion		4/4/10
as requested in a Section 7: Certificat I hereby certify that all information	ion n contained herein is true and	correct.	4/16/19 Date signed
as requested in a Section 7: Certificat I hereby certify that all information Donald Westbrook	contained herein is true and	correct.	4/16/19 Date signed k@jpl.nasa.gov

Victorville, CA 92392

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT CEIVED BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAQMD

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310
760.245.1661 • Fax 760.245.2022
Email: engineering@mdaqmd.ca.gov
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General Application Form

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PLEASE TYPE OR PRINT

Application number:



Company/facility number:

 Permit to be issued to (com NASA/Goldstone 	pany name):		b. Feder 52-159790	al tax ID #: 04
c. Mailing/billing address (for 93 Goldstone Road, Fort Irwin,	above company name) <i>include</i> CA 92310	city, state and zip code:		
d. Facility or business license r	name (for equipment location):			
e. Facility Address — Location Same	of equipment (if same as for c	company, enter "Same"):		Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@	jpl.nasa.gov	Phone: 760-255-8225
General nature of business: Deep Space Communications				Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	ation Utility	Local agend	cy State agency
Section 2: Nature	of application			
Application is hereby made for Diesel IC Engine, Fire Pump				
Application is for what type of	f permit:	For modification or ch	ange of own	ner:

Application is for what type	of permit:	Fo	r modification	or change of owner	
New construction	Modification	owner E0	009240	Current Pern	nit Number
Do you claim Confidentialit	y of Data? 🔽 No 🔲	_Yes (attach e	explanation; spe	ecify which informat	ion provided is confidential)
Section 3: Equip	ment informatio	n			
Equipment description (give	e a brief description of the ec	quipment and/	or process):		
Manufacturer: Detroit Diesel	. Model: DDi	FP03ANHLH7086		Serial number: 3A1	02268
Manufacturer: Detroit Diesel Add-on air pollution contro	Model: ^{DDI} ol equipment? ☐ Yes ☑No (I		CE require a se		02268
Add-on air pollution contro		Note: most AP		parate application)	
Add-on air pollution contro	ol equipment? 🔲 Yes 📝 No (I	Note: most AP		parate application)	
Add-on air pollution control If yes: Manufacturer: Type (specify):	ol equipment? 🔲 Yes 📝 No (I	Note: most AP	#:	parate application) CARB EO#	
Add-on air pollution control If yes: Manufacturer: Type (specify):	ol equipment? Yes No (I Model: height from ground: 7	Note: most AP	#:	parate application) CARB EO#	k

Permit number:

Invoice number:

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Victorville, CA 92392

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICE D BRAD POIRIEZ, EXECUTIVE DIRECTOR MDAQMD

14306 Park Avenue, Victorville, CA 92392-2310

760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD

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General Application Form

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PLEASE TYPE OR PRINT

Application number:



Company/facility number:

a. Permit to be issued to (com	pany name):	- 2011	ederal tax ID #:
NASA/Goldstone			97904
 Mailing/billing address (for 93 Goldstone Road, Fort Irwin, 	above company name) include city, CA 92310	state and zip code:	
d. Facility or business license r	name (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for comp	pany, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	Utility Local a	gency State agency
Section 2: Nature			
Application is hereby made for Diesel IC Engine, Fire Pump	or the following equipment:		
Application is for what type of	f permit:	For modification or change of	OWNER
ripplication is for what type of	Politica	For modification of change of	Owner.
New construction Mo			nt Permit Number
New construction Mo	odification	E009241 Curre	nt Permit Number
	odification	E009241 Curre	
New construction Mc	odification	E009241 Curre	nt Permit Number
New construction Mode Mode Mode Mode Mode Mode Mode Mode	odification	E009241 Curre	nt Permit Number
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New construction Moderated Moderate Mod	odification	E009241 Curre	nt Permit Number
New construction Moderated Moderate Mod	odification	E009241 Curre	nt Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipn Equipment description (give a Year of Manufacture 1989	odification	E009241 Curre tach explanation; specify which in t and/or process):	nt Permit Number formation provided is confidential
New construction Mo Do you claim Confidentiality of Section 3: Equipn Equipment description (give a Year of Manufacture 1989 Manufacturer: Detroit Diesel	change of owner of Data? No Yes (at ment information brief description of the equipment	tach explanation; specify which in tand/or process): Serial numb	nt Permit Number formation provided is confidential , er: 4A0254393
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1989 Manufacturer: Detroit Diesel Add-on air pollution control e	Change of owner of Data?	tach explanation; specify which in tand/or process): Serial numbost APCE require a separate application.	nt Permit Number formation provided is confidential . er: 4A0254393
New construction Mc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1989 Manufacturer: Detroit Diesel Add-on air pollution control ellf yes: Manufacturer:	change of owner of Data? No Yes (at ment information brief description of the equipment	tach explanation; specify which in tand/or process): Serial numbost APCE require a separate application.	nt Permit Number formation provided is confidential . er: 4A0254393
New construction Mode Mode Mode Mode Mode Mode Mode Mode	Model: 10447110 equipment? Yes No (Note: model:	E009241 Curre tach explanation; specify which in t and/or process): Serial numb ost APCE require a separate applica Serial #: CAF	nt Permit Number formation provided is confidential . er: 4A0254393 ation)
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacturer 1989 Manufacturer: Detroit Diesel Add-on air pollution control e If yes: Manufacturer: Type (specify): Stack data Exhaust stack he	Model: 10447110 equipment? Yes No No Note: model:	E009241 Curre tach explanation; specify which in t and/or process): Serial numb ost APCE require a separate applicates Serial #: CAF	nt Permit Number formation provided is confidential . er: 4A0254393
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Year of Manufacture 1989 Manufacturer: Detroit Diesel Add-on air pollution control ellf yes: Manufacturer:	Model: 10447110 equipment? Yes No No Note: model:	E009241 Curre tach explanation; specify which in t and/or process): Serial numb ost APCE require a separate application Serial #: CAF feet Exhaust stack diameter:ap	nt Permit Number formation provided is confidential . er: 4A0254393 ation)

Invoice number:

Permit number:

Ellission ractor basis (attach any se	ource specified):		
✓ Manufacturer Source test ☐ Other (please specify):		Jusepa ap-42	
Emissions data:			
Pollutant Pre-control max. emiss	ions Units	Post control max, emissions	Units
NO _x		10.0	gm/bhp-hr
NMHC			
со		5.0	gm/bhp-hr
PM ₁₀		1.0	gm/bhp-hr
SO _x			
Toxic pollutants — Please include a	list of all toxic air pollutants	and their emission rates if known	
TOXIC PORUGANES — Flease include a	iist of all toxic all politicants	and their emission rates it known.	
Section 5: Operation	information		
Fuel Consumption: 7		gal/hour SCF/hour MMBtu/hr	
Typical load: 70%			
Facility annual operation by quarter	rs (percent):	Expected operating hours of equipmer	nt
Uniform OR % Jan-Mar		4 Hrs/day 3 Days/w	
% Jul-Sep% Oct-De	c	Total annual hours 288	
A CONTRACTOR OF THE PARTY OF TH	ACCUSTON OF THE		
Section 6: Receptor i	information		
Distance (feet) and direction to the	property line of closest: 38,1	016 S residence 36,432 S busine	ess 50,160 s school
Name of closest school (K-12) Lew	is Elementary		
If the proposed equipment operate pollutants, a public notice will be i	s within 1,000 feet of a school	ol site and operation results in the emission e applicant (CH&S §42301.6)	of hazardous air
as requested in a t Section 7: Certificati	on	rther information. Failure to provide add in delays in the processing of this permit	
I hereby certify that all information	contained herein is true and	correct.	
			. 1. 1.
Donald Westbrook	Complex Manager	D of Want	4/11/10
TO MA COMP. BUTCH STATES OF	Complex Manager Official title	Signature of responsible official	4/16/19 Date signed
Donald Westbrook Name of responsible official Phone: 760-255-8423		Signature of responsible official Email: Donald.A.Westbrook	Date signed k@jpl.nasa.gov
Name of responsible official			Date signed k@jpl.nasa.gov
Name of responsible official Phone; 760-255-8423	Official title		Date signed
Name of responsible official Phone: 760-255-8423 Application submission in	Official title	Email: Donald.A.Westbroo	Date signed k@jpl.nasa.gov
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed	Official title structions: application to Enginee	Email: Donald.A.Westbroomering@mdaqmd.ca.gov	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the correspond	Official title structions: application to Enginee	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modifie	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the corresponder change of own	official title structions: I application to Enginee ding application fee of er) via check or credit of	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modifie	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the corresponder of change of own Payment by	official title structions: l application to Enginee ding application fee of er) via check or credit of	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modified card.	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the corresponder of change of own Payment by Make check	official title structions: I application to Enginee ding application fee of er) via check or credit of check: payable to the Mojave	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modified and. Desert AQMD	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the corresponder change of own Payment by Make check Mail the chee	official title structions: I application to Enginee ding application fee of er) via check or credit of check: payable to the Mojave ck with a copy of this co	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modified card.	
Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completed 2) Pay the corresponder change of own Payment by Make check	official title structions: I application to Enginee ding application fee of er) via check or credit of check: payable to the Mojave ck with a copy of this co	Email: Donald.A.Westbroomering@mdaqmd.ca.gov \$288 per permit for new or modified and. Desert AQMD	

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PLEASE TYPE OR PRINT

Application number.



 a. Permit to be issued to (comp NASA/Goldstone 	any name):		. Federal tax ID #; -1597904
c. Mailing/billing address (for a 93 Goldstone Road, Fort Irwin, C	bove company name) include city, s A 92310	tate and zip code:	
d. Facility or business license na	ame (for equipment location):		
e. Facility Address — Location of Same	of equipment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nas	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Local	agency
New construction Mod Do you claim Confidentiality of			rrent Permit Number information provided is confidentia
Do you claim Confidentiality of	Data? Ves (atta	ch explanation; specify which	information provided is confidentia
Section 3: Equipm	ent information	Maria A	
	brief description of the equipment :		
	brief description of the equipment a	and/or process):	
Equipment description (give a	brief description of the equipment a	and/or process):	
Equipment description (give a	brief description of the equipment a	and/or process):	
Equipment description (give a	brief description of the equipment a	and/or process):	
Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun	brief description of the equipment a	and/or process): Serial num	nber:
Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer; Binks		Serial num	
Equipment description (give a #s, Binks MACH 1 HVLP Spray Gun Manufacturer; Binks Add-on air pollution control ec	Model: quipment? ☑ Yes ☑No (Note: <i>mos</i>	Serial num t APCE require a separate appl	
Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer; Binks Add-on air pollution control ed If yes: Manufacturer:	Model: quipment? ☐ Yes ☑ No (Note: <i>mos</i> i Model: Se	Serial num t APCE require a separate appl	lication)
Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer; Binks Add-on air pollution control ed If yes: Manufacturer: Type (specify): Stack data Exhaust stack he	Model: quipment? □ Yes ☑No (Note: <i>mos</i> Model: Se ight from ground: fe	Serial num t APCE require a separate appl rial #: C	lication) CARB EO#:
Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer; Binks Add-on air pollution control ed If yes: Manufacturer: Type (specify): Stack data Exhaust stack he	Model: quipment? ☐ Yes ☑ No (Note: <i>mos</i> i Model: Se	Serial num t APCE require a separate appl rial #: C eet Exhaust stack diameter:	lication) CARB EO#:

Permit number:

Company/facility number:

Invoice number:

Emission Factor Basis (attach any	source specified):		
✓ Manufacturer Source tes		LISEDA AB-42	
Other (please specify):	L MINDAQIVID deladit L	JUSEFA AF-42	
Emissions data:			
Pollutant Pre-control max. emi	ssions Units	Post control max. emissions	Units
NO _x			
NMHC			
co			
PM ₁₀			
SO _k			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption:		gal/hour SCF/hour MMBtu/hr	
Typical load:		w	
Facility annual operation by quart		Expected operating hours of equipment	47
✓ Uniform OR % Jan-M	ar % Apr-Jun	4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-E	Dec	Total annual hours 288	
Distance (feet) and direction to th	ne property line of closest: 38,0	residence 36,432 S business	50,160 S school
Section 6: Receptor Distance (feet) and direction to the Name of closest school (K-12) If the proposed equipment opera pollutants, a public notice will be	ne property line of closest: 38,0 ewis Elementary fes within 1,000 feet of a school	ol site and operation results in the emission o	30100
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment opera pollutants, a public notice will be *Please note: District sas requested in a	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur n timely manner may result i	ol site and operation results in the emission o	f hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment opera pollutants, a public notice will be "Please note: District sas requested in a Section 7: Certificat	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result i	ol site and operation results in the emission of e applicant (CH&S §42301.6) ther information. Failure to provide addition n delays in the processing of this permit a	f hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment opera pollutants, a public notice will be "Please note: District sas requested in a Section 7: Certificat	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result i	ol site and operation results in the emission of e applicant (CH&S §42301.6) ther information. Failure to provide addition n delays in the processing of this permit a	f hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment opera pollutants, a public notice will be "Please note: District sas requested in a Section 7: Certificat	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result i	ol site and operation results in the emission of e applicant (CH&S §42301.6) ther information. Failure to provide addition n delays in the processing of this permit a	f hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment opera pollutants, a public notice will be *Please note: District as requested in a Section 7: Certificat	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur timely manner may result it tion on contained herein is true and	ol site and operation results in the emission of e applicant (CH&S §42301.6) ther information. Failure to provide addition n delays in the processing of this permit a	f hazardous air
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificate I hereby certify that all information Donald Westbrook Name of responsible official	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur timely manner may result it tion on contained herein is true and Complex Manager	ol site and operation results in the emission of applicant (CH&S \$42301.6) ther information. Failure to provide addition delays in the processing of this permit approximation.	f hazardous air onal information oplication. 4/16/19 Date signed
Distance (feet) and direction to the Name of closest school (K-12) Lef the proposed equipment operate pollutants, a public notice will be *Please note: District as requested in a Section 7: Certifical I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence of ow Payment by Legisland Section 10 of the correspondence of	ne property line of closest: 38,0 ewis Elementary fes within 1,000 feet of a school e required at the expense of the staff may contact you for fur n timely manner may result it tion on contained herein is true and Complex Manager Official title contained to Enginee and application to Enginee of application fee of the or check:	ol site and operation results in the emission of applicant (CH&S \$42301.6) ther information. Failure to provide addition delays in the processing of this permit appropriate to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the processing of the permit appropriate to provide additional to the permit appropriate to provide additional to the permit appropriate to	f hazardous air onal information pplication. A/16/19 Date signed
Distance (feet) and direction to the Name of closest school (K-12) Left the proposed equipment operate pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificate I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit completes 2) Pay the correspondence of owe Payment be Make check Mail the check Mojave De	ne property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result it tion Complex Manager Official title contained herein is true and it complex Manager Official title contained herein to Enginee and it contained herein is true and it contained herei	ol site and operation results in the emission of applicant (CH&S \$42301.6) ther information. Failure to provide addition delays in the processing of this permit approximation of the processing of the permit approximation of the	f hazardous air onal information oplication. 4/16/19 Date signed
Distance (feet) and direction to the Name of closest school (K-12) Left the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certifical I hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the correspondence for change of ow Payment be Make check Mail the ch	tes property line of closest: 38,0 ewis Elementary tes within 1,000 feet of a school e required at the expense of the staff may contact you for fur a timely manner may result it tion Complex Manager Official title instructions: ed application to Enginee anding application fee of start of the contact	ol site and operation results in the emission of applicant (CH&S \$42301.6) ther information. Failure to provide addition delays in the processing of this permit approximation of the processing of the permit approximation of the	f hazardous air onal information oplication. A/16/19 Date signed

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 DAOMD 760.245.1661 • Fax 760.245.2022

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c. Mailing/billing address (for a	above company name) include city,		100,007
93 Goldstone Road, Fort Irwin, 0			
d. Facility or business license n	ame (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for compa	any, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nas	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership	Utility Local	agency State agency
2 10 10 10 10 10			
Section 2: Nature			
Application is hereby made for Portable Spray Gun	r the following equipment:		
Application is for what type of	permit:	Carrier Alternation and allege	Z zivina a no
Albertanian at 121 more Albertan	permit	For modification or change of	or owner:
			rent Permit Number
New construction Mo	dification	P012831 Curi	
New construction Mo	dification	P012831 Curi	rent Permit Number
New construction Mo	dification Change of owner f Data? Ves (att	P012831 Curi	rent Permit Number
New construction Mo Do you claim Confidentiality o	dification Change of owner f Data? No Yes (att	P012831 Cure ach explanation; specify which	rent Permit Number
New construction Mo Do you claim Confidentiality o	dification Change of owner f Data? Ves (att	P012831 Cure ach explanation; specify which	rent Permit Number
New construction Mo Do you claim Confidentiality o Section 3: Equipm Equipment description (give a	dification Change of owner f Data? No Yes (att	P012831 Cure ach explanation; specify which	rent Permit Number
New construction Mo Do you claim Confidentiality o Section 3: Equipm Equipment description (give a	dification Change of owner f Data? No Yes (att	P012831 Cure ach explanation; specify which	rent Permit Number
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New construction Mo Do you claim Confidentiality o Section 3: Equipm Equipment description (give a	dification Change of owner f Data? No Yes (att	P012831 Cure ach explanation; specify which	rent Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks	dification Change of owner f Data? No Yes (att nent information brief description of the equipment Model:	P012831 Curl ach explanation; specify which and/or process): Serial num	rent Permit Number information provided is confidential)
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks	dification Change of owner f Data? No Yes (att nent information brief description of the equipment	P012831 Curl ach explanation; specify which and/or process): Serial num	rent Permit Number information provided is confidential)
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control e	dification Change of owner f Data? No Yes (att nent information brief description of the equipment Model:	P012831 Curl ach explanation; specify which and/or process): Serial num st APCE require a separate appli	rent Permit Number information provided is confidential) ber:
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control e If yes: Manufacturer:	dification Change of owner f Data? No Yes (att nent information brief description of the equipment Model: quipment? Yes No (Note: model)	P012831 Curl ach explanation; specify which and/or process): Serial num st APCE require a separate appli	rent Permit Number information provided is confidential) ber:
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control e If yes: Manufacturer:	dification Change of owner f Data? No Yes (att nent information brief description of the equipment Model: quipment? Yes No (Note: mo.	P012831 Curl ach explanation; specify which and/or process): Serial num st APCE require a separate appli	rent Permit Number information provided is confidential) ber: ication) ARB EO#:
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control e If yes: Manufacturer:	Model: Model:	P012831 Curl ach explanation; specify which and/or process): Serial num st APCE require a separate appli erial #: Curl feet Exhaust stack diameter:	rent Permit Number information provided is confidential) ber: ication) ARB EO#:

Invoice number:

Permit number:

Company/facility number:

Little stor Lactor Dasis (attach any	source specified):		
✓ Manufacturer Source test ☐ Other (please specify):	MDAQMD default		
Emissions data:			
Pollutant Pre-control max. emis	ssions Units	Post control max. emissions	Units
NÔ _x			
NMHC			
0			
PM ₁₀			
SO _x			
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
	D. L. J. A. T. VII. T. T.		
Section 5: Operation	n information		
Fuel Consumption:		gal/hour SCF/hour MMBtu/hr	
Typical load:			
acility annual operation by quart		Expected operating hours of equipmen	t
✓ Uniform OR % Jan-Ma		4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-D	ec.	Total annual hours _ ZIB	
	e property line of closest: 38	o16 S residence 36,432 S busines	55 50,160 s scho
Name of closest school (K-12) Le	wis Elementary tes within 1,000 feet of a scho	ol site and operation results in the emission	
Name of closest school (K-12) Le If the proposed equipment operation pollutants, a public notice will be *Please note: District s as requested in a	wis Elementary tes within 1,000 feet of a scho required at the expense of th taff may contact you for fu timely manner may result	ol site and operation results in the emission	of hazardous air tional information
Name of closest school (K-12) Le If the proposed equipment operate Pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat	wis Elementary tes within 1,000 feet of a scho required at the expense of the taff may contact you for fu timely manner may result	ol site and operation results in the emission of the applicant (CH&S §42301.6) Ther information. Failure to provide addit in delays in the processing of this permit	of hazardous air tional information
Name of closest school (K-12) If the proposed equipment operate pollutants, a public notice will be *Please note: District s as requested in a Section 7: Certificat	wis Elementary tes within 1,000 feet of a scho required at the expense of the taff may contact you for fu timely manner may result	ol site and operation results in the emission of the applicant (CH&S §42301.6) Ther information. Failure to provide addit in delays in the processing of this permit	of hazardous air tional information
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Name of closest school (K-12) If the proposed equipment operation pollutants, a public notice will be *Please note: District sas requested in a Section 7: Certificat hereby certify that all information Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission in 1) Submit complete 2) Pay the corresponsion for change of own Payment by Make check Mail the check	wis Elementary tes within 1,000 feet of a school required at the expense of the taff may contact you for full timely manner may result timely manner may result in contained herein is true and Complex Manager Official title In contained herein is true and Complex Manager Official title In structions: If a population to Engineer and application fee of the population of the contained herein is true and Complex Manager Official title In structions: If a population to Engineer application fee of the population of the population of the contained herein is true and Complex Manager Official title	ol site and operation results in the emission of applicant (CH&S §42301.6) In the information. Failure to provide addition delays in the processing of this permit of the correct. Data Table Signature of responsible official Email: Donald.A.Westbrook	tional information application. 4 116 19 Date signed

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

Click "Pay Fees"

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR MD A Q MD 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov 19 APR 29 AH 9: 55

www.MDAQMD.ca.gov • @MDAQMD

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)

PLEASE TYPE OR PRINT

Application number:



Company/facility number:

 Permit to be issued to (compar NASA/Goldstone 	ny name):	1 - 5	ederal tax ID #: 597904
31 (0.100) 5 (0.100) 5	ove company name) include city, s		
d. Facility or business license nam			
e. Facility Address — Location of Same	equipment (if same as for compa	nny, enter "Same"):	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa	Phone: gov 760-255-8225
General nature of business: Deep Space Communications	*		Company NAICS: 517919
Type of Organization Individual owner Federal agency	artnership Corporation	Utility Local	gency State agency
Application is for what type of pe	ermit:	For modification or change of	owner:
Section 2: Nature o Application is hereby made for the Portable Spray Gun			
New construction Modifi	ication	P012832 Curre	nt Permit Number
		Curre	nt Permit Number
New construction Modification Modification	Pata? No Yes (atta	Curre	nt Permit Number
Do you claim Confidentiality of D	Pata? No Yes (atta	ach explanation; specify which in	nt Permit Number
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri #3, Binks MACH 1 HVLP Spray Gun	ent information ief description of the equipment a	ach explanation; specify which in and/or process):	nt Permit Number formation provided is confidential)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks	ent information	ach explanation; specify which in and/or process): Serial numb	nt Permit Number formation provided is confidential) er;
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control equi	ent information ief description of the equipment a Model: ipment? Yes No (Note: mos	ach explanation; specify which in and/or process): Serial number APCE require a separate applic	nt Permit Number formation provided is confidential) er;
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control equi If yes: Manufacturer:	Pata? No Yes (attained attained attaine	ach explanation; specify which in and/or process): Serial number a separate application of the common serial #: CA	er;ertion)
Do you claim Confidentiality of D Section 3: Equipme Equipment description (give a bri #3, Binks MACH 1 HVLP Spray Gun Manufacturer: Binks Add-on air pollution control equi If yes: Manufacturer:	Model: Model: Sent from ground: fet fata	Serial number APCE require a separate application of the content o	er;ertion)

-For District use only-

Invoice number:

Permit number:

Section 4: Emission	s data	, \$1 × × 20	
Emission Factor Basis (attach any	source specified):		
✓ Manufacturer Source tes Other (please specify):			
Emissions data:			
Pollutant Pre-control max. emi-	ssions Units	Post control max. emissions	Units
NO _x			
NMHC			
co			
PM ₁₀			
SO _k	1.1		
	a list of all toyic air pollutants	and their emission rates if known.	
Toxic pollutarits Tiease merade	a list of all toxic all pollutarits	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption:		gal/hour SCF/hour MMBtu/hr	
Typical load:	or man force load 1.	13-4 Elastinas Eliminatolii	
Facility annual operation by quart	ers (percent):	Expected operating hours of equipme	ent
Uniform OR % Jan-Ma		4 Hrs/day 3 Days/	vk 24 Wk/yr
% Jul-Sep% Oct-D		Total annual hours 288	A.S.
Section 6: Receptor	information		
Distance (feet) and direction to the		,016 S residence 35,432 S busin	ess 50,160 s scho
Name of closest school (K-12)		Testacrica	56110
If the proposed equipment opera	tes within 1 000 feet of a scho	ol site and operation results in the emission	n of hazardous air
pollutants, a public notice will be			r of mazaraous an
as requested in a Section 7: Certificat	timely manner may result	rther information. Failure to provide add in delays in the processing of this permi	
I hereby certify that all informatio	n contained herein is true and	correct.	
	120 ruspalations		21 1
Donald Westbrook	Complex Manager	David Want	4/16/19
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-255-8423		Email: Donald.A.Westbro	ok@jpl.nasa.gov
	d application to Engine	ering@mdaqmd.ca.gov \$288 per permit for new or modifi	ed permit (or \$164
	ner) via check or credit		se kamurtar a ne r
Payment b			
	payable to the Mojave	Desert AOMD	
		ompleted application to:	
	sert AQMD	empleted application to	
14306 Park			
Victorville,		- 8	
Daymont b	y credit card:		
	at http://www.mdaqmd	C3 COV	
Click "Pay I		.ca.gov	
VIICK PAVI	EEA .		

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 MDAQMD 760.245.1661 • Fax 760.245.2022

Email: engineering@mdaqmd.ca.gov 19 APR 29 AM 9: 55 www.MDAQMD.ca.gov • @MDAQMD

General Application Form

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PLEASE TYPE OR PRINT

Application number:



 a. Permit to be issued to (comp NASA/Goldstone 	pany name):	b. Fed 52-159	leral tax ID #:
	above company name) include city,	77.171	1907
The state of the s	name (for equipment location):		
e. Facility Address — Location Same	of equipment (if same as for comp	any, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.g	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	Utility 🗖 Local ag	ency State agency
Section 2: Nature	of application		
Application is hereby made fo Portable Spray System			
Application is for what type of	f permit:	For modification or change of c	wner
		For modification of change of c	Wilei.
	dification		Permit Number
	dification		Permit Number
New construction Mo	odification	P012832 Curren	Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	odification	P012832 Current tach explanation; specify which info	Permit Number
New construction Mo Do you claim Confidentiality o	odification	P012832 Current tach explanation; specify which info	Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	odification	P012832 Current tach explanation; specify which info	Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	odification	P012832 Current tach explanation; specify which info	Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	odification	P012832 Current tach explanation; specify which info	Permit Number
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing	change of owner of Data?	P012832 Currentach explanation; specify which info	Permit Number rmation provided is confidential
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing Manufacturer; Binks	change of owner of Data?	P012832 Currentach explanation; specify which info	Permit Number rmation provided is confidential
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing Manufacturer: Binks Add-on air pollution control e	Change of owner of Data?	P012832 Current tach explanation; specify which information and/or process): Serial number of the post APCE require a separate application.	Permit Number rmation provided is confidential
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing Manufacturer: Binks Add-on air pollution control ellf yes: Manufacturer:	change of owner of Data?	P012832 Current tach explanation; specify which information and/or process): Serial number of the post APCE require a separate application.	Permit Number rmation provided is confidential
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing Manufacturer: Binks Add-on air pollution control e If yes: Manufacturer:	Change of owner of Data?	P012832 Current cach explanation; specify which information can and/or process): Serial number caches a separate application caches a separate	Permit Number rmation provided is confidential r r ion)
New construction Mo Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Binks MX1231 air assist & airless finishing Manufacturer: Binks Add-on air pollution control e If yes: Manufacturer:	Change of owner of Data?	P012832 Current tach explanation; specify which information cand/or process): Serial number of APCE require a separate application cand the serial #: CARE feet Exhaust stack diameter:	Permit Number rmation provided is confidential r r ion)

Invoice number:

Permit number:

Company/facility number:

Emission Factor Basis (attach any Manufacturer Source tes	st MDAQMD default		
Other (please specify):			
missions data:			
Pollutant Pre-control max. emi	issions Units	Post control max. emissions	Units
NO _x			
NMHC			
00			
PM ₁₀			
SO _x			
ioxic pollutants — Please include	a list of all toxic air pollutants	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption:		gal/hour SCF/hour MMBtu/hr	
Typical load:			
Facility annual operation by quart	ters (percent):	Expected operating hours of equipment	
✓ Uniform OR % Jan-M		4 Hrs/day 3 Days/wk	24 Wk/yr
% Jul-Sep% Oct-I		Total annual hours 288	
Section 6: Receptor	1.7		
	ates within 1,000 feet of a scho	ol site and operation results in the emission of	hazardous air
pollutants, a public notice will be	e required at the expense of th	е аррисані (Сназ 342301.6)	
		rther information. Failure to provide addition in delays in the processing of this permit a	
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	tion		эрисиноп.
	tion		эрисиноп.
hereby certify that all information	tion	D. vel West	4/16/19
hereby certify that all information	tion on contained herein is true and	correct.	4/16/19 Date signed
hereby certify that all information Donald Westbrook Name of responsible official	tion on contained herein is true and Complex Manager	D. vel West	4/16/19 Date signed
Donald Westbrook Name of responsible official	tion on contained herein is true and Complex Manager	D. rel Trout Signature of responsible official	4/16/19 Date signed
Donald Westbrook Name of responsible official Phone: 760-255-8423	complex Manager Official title	D. rel Trout Signature of responsible official	4/16/19 Date signed
Donald Westbrook Name of responsible official Phone: 760-255-8423	complex Manager Official title	Signature of responsible official Email: Donald.A. Westbrook@	4/16/19 Date signed
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete	Complex Manager Official title Instructions: ed application to Enginee	Signature of responsible official Email: Donald.A.Westbrook@	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the correspo	Complex Manager Official title Instructions: ed application to Engineer and on contained herein is true and on contained here	Signature of responsible official Email: Donald.A.Westbrook@	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion of the corresponsio	Complex Manager Official title Instructions: ed application to Engineer onding application fee of wher) via check or credit of	Signature of responsible official Email: Donald.A.Westbrook@	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion of the corresponsion of the corresponsible of the corresponsi	Complex Manager Official title Instructions: ed application to Engineer onding application fee of wher) via check or credit copy check:	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card.	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion of the complete of the corresponsion of	Complex Manager Official title Instructions: ed application to Engineer onding application fee of when via check or credit of by check: k payable to the Mojave	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion for change of own Payment by Make check Mail the check	Complex Manager Official title Instructions: ed application to Engineer onding application fee of every via check or credit of the payable to the Mojave neck with a copy of this copy of	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card.	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion of the complete of the corresponsion of the complete of the corresponsion of the corresponsion of the complete of the corresponsion of the corres	Complex Manager Official title Instructions: ed application to Engineer onding application fee of every via check or credit of the payable to the Mojave neck with a copy of this consert AQMD	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion of the complete of the corresponsion of the complete of the corresponsion of the corresponsion of the complete of the corresponsion of the corres	Complex Manager Official title Instructions: ed application to Engineer onding application fee of every via check or credit of the payable to the Mojave neck with a copy of this consert AQMD Avenue	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion for change of own Make check Mail the check Mojave De	Complex Manager Official title Instructions: ed application to Engineer onding application fee of every via check or credit of the payable to the Mojave neck with a copy of this consert AQMD Avenue	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov
Donald Westbrook Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the corresponsion for change of own Payment by Make check Mail the check Mojave December 14306 Park Victorville,	Complex Manager Official title Instructions: ed application to Enginee and application fee of every via check or credit of the polymer of the modern of the	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD	2/16/19 Date signed Dipl.nasa.gov
Name of responsible official Phone: 760-255-8423 Application submission i 1) Submit complete 2) Pay the correspo for change of ow Payment b Make check Mail the ch Mojave De 14306 Park Victorville, Payment b	Complex Manager Official title Instructions: ed application to Engineer onding application fee of every via check or credit of the payable to the Mojave neck with a copy of this consert AQMD Avenue	Signature of responsible official Email: Donald.A.Westbrook@ ering@mdaqmd.ca.gov \$288 per permit for new or modified card. Desert AQMD ompleted application to:	2/16/19 Date signed Dipl.nasa.gov

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MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICE MDAQMD

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310

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Application number:



 Permit to be issued to (comp NASA/Goldstone 	pany name):	1000	Federal tax ID #: 1597904
c. Mailing/billing address (for a 93 Goldstone Road, Fort Irwin, C	bove company name) include city, 9 A 92310	state and zip code:	
d. Facility or business license na	ame (for equipment location):		
e. Facility Address — Location of Same	of equipment (if same as for compa	ny, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name:	Title:	Email address:	Phone: a.gov 760-255-8225
Mark Solheid General nature of business: Deep Space Communications	Sr. EHS Analyst	Mark.J.Solheid@jpl.nas	Company NAICS: 517919
Type of Organization	Partnership	Utility Local	agency State agency
The state of the s	permit:	For modification or change	of owner:
Application is hereby made for Gasoline Dispensing Facility	the following equipment.		
O Deliver of the State of the S	permit:	For modification or change	of owner:
Application is for what type of		For modification or change of P012832	William Inc. of the Control of the C
Application is for what type of	dification	P012832 Cur	of owner: ent Permit Number information provided is confidential)
Application is for what type of New construction Mod Do you claim Confidentiality of Section 3: Equipm	dification Change of owner f Data?	P012832 Cur ach explanation; specify which	ent Permit Number
Application is for what type of New construction Moc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a	dification	P012832 Cur ach explanation; specify which	ent Permit Number
Application is for what type of New construction Moc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Non-Retail, 870, Diesel	dification Change of owner f Data? No Yes (attainent information brief description of the equipment Model:	P012832 Cur ach explanation; specify which and/or process):	ent Permit Number information provided is confidential
Application is for what type of New construction Moc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a INON-Retail, 87U, Diesel Manufacturer: Joor	dification Change of owner f Data? No Yes (attainent information brief description of the equipment	P012832 Cur ach explanation; specify which and/or process):	ent Permit Number information provided is confidential
Application is for what type of New construction Moc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Independent of the property of the pr	dification Change of owner f Data? No Yes (attainent information brief description of the equipment Model:	P012832 Cur ach explanation; specify which and/or process): Serial num at APCE require a separate appl	ent Permit Number information provided is confidential; ber:
Application is for what type of New construction Moc Do you claim Confidentiality of Section 3: Equipm Equipment description (give a Independent of the property of the pr	Model: Model: Se	P012832 Cur ach explanation; specify which and/or process): Serial num at APCE require a separate appl	ent Permit Number information provided is confidential ber: cation)

-For District use only-

Permit number:

Company/facility number:

Invoice number:

Emission Factor Basis (attach any	source specified):		
✓ Manufacturer Source tes	t MDAQMD default		
Emissions data:	1		
Pollutant Pre-control max. emi	ssions Units	Post control max. emissions	Units
NO _x			
NU A FILE			5
NMHC		1	
co			
PM ₁₀			
SO _x			
	a list of all touts als mallutants	and their emission rates if in our	
Toxic pollutants — Please include	a list of all toxic air poliutarits a	and their emission rates if known.	
Section 5: Operatio	n information		
Fuel Consumption:		gal/hour SCF/hour MMBtu/hr	
Typical load:			
Facility annual operation by quar		Expected operating hours of equipmen	t
✓ Uniform OR % Jan-M		4 Hrs/day 3 Days/wl	c Wk/yr
% Jul-Sep% Oct-I	Dec	Total annual hours 288	
Section 6: Receptor	information		
Distance (feet) and direction to the		16 S residence 36,432 S busine	ss 50,180 s scho
Name of closest school (K-12)			
If the proposed equipment opera	tes within 1,000 feet of a school	l site and operation results in the emission	of hazardous air
pollutants, a public notice will be	e required at the expense of the	applicant (CH&S §42301.6)	
as requested in a	timely manner may result i	ther information. Failure to provide addi n delays in the processing of this permit	
Section 7: Certificat	10.1.01		
I hereby certify that all information	on contained herein is true and	correct.	
Donald Westbrook	Complex Manager	* . 12 - 8	A. Last.
Name of responsible official	Official title	Signature of responsible official	Date signed
Phone: 760-255-8423	Official title	Email: Donald.A.Westbrook	
Holle, 700 200 0420		Entail, Solidar Evistates	(S)piniada.gov
2) Pay the correspo	ed application to Enginee	288 per permit for new or modified	d permit (or \$164
		ard.	
Mail the ch	y cneck: k payable to the Mojave I eck with a copy of this co sert AQMD		
14306 Park Victorville,	Avenue		
	y credit card: at http://www.mdaqmd.e		

3) If payment is made online via credit card, please email the receipt to Engineering@mdaqmd.ca.gov Should you have any additional questions, please, do not hesitate to contact the permitting division at 760-245-1661, or via email at **engineering@mdaqmd.ca.gov**

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR
14306 Park Avenue, Victorville, CA 92392-2310
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Email: engineering@mdaqmd.ca.gov
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Application number:



Company/facility number:

 a. Permit to be issued to (comp NASA/Goldstone 	. Federal tax ID #:		
- 3 4 3 4 3 5 5 10 7 7 1 1	bove company name) include city, s	DE 1011	
d. Facility or business license na			
e. Facility Address — Location of Same	of equipment (if same as for compa	any, enter "Same");	Equip. coordinates (lat/long):
f. Contact name: Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.go	Phone: 760-255-8225
General nature of business: Deep Space Communications			Company NAICS: 517919
Type of Organization Individual owner Federal agency	Partnership Corporation	Utility Local age	ncy State agency
Storage Tank			
Section 2: Nature Application is hereby made for			1
CAST THE PROPERTY OF THE PROPE			
Application is for what type of a	permit:	For modification or change of ov	/ner:
		For modification or change of ov P012832 Current	
Application is for what type of particular New construction Mode Do you claim Confidentiality of	lification		Permit Number
New construction Mod Do you claim Confidentiality of Section 3: Equipm	iffication Change of owner Data? No Yes (atta	P012832 Current ach explanation; specify which infor	Permit Number
Do you claim Confidentiality of Section 3: Equipm Equipment description (give a lateral description)	Iffication	P012832 Current ach explanation; specify which infor	Permit Number
New construction Mod Do you claim Confidentiality of Section 3: Equipm Equipment description (give a b Wasto Oil, Manufacturer: Joor	Indication Change of owner Data? No Yes (attained information prief description of the equipment Model:	P012832 Current ach explanation; specify which infor and/or process): Serial number:	Permit Number mation provided is confidential)
New construction Mod Do you claim Confidentiality of Section 3: Equipm Equipment description (give a bwaste Oil, Manufacturer: Joor Add-on air pollution control equipment of the pollution	Indication Change of owner Data? No Yes (attained in the equipment of the	P012832 Current ach explanation; specify which infor and/or process): Serial number: st APCE require a separate application	Permit Number mation provided is confidential)
New construction Mod Do you claim Confidentiality of Section 3: Equipm Equipment description (give a b Waste Oil, Manufacturer: Joor Add-on air pollution control equipment description control equipment description (give a b)	Indication Change of owner Data? No Yes (attained in the equipment of the	P012832 Current ach explanation; specify which infor and/or process): Serial number:	Permit Number mation provided is confidential)
New construction Mod Do you claim Confidentiality of Section 3: Equipm Equipment description (give a bwaste Oil, Manufacturer: Joor Add-on air pollution control equipment of the pollution	Change of owner Data? No Yes (attainent information Drief description of the equipment Model: Model: Model: Model: Model: Model: Se	P012832 Current ach explanation; specify which infor and/or process): Serial number: st APCE require a separate application	Permit Number mation provided is confidential)

-For District use only-

Invoice number:

Permit number:

Emission Factor Basis (attach any	source specified):			
✓ Manufacturer ☐ Source tes ☐ Other (please specify):		JUSEPA AP-42		
Emissions data:				
Pollutant Pre-control max. emis	ssions Units	Post co	ontrol max. emissions	Units
NO _x				
NMHC				
co				
PM ₁₀				
SO _x				
Tanda wallistawka - Dlasasa bashusia	a line of all south at a walling one	and shall and sales	a makes 16 for acces	
Toxic pollutants — Please include	a list of all toxic air pollutants	and their emission	rates ir known.	
Section 5: Operatio	n information			
Fuel Consumption:		gal/hour SC	F/hour MMBtu/hr	
Typical load:	at max fateu load	Identition [13c]	TAMORE MAINTENANTE	
Facility annual operation by quart	ers (percent):	Expected or	erating hours of equipment	
Uniform OR % Jan-Ma		4	Hrs/day 3 Days/wk	24 Wk/vr
% Jul-Sep% Oct-D			Total annual hours 288	
	Wast designed to the			
Section 6: Receptor	information			
Distance (feet) and direction to th		,016 S reside	ence 36,432 8 business	50,160 S scho
Name of closest school (K-12)				
If the proposed equipment operation pollutants, a public notice will be	tes within 1,000 feet of a scho			f hazardous air
	taff may contact you for fu timely manner may result			
I hereby certify that all informatio	n contained herein is true and	correct.		
b. maneway	43736046777	4	distance of	.1.1
Donald Westbrook	Complex Manager		Writ	4/16/19
Name of responsible official	Official title		responsible official	Daté signed
Phone; 760-255-8423		Email:	Donald.A.Westbrook	@jpl.nasa.gov
Application submission in 1) Submit complete	d application to Engine	\$288 per perm	d.ca.gov nit for new or modified	permit (or \$164
2) Pay the correspond for change of ow Payment b Make check Mail the che Mojave De	ner) via check or credit or check: k payable to the Mojave eck with a copy of this coet AQMD	Desert AQMD		
2) Pay the correspond for change of ow Payment b Make check Mail the che Mojave De 14306 Park	ner) via check or credit or check: c payable to the Mojave eck with a copy of this	Desert AQMD		
2) Pay the correspond for change of ow Payment b Make check Mail the che Mojave De	ner) via check or credit or check: c payable to the Mojave eck with a copy of this	Desert AQMD		
2) Pay the correspondence for change of ow Payment be Make check Mail the check Mojave De 14306 Park Victorville, 0	ner) via check or credit or check: c payable to the Mojave eck with a copy of this	Desert AQMD		

Pay online at http://www.mdaqmd.ca.gov Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT CEIVED

BRAD POIRIEZ, EXECUTIVE DIRECTOR 14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 • Fax 760.245.2022 Email: engineering@mdaqmd.ca.gov www.MDAQMD.ca.gov • @MDAQMD

MDAQMD 19 APR 29 AM 9: 55

General Application Form

Remit \$288.00 with this document (\$164.00 for change of owner)



Company/facility number:

 Permit to be issued to (company nar NASA/Goldstone 	deral tax ID #: 97904		
 Mailing/billing address (for above co 93 Goldstone Road, Fort Irwin, CA 92310 		ate and zip code:	
d. Facility or business license name (for	r equipment location):		
e. Facility Address — Location of equip Same	oment (if same as for compan	y, enter "Same"):	Equip. coordinates (lat/long)
f. Contact name: ** Mark Solheid	Title: Sr. EHS Analyst	Email address: Mark.J.Solheid@jpl.nasa.	Phone: 760-255-8225
Control of the Charles of			
General nature of business: Deep Space Communications			Company NAICS: 517919
A Committee of the Comm	ship 🗖 Corporation	Utility Local a	517919
Deep Space Communications Type of Organization Individual owner Partner		Utility Local a	517919
Deep Space Communications Type of Organization Individual owner Partner Federal agency	pplication	Utility Local a	517919
Deep Space Communications Type of Organization Individual owner Partner Federal agency Section 2: Nature of a Application is hereby made for the foll Diesel Fuel Storage Tank	pplication	☐ Utility ☐ Local a	sency State agency
Deep Space Communications Type of Organization Individual owner Partner Federal agency Section 2: Nature of a Application is hereby made for the foll	pplication owing equipment:	For modification or change of	sency State agency

Equipment description (give a brief description of the equipment and/or process): Manufacturer: Joor Model: Serial number: Add-on air pollution control equipment? Yes No (Note: most APCE require a separate application) If yes: Manufacturer: Model: Serial #: CARB EO#: Type (specify): Stack data Exhaust stack height from ground: 15 feet 4" feet Exhaust stack diameter: Stack is: horizontal vertical open weather cap °F Maximum exhaust rate (CFM): Vent data: Exhaust temp.

Page 1 of 2

Invoice number:

Application number:

-For District use only-

Permit number:

DAQMD default Units Units	Post control max. emissions Post control max. emissions and their emission rates if known.	Units	
		Units	
		Units	
all toxic air pollutants	and their emission rates if known.		
all toxic air pollutants	and their emission rates if known.		
all toxic air pollutants	and their emission rates if known.		
all toxic air pollutants	and their emission rates if known.		
all toxic air pollutants	and their emission rates if known.		
all toxic air pollutants	and their emission rates if known		
umation			
rmation t max rated load	gal/hour SCE/hour MMRtu/hr		
They race load	Bartier Florition Fluidoutin		
ent):	Expected operating hours of equipment		
	4 Hrs/day 3 Days/wk 24 Wk/yr		
130,100	Total annual hours 288		
mation			
	016 S residence 36,432 S business	50,160 S scho	
	ol site and operation results in the emission of	hazardous air	
ed herein is true and	correct.		
	×	11.	
		4/16/19 Date signed	
iciai titie			
	Email. Bonaid.7. Vestoroone	gjpi.nasa.gov	
	ent): _ % Apr-Jun 'mation ty line of closest:	Expected operating hours of equipment 4	

Pay online at http://www.mdaqmd.ca.gov

Click "Pay Fees"

Please note: a surcharge applies for all credit card payments.

Appendix B Public Notice

Noticing Methods include the following, per District Rule 1207 (A)(1)(a) and District Rule 1302(D)(2) and (3):

- Published in newspapers of general circulation *Riverside Press Enterprise* (Riverside County) and the *Daily Press* (San Bernardino County).
- Mailed and/or emailed to MDAQMD contact list of persons requesting notice of actions (see the contact list following the Public Notice in this Appendix.
- Posted on the MDAQMD Website at the following link: http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry

NOTICE OF VOLUNTARY EMISSION LIMIT TO SURRENDER TITLE V APPLICABILITY

NOTICE IS HEREBY GIVEN THAT National Aeronautics & Space Administration – NASA Goldstone Deep Space Communication Complex, located at 93 Goldstone Road in Fort Irwin, CA 92310 has submitted an application to surrender/cancel their Federal Operating Permit (13300611) by electing to voluntarily



limit its facility emissions to the extent that the facility is no longer subject to the provisions of District Regulation XII – Federal Operating Permits, pursuant to the provisions of District Rule 221, section B. This permitting action proposes to cap the facility limit for NOx at 80 tons per year which is 20 percent below the Major Facility threshold for a facility located outside the Federal Ozone Nonattainment Area. This proposed limit will effectively designate Goldstone as a synthetic minor source and will alleviate this facility from its Federal Operating Permit requirements. This proposed action will result in a net decrease in potential regulated air pollutants.

REQUEST FOR COMMENTS: Interested persons are invited to submit written comments and/or other documents regarding the terms and conditions of the proposed modification to MCC's Federal Operating Permit. If you submit written comments, you may also request a public hearing on the proposed renewal of the Federal Operating Permit. To be considered, comments, documents and requests for public hearing must be submitted no later than 5:00 P.M. on July 11, 2019, to the MDAQMD, at the address listed below.

PETITION FOR REVIEW: Federal Operating Permits are also subject to review and approval by USEPA. If USEPA has not objected to a proposed permit, and the MDAQMD has not addressed a public comment in a satisfactory manner, the public may petition USEPA, Region IX, Operation Permits Section at 75 Hawthorne Street, San Francisco, CA 94105 within 60 days after the end of the USEPA review period for USEPA to reconsider its decision not to object to the permit.

AVAILABILITY OF DOCUMENTS: The proposed Federal Operating Permit, as well as the application and other supporting documentation are available for review at the MDAQMD offices, 14306 Park Avenue, Victorville, CA 92392. In addition, these documents are available on the MDAQMD website and can be viewed at following link:

 $\underline{http://www.mdaqmd.ca.gov/permitting/public-notices-advisories/public-notices-permitting-regulated-industry}$

Please contact Sheri Haggard, Supervising Air Quality Engineer at the address above, or (760) 245-1661, extension 1864, or at shaggard@mdaqmd.ca.gov with additional questions pertaining to this action and/or corresponding documents. *Traducción en español esta disponible por solicitud. Por favor llame: (760) 245-1661 x1864*

MOJAVE DESERT AIR QUALITY MANAGEMENT DISTRICT

BRAD POIRIEZ, EXECUTIVE DIRECTOR

14306 Park Avenue, Victorville, CA 92392-2310 • 760.245.1661 • Fax 760.245.2022 • www.MDAQMD.ca.gov • @MDAQMD

City of City of City of County of City of City of City of **ADELANTO** APPLE VALLEY BARSTOW BLYTHE HESPERIA NEEDLES RIVERSIDE SAN BERNARDINO TWENTYNINE PALMS VICTORVILLE YUCCA VALLEY

Mr. Larry Trowsdale

951 E Skylark Ave Ridgecrest, CA 93555

Chief, Planning Division

California Air Resources Board P.O. Box 2815 Sacramento, CA 95812

Mr. Mike Sword

Planning Div Mgr, Clark Co Dept of Air Q and 4701 Russell Road, Suite 200 Las Vegas. NV 89118

Environmental Manager

Duffield Marine, Inc. 17260 Muskrat Avenue Adelanto, CA 92301

Mr. Jon Boyer

High Desert Power Project LLC 19000 Perimeter Rd Victorville. CA 92394

Ms. Carol Kaufman

Metropolitan Water District 700 N Alameda Street, 8th Floor, Rm 106 Los Angeles, CA 90012

Mr. John F. Espinoza

HES Manager, Molycorp Minerals, LLC HC-1 Box 224 Mountain Pass, CA 92366

Chief, Bureau of Air Quality

NDCNR, Env Prot Div (Air) 901 South Stewart St, Suite 4001 Carson City, NV 89701-5249

Mr. Steve Smith

SB County Transportation Authority 1170 W. Third Street, Second Floor San Bernardino, CA 92410

Mr. Michael Eichenlaub

Specialty Minerals Inc.
P.O. Box 558
Lucerne Valley, CA 92356-0558

Ms. Janet Laurain

Adams Broadwell Joseph & Cardozo 601 Gateway Blvd., St. 1000 South San Francisco. CA 94080-7037

Ms. Desirea Haggard

Environmental Manager, CalPortland-Oro 2025 E Financial Way Glendale. CA 91741

Ms. Brenda Abernathy

Air Program Manager, N45NCW, Naval Air 429 E Bowen Rd, Stop 4014 China Lake. CA 93555-6108

Mr. Randy Lack

Chief Marketing Officer, Element Markets, 3555 Timmons Lane, Suite 900 Houston, TX 77027

Mr. Glen King

Environmental Manager, Luz Solar Partners 43880 Harper Lake Road Harper Lake, CA 92347

Mr. David Rib

Environmental Manager, Mitsubishi Cement 5808 State Highway 18 Lucerne Valley, CA 92356-9691

Mr. Mark Solheid

Senior EHS Analyst, NASA/Goldstone DSCC 93 Goldstone Road Fort Irwin, CA 92310

Mr. Mike Peay

EH&S Manager, Northwest Pipe Co. 12351 Rancho Road Adelanto, CA 92301

Mr. Anoop Sukumaran

Environmental Engineer, Searles Valley P.O. Box 367 Trona, CA 93592-0367

Director, Air Division (Attn: AIR-3)

United States EPA, Region IX 75 Hawthorne Street San Francisco, CA 94105

Mr. Ramon Campos

Environmental Compliance Manager, Blythe P.O. Box 1210
Blythe. CA 92226

City Manager

City of Barstow 220 East Mountain View, Suite A Barstow, CA 92311

Mr. Kent T. Christensen

HS&E Manager, Ducommun Aerostructures 4001 El Mirage Road Adelanto, CA 92301

Ms. Christine Grandstaff

Evolution Markets 27801 Golden Ridge Lane San Juan Capistrano, CA 92675

Mr. Mike Plessie

HQBN B CO, NREA MCAGCC Box 78110 Twentynine Palms, CA 92278-8110

Environmental Manager

Mobile Pipe Lining & Coating, Inc 12766 Violet Road Adelanto, CA 92301

Mr. Don Shepherd

National Park Service, Air Resources Div 12795 W Alameda Pkwy Lakewood, CO 80228

Ms. Diana Furman

Senior Gas Engineer, PG&E (Attn: Air P.O. Box 7640 San Francisco, CA 94120

Ms. Karin Fickerson

Air Quality Team Lead, SoCalGas 1650 Mountain View Avenue Oxnard, CA 93030

Ms. Anne McQueen

Senior Engineer, Yorke Engineering, LLC 31726 Rancho Viejo Road, Suite 218 San Juan Capistrano, CA 92675

Air Program Manager

Environmental Division, USMC MCLB Box 110170 Bldg 196 Barstow, CA 92311

Bureau of Indian Affairs 1451 Research Park Drive, Suite 100 Riverside, CA 92507

Ms. Sheri Haggard

Supervising Permit Engineer, MDAQMD 14306 Park Ave Victorville, CA 92392

Ms. Angela Harrell

Elementis Specialties 31763 Mountain View Road Newberry Springs, CA 92365

Mr. Luis Pacheco

EH&S Manager, OMYA (California), Inc. 7225 Crystal Creek Rd Lucerne Valley, CA 92356

Mr. Anthony Fang

Metropolitan Water District 700 N Alameda Street, 8th Floor Rm 106 Los Angeles, CA 90012

Andrew Salas

Chairman, Gabriel Band of Mission Indians -PO Box 393 Covina, CA 91723

Mr. Sam Oktay

Permit Engineer, MDAQMD 14306 Park Ave Victorville, CA 92392

Ms. Karen Johnson

Environmental Manager, California Portland 2025 E. Financial Way Glendora, CA 91741

Mr. Joseph Hower

Principal, Air Sciences, Ramboll Environ 350 S Grand Ave, Ste 2800 Los Angeles, CA 90017

Ms. Lisa Beckham

United States EPA, Region IX 75 Hawthorne Street San Francisco, CA 94105

Chief, San Gabriel Band of Mission Indians PO Box 693 San Gabriel, CA 91778

Mr. Steve Cummings

Senior Air Quality Tech Specialist, Southern P.O. Box 800 Rosemead. CA 91770

Ms. Jenna Latt

CARB/Office of Ombudsman 9480 Telstar Avenue, Annex 1 El Monte, CA 91731

Mr. Guy Smith

Permit Engineer, Mojave Desert AQMD 14306 Park Ave Victorville, CA 92392

Appendix C Emissions Inventory Data – Emission Year 2018

File name: C:\Users\sherih\Desktop\NASA GDSCC - EMS SUM - 2018.rtf

HARP Facility Emission Summary

HARP EIM Version: 2.1.1

Project Path: C:\Users\sherih\Desktop\CEI

Project Database: C:\Users\sherih\Desktop\CEI\2018SH.mdb

CEIDARS Utility Database: C:\HARP2\Tables\CEIDARSTables022016.mdb

Facility List: N/A Pollutant List: N/A

Sorting Order: FACID, CO, AB, DIS, YEAR, TOXAPPEN, POLABBREV

Date Created: 5/31/2019 11:11:46 AM

Operator: SMH

(Note: Emissions in LBS/YR for toxics, TONS/YR for criteria pollutants, CURRIES/YR for radio nuclides. * User defined pollutants are marked by an asterisk with the pollutant ID.)

FACILITY	NAME			FSI	С						
	ADDRESS				_						
	CITY	ZIP	CO	AB	DIS	CATEGORY	HAP	POLLUTANT	POLLUTANT ID	EMISSIONS	YEAR
13300611	GOLDSTONE DEEP SPACE 93 GOLDSTONE RD	COMMUN	NIC	489	9						
	FT. IRWIN, CA	92310	36	MD	MOJ	A-I A-I A-I A-I A-I		Copper Cyclohexane DieselExhPM Propylene Zinc	7440508 110827 9901 115071 7440666	1.009	2018 2018 2018
						A-I A-I	Y Y	1,1,2TriClEthan 1,1-DiClEthane		0.126	2018
						A-I A-I	Y Y	1,2-DiClPropane 1,3-Butadiene	78875 106990	0.106 6.107	2018 2018
						A-I A-I A-I	Y	1,3-DiClPropene 2,2,4TriMePentn Acetaldehyde	542756 540841 75070	0.104 1.795 36.215	2018
						A-I A-I	Y Y	Acrolein Anthracene	75070 107028 120127	20.389	2018
						A-I A-I	Y Y	Arsenic Benzene	7440382 71432	0.125 7.727	2018
						A-I A-I	Y Y	Biphenyl Cadmium	92524 7440439	0.354 2.402E-02	2018
						A-I A-I	Y Y	CC14 Chlorobenzn	56235 108907	0.145 0.113	
						A-I A-I	Y Y	Chloroform Chromium	67663 7440473		2018
						A-I A-I A-I	Y Y Y	Cr(VI) EDB Ethyl Benzene	18540299 106934 100414	3.202E-03 0.175 0.376	2018
						A-I A-I	Y Y	Ethyl Chloride Formaldehyde	75003 50000	6.124E-03 117.107	2018
						A-I A-I	Y Y	HCl Hexane	7647010 110543	2.978 2.979	2018
						A-I A-I A-I	Y Y Y	Lead Manganese Mercury	7439921 7439965 7439976	0.133 4.963E-02 3.683E-02	2018 2018
						A-I	Y	Methanol	67561	12.118	2018

A-I	Y	Methylene Chlor	75092	0.272	2018
A-I	Y	Naphthalene	91203	0.659	2018
A-I	Y	Nickel	7440020	6.244E-02	2018
A-I	Y	PAHs-w/	1150	1.380	2018
A-I	Y	Perc	127184	8.122E-03	2018
A-I	Y	Perylene	198550	1.628E-05	2018
A-I	Y	Phenanthrene	85018	1.420	2018
A-I	Y	Pyrene	129000	0.235	2018
A-I	Y	Selenium	7782492	0.157	2018
A-I	Y	Styrene	100425	0.112	2018
A-I	Y	TetraClEthane	79345	0.171	2018
A-I	Y	Toluene	108883	1.681	2018
A-I	Y	Xylenes	1330207	0.679	2018
Crit		CO	42101	1.262	2018
Crit		NOX	42603	5.104	2018
Crit		PM	11101	0.100	2018
Crit		PM10	85101	9.036E-02	2018
Crit		PM10-NON	85105	7.909E-02	2018
Crit		PM2.5	88101	8.050E-02	2018
Crit		PM25-NON	88105	7.438E-02	2018
Crit		PM-NON	11105	8.909E-02	2018
Crit		ROG	16113	3.050E-04	2018
Crit		SOX	42401	3.813E-02	2018
Crit		TOG	43101	0.356	2018
Crit		VOC	43104	0.109	2018
G		CO2	124389	3.360E+05	2018

File name: C:\Users\sherih\Desktop\NASA GDSCC - PS - 2018.rtf

HARP Facility Prioritization Report

HARP EIM Version: 2.1.1

Reporting Year: 2018

Project Path: C:\Users\sherih\Desktop\CEI

Project Database: C:\Users\sherih\Desktop\CEI\2018SH.mdb

CEIDARS Utility Database: C:\HARP2\Tables\CEIDARSTables022016.mdb

HARP Health Talbe: HEALTH201808 Sorting Order: DIS, AB, CO, TS, FACID Date Created: 5/31/2019 1:47:51 PM

Operator: SMH

POLLUTANT HEALTH VALUES FROM HARP HEALTH DATABASE:

POLLUTANT ID	POLLUTANT	CANCERURF(INH) (ug/m^3)^-1	ACUTEREL ug/m^3	CHRONICREL(INH) ug/m^3
79005 79005 75343	1,1,2TriClEthan 1,1,2TriClEthan 1,1-DiClEthane	1.60E-05	N/A N/A N/A	N/A N/A N/A
75343		1.60E-06	N/A	N/A
78875	1,2-DiClPropane		N/A	N/A
78875	1,2-DiClPropane		N/A	N/A
106990	1,3-Butadiene	1.70E-04	6.60E+02	2.00E+00
106990	1,3-Butadiene	1.70E-04	6.60E+02	2.00E+00
106990	1,3-Butadiene	1.70E-04	6.60E+02	2.00E+00
542756	1,3-DiClPropene		N/A	N/A
542756	1,3-DiClPropene		N/A	N/A
540841	2,2,4TriMePentn		N/A	N/A
540841	2,2,4TriMePentn		N/A	N/A
75070	Acetaldehyde	2.70E-06	4.70E+02	1.40E+02
75070	Acetaldehyde	2.70E-06	4.70E+02	1.40E+02
75070	Acetaldehyde	2.70E-06	4.70E+02	1.40E+02
107028	Acrolein	N/A	2.50E+00	3.50E-01
107028	Acrolein	N/A	2.50E+00	3.50E-01
107028	Acrolein	N/A	2.50E+00	3.50E-01
120127	Anthracene	N/A	N/A	N/A
120127	Anthracene	N/A	N/A	N/A
7440382	Arsenic	3.30E-03	2.00E-01	1.50E-02
7440382	Arsenic	3.30E-03	2.00E-01	1.50E-02
71432	Benzene	2.90E-05	2.70E+01	3.00E+00
71432	Benzene	2.90E-05	2.70E+01	3.00E+00
71432	Benzene	2.90E-05	2.70E+01	3.00E+00
92524	Biphenyl	N/A	N/A	N/A
7440439	Cadmium	4.20E-03	N/A	2.00E-02
7440439	Cadmium	4.20E-03	N/A	2.00E-02
56235	CC14	4.20E-05	1.90E+03	4.00E+01
56235	CC14	4.20E-05	1.90E+03	4.00E+01
108907	Chlorobenzn	N/A	N/A	1.00E+03
108907	Chlorobenzn	N/A	N/A	1.00E+03
67663	Chloroform	5.30E-06	1.50E+02	3.00E+02

67663	Chloroform	5.30E-06	1.50E+02	3.00E+02
7440473	Chromium	N/A	N/A	N/A
7440473	Chromium	N/A	N/A	N/A
42101	CO	N/A	N/A	N/A
42101	CO	N/A	N/A	N/A
42101	CO	N/A	N/A	N/A
42101	CO	N/A	N/A	N/A
124389	CO2	N/A	N/A	N/A
7440508	Copper	N/A	1.00E+02	N/A
7440508	Copper	N/A	1.00E+02	N/A
18540299	Cr(VI)	1.50E-01	N/A	2.00E-01
18540299	Cr(VI)	1.50E-01	N/A	2.00E-01
110827	Cyclohexane	N/A	N/A	N/A
9901	DieselExhPM	3.00E-04	N/A	5.00E+00
9901	DieselExhPM	3.00E-04	N/A	5.00E+00
106934	EDB	7.10E-05	N/A	8.00E-01
100414	Ethyl Benzene	2.50E-06	N/A	2.00E+03
100414	Ethyl Benzene	2.50E-06	N/A	2.00E+03
100414	Ethyl Benzene	2.50E-06	N/A	2.00E+03
75003	Ethyl Chloride	N/A	N/A	3.00E+04
75003	Ethyl Chloride	N/A	N/A	3.00E+04
50000	Formaldehyde	6.00E-06	5.50E+01	9.00E+00
50000	Formaldehyde	6.00E-06	5.50E+01	9.00E+00
50000	Formaldehyde	6.00E-06	5.50E+01	9.00E+00
7647010	HCl	N/A	2.10E+03	9.00E+00
110543	Hexane	N/A	N/A	7.00E+03
110543	Hexane	N/A	N/A	7.00E+03
7439921	Lead	1.20E-05	N/A	N/A
7439921	Lead	1.20E-05	N/A	N/A
7439965	Manganese	N/A	N/A	9.00E-02
7439965	Manganese	N/A	N/A	9.00E-02
7439976	Mercury	N/A	6.00E-01	3.00E-02
7439976 67561	Mercury	N/A N/A	6.00E-01	3.00E-02
75092	Methanol	,	2.80E+04	4.00E+03
91203	Methylene Chlor	3.40E-05	1.40E+04 N/A	4.00E+02 9.00E+00
91203	Naphthalene Naphthalene	3.40E-05 3.40E-05	N/A N/A	9.00E+00 9.00E+00
91203	Naphthalene	3.40E-05	N/A N/A	9.00E+00
91203	Naphthalene	3.40E-05	N/A	9.00E+00
7440020	Nickel	2.60E-04	2.00E-01	1.40E-02
7440020	Nickel	2.60E-04	2.00E-01	1.40E-02
42603	NOX	N/A	N/A	N/A
42603	NOX	N/A	N/A	N/A
42603	NOX	N/A	N/A	N/A
42603	NOX	N/A	N/A	N/A
42603	NOX	N/A	N/A	N/A
42603	NOX	N/A	N/A	N/A
1150	PAHs-w/	N/A	N/A	N/A
1150	PAHs-w/	N/A	N/A	N/A
1150	PAHs-w/	N/A	N/A	N/A
127184	Perc	6.10E-06	2.00E+04	3.50E+01
127184	Perc	6.10E-06	2.00E+04	3.50E+01
198550	Perylene	N/A	N/A	N/A
198550	Perylene	N/A	N/A	N/A
85018	Phenanthrene	N/A	N/A	N/A
85018	Phenanthrene	N/A	N/A	N/A
11101	PM	N/A	N/A	N/A
11101	PM	N/A	N/A	N/A
85101	PM10	N/A	N/A	N/A

85101	PM10	N/A	N/A	N/A
88101	PM25	N/A	N/A	N/A
115071	Propylene	N/A	N/A	3.00E+03
115071	Propylene	N/A	N/A	3.00E+03
129000	Pyrene	N/A	N/A	N/A
129000	Pyrene	N/A	N/A	N/A
16113	ROG	N/A	N/A	N/A
7782492	Selenium	N/A	N/A	2.00E+01
42401	SOX	N/A	N/A	N/A
42401	SOX	N/A	N/A	N/A
42401	SOX	N/A	N/A	N/A
100425	Styrene	N/A	2.10E+04	9.00E+02
100425	Styrene	N/A	2.10E+04	9.00E+02
79345	TetraClEthane	5.80E-05	N/A	N/A
79345	TetraClEthane	5.80E-05	N/A	N/A
43101	TOG	N/A	N/A	N/A
43101	TOG	N/A	N/A	N/A
43101	TOG	N/A	N/A	N/A
108883	Toluene	N/A	3.70E+04	3.00E+02
108883	Toluene	N/A	3.70E+04	3.00E+02
43104	VOC	N/A	N/A	N/A
43104	VOC	N/A	N/A	N/A
43104	VOC	N/A	N/A	N/A
1330207	Xylenes	N/A	2.20E+04	7.00E+02
1330207	Xylenes	N/A	2.20E+04	7.00E+02
7440666	Zinc	N/A	N/A	N/A
7440666	Zinc	N/A	N/A	N/A
*******	******	******	******	***********************

PRIORITIZATION SCORE SUMMARY:

Facility Name Proximity Method Optional Factors

Emission and Potency Procedure Dispersion Adjustment Procedure Highest FACID CO AB DIS Cancer Acute Chronic NonCancer Cancer Acute Chronic NonCancer Score

GOLDSTONE DEEP SPACE COMMUNICATIONS COMPLEX Proximity Method:

Annual Operating Hours 8760

Priority Multiplier 0.128
13300611 36 MD MOJ 4.93E-02 1.32E-02 2.74E-04 1.34E-02 4.91E-02 1.32E-02 2.74E-04 1.34E-02 4.93E-02

Appendix D Proposed Permits



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B010789

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PROPANE IC ENGINE, PORTABLE GENERATOR consisting of: Year of Manufacture 2009, USEPA Family Name BPSIB5.702ED, stack height 2', stack diameter 2", exhaust flow rate of 735 cubic feet per minute at 1250 degrees Fahrenheit.

One General Motors, Propane fired internal combustion engine Model No. 8.1 and Serial No. 21400S09, Four-Stroke Rich Burn, Turbo Charged, producing 162 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. 2270879, rated at 100 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.0895	gm/bhp-hr
NOx	0.246	gm/bhp-hr
PM10	0.0149	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.0224	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 1 (C) Rating: 162 bhp SIC: 9661 SCC: 20301001 Location/Coordinates: +35.30046, -116.80306

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: B010789 Issue Date: DRAFT

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 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. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 and location of each use; and,
- b. Duration of each use (in hours) and the type of use (regular prime use, emergency, testing & maintenance, etc.); and,
- c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours. [District Rule 1203 (D)(1)(d)(ii)]
- 7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Page 2 of 2 Permit: B010789 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B011623

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PROPANE IC ENGINE, 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 1250 degrees Fahrenheit.

One General Motors, Propane fired internal combustion engine Model No. 8.1 and Serial No. 23472, Four-Stroke Rich Burn, Turbo Charged, producing 162 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 100 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.0895	gm/bhp-hr
NOx	0.246	gm/bhp-hr
PM10	0.0149	gm/bhp-hr
SOx	0.002	gm/bhp-hr
VOC	0.0224	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 1 (b) Rating: 162 bhp SIC: 9661 SCC: 20201001 Location/Coordinates: +35.30046, -116.80306

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: B011623 Issue Date: DRAFT

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 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. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 and location of each use; and,
- b. Duration of each use (in hours) and the type of use (regular prime use, emergency, testing & maintenance, etc.); and,
- c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours. [Rule 1203(D)(1)(d)(ii)]
- 7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Page 2 of 2 Permit: B011623 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B012692

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, PORTABLE, WELDER consisting of: Year of Manufacture 2015, Tier 4, USEPA Family Name FDZXL02.9020, stack height 5' and a stack diameter of 2".

One Deutz, Diesel fired internal combustion engine Model No. TD2.9L4 and Serial No. 11842669, Direct Injected, Turbo Charged, Electronic Control Module, producing 72 bhp with 3 cylinders at 2200 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Miller Welder Model No. 907062-07-01 and Serial No. LC432006, rated at 600 ampere.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.022	gm/bhp-hr
NOx	2.76	gm/bhp-hr
PM10	0.015	gm/bhp-hr
PM2.5	0.015	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.007	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 1 (b)

Rating: 72 bhp

SIC: 9661

SCC: 20200102

Location/Coordinates: +35.42450, -116.89032

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 $_{\mathrm{By:}}\mathbf{COPY}$

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: B012692 Issue Date: DRAFT

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 equipment must be moved within this facility or moved to another facility annually. The amount of time that the equipment is kept in the storage location does not count towards the residence requirement so long as the equipment is not set up in an operational configuration.

[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.

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

5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]

- 6. The owner/operator shall maintain an operations log for this unit, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
- b. Reason for use (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). [District Rule 1302(C)(2)(a)]
- 7. This portable, diesel-fired engine is certified to Tier 4 final emission standards and is therefore exempted from the requirements of section 93116.4 of Title 17 CCR 93116. To establish this exemption the Responsible Official (owner/operator) must provide the Certification Statement to the District and CARB when the engine initially satisfies the requirements of section 93116.4(a). This certification statement must list the following for each engine:
- a. The District permit number; and,
- b. The serial number.

Compliance Statements should be sent to the District via mail or electronically to reporting@mdaqmd.ca.gov

Compliance Statements should be mailed to CARB at: ARB/PERP P.O. Box 2038 Sacramento, CA 95812 [Title 17 CCR 93116.4(a)and(e)]

8. This unit is subject to the requirements of Title 17 CCR 93116, the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater.

> Permit: B012692 Issue Date: DRAFT Page 2 of 3

9. A facility wide Comprehensive Emission Inventory Report (CEIR) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



Page 3 of 3 Permit: B012692 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B012693

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, PORTABLE, WELDER consisting of: Year of Manufacture 2015, Tier 4, USEPA Family Name FDZXL02.9020, stack height 6.3' and a stack diameter of 1.75".

One Deutz, Diesel fired internal combustion engine Model No. TD2.9L4 and Serial No. 11848053, Direct Injected, Turbo Charged, Electronic Control Module, producing 72 bhp with 3 cylinders at 2200 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Miller Welder Model No. 907062-07-01 and Serial No. LF244855, rated at 600 ampere.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.022	gm/bhp-hr
NOx	2.76	gm/bhp-hr
PM10	0.015	gm/bhp-hr
PM2.5	0.015	gm/bhp-hr
SOx	0.005	gm/bhp-hr
VOC	0.007	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 1 (b)

Rating: 72 bhp

SIC: 9661

SCC: 20200102

Location/Coordinates: +35.42450, -116.89032

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: B012693 Issue Date: DRAFT

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 equipment must be moved within this facility or moved to another facility annually. The amount of time that the equipment is kept in the storage location does not count towards the residence requirement so long as the equipment is not set up in an operational configuration.

[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.

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

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. The owner/operator shall maintain an operations log for this unit, current and on-site (or at a central location), for a minimum of five (5) years, and this log shall be provided to District, State and Federal personnel upon request. The log shall include, at a minimum, the information specified below:
- a. Date of each use and duration of each use (in hours);
- b. Reason for use (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)]
- 7. This portable, diesel-fired engine is certified to Tier 4 final emission standards and is therefore exempted from the requirements of section 93116.4 of Title 17 CCR 93116. To establish this exemption the Responsible Official (owner/operator) must provide the Certification Statement to the District and CARB when the engine initially satisfies the requirements of section 93116.4(a). This certification statement must list the following for each engine:
- a. The District permit number; and,
- b. The serial number.

Compliance Statements should be sent to the District via mail or electronically to reporting@mdaqmd.ca.gov

Compliance Statements should be mailed to CARB at: ARB/PERP
P.O. Box 2038
Sacramento, CA 95812
[Title 17 CCR 93116.4(a)and(e)]

8. This unit is subject to the requirements of Title 17 CCR 93116, the Airborne Toxic Control Measure for Diesel Particulate Matter from Portable Engines Rated at 50 Horsepower and Greater.

Page 2 of 3 Permit: B012693 Issue Date: DRAFT

9. A facility wide Comprehensive Emission Inventory Report (CEIR) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



Page 3 of 3 Permit: B012693 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

B012695

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PROPANE IC ENGINE, PORTABLE GENERATOR consisting of: Year of Manufacture 2016, USEPA Family Name GPSIB8.80NGP-012, stack height 6', and stack diameter 0.25".

One Power Solution International, Inc., Propane fired internal combustion engine Model No. Industrial 8.8L and Serial No. SGM32HG87, Four-Stroke Rich Burn, producing 185 bhp with 8 cylinders at 1800 rpm while consuming a maximum of 0.02 lbs/hr. This equipment powers a Kohler Generator Model No. 125REZGT and Serial No. GM99497-GA1, rated at 185 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	0.176	gm/bhp-hr
NOx	0.032	gm/bhp-hr
PM10	0.010	lbs/MMBtu
PM2.5	0.010	lbs/MMBtu
SOx	0.001	lbs/MMBtu
VOC	0.004	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 1 (b)

Rating: 185 bhp

SIC: 9661

SCC: 20201001

Location/Coordinates: +35.30046, -116.80306

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 $_{\mathrm{By:}}\mathbf{COPY}$

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: B012695 Issue Date: DRAFT

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 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. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 and location of each use: and.
- b. Duration of each use (in hours) and the type of use (regular prime use, emergency, testing & maintenance, etc.); and,
- c. Calendar year operation in terms of fuel consumption (in gallons or equivalent) and total hours. [Rule 1203(D)(1)(d)(ii)]
- 7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Page 2 of 2 Permit: B012695 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000272

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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. 66B1555, After Cooled, Direct Injected, Turbo Charged, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Ideal Electric Generator Model No. SAB and Serial No. 260370, rated at 600 kW(e).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89062

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

Page 2 of 3 Permit: E000272 Issue Date: DRAFT

[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E000273

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Ideal Electric Generator Model No. SAB and Serial No. 262701, rated at 600 kW(e).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89055

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

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[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E000274

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 1280 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89039

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

Page 2 of 3 Permit: E000274 Issue Date: DRAFT

[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Page 3 of 3 Permit: E000274 Issue Date: DRAFT



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AUTHORITY TO CONSTRUCT

E000275

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 1280 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89044

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing. [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

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[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000276

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 1280 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89034

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing. [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

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[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000277

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 1280 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89050

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

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[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000278

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, producing 875 bhp with 12 cylinders at 1200 rpm while consuming a maximum of 48 gal/hr. This equipment powers a Ideal Electric Generator Model No. SAB and Serial No. 262707, rated at 600 kW(e).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89026

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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:

- 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)]

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[40 CFR 63.6603(a)]

- 10. 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)]
- 11. 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)]
- 12. 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)]#
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000279

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89014

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(b)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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)]

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9. 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 8, 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)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E000280

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g) R

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89022

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

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- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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)]

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9. 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 8, 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)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E000281

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

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, Direct Injected, Turbo Charged, 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).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 875 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.42509, -116.89018

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

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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) and 40 CFR 63.6604]

- 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 or may be interrupted or disrupted by weather. 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. Emergency use includes providing electrical power or mechanical work during day-of-rocket launch and day of space plane vehicle re-entry/landing system checks and tracking performed (in parallel with grid power) by the United States Department of Defense at Command Transmitter sites (also known as "CT" sites) that occur within the 24-hour time period associated with the scheduled time of the launch or re-entry/landing.

 [17 CCR 93115.4(a)(30)(G)]
- 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 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 (i.e. commercial power unavailable, weather-threatening power availability, or command transmitting as allowed per condition 6), 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 8 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 CFR63.6655(a)(5)].
- 8. 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)]

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9. 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 8, 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)]

- 10. 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)]
- 11. 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)]
- 12. 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)]
- 13. This equipment does not require a regularly scheduled emission compliance test. However, emission compliance testing may be required at the discretion of the District.
- 14. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E003381

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP - APOLLO SITE consisting of: Year of Manufacturer 2000, stack height of 10' and a stack diameter of 4".

One Detroit Diesel, Diesel fired internal combustion engine Model No. VMFPT6HT L1211H and Serial No. 91B-1059, producing 140 bhp with 6 cylinders at 0 rpm while consuming a maximum of 6 gal/hr. This equipment powers a Peerless Fire Pump Model No. 5AEF11H and Serial No. 545326, rated at 1000 gpm.

CONDITIONS:

- 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)]

Fee Schedule: 7 (i)

Rating: 1 device

SIC: 9661

SCC: 20200102

Location/Coordinates: +35.34096, -116.87343

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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- 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 not operate 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. The hour limit indicated in condition 4, above, does not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.

 [17 CCR 93115.3(n)]
- 6. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 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 (i.e. testing, maintenance, NFPA testing, etc). [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 8 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 CFR63.6655(a)(5)].
- 8. 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)]
- 9. If this emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform

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the management practice requirements required by condition 8, 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)]

- 10. 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)]
- 11. 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]
- 12. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E003382

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY GENERATOR - ECHO SITE consisting of: Year of Manufacturer 1991, uncertified, existing ICE with a stack height of 8', stack diameter of 5".

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 Onan Generator Model No. 230DFB0D and Serial No. 0910430314, rated at 230 kW(e).

CONDITIONS:

- 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)]

Fee Schedule: 7 (g)

Rating: 1 device

SIC: 9661

SCC: 20100102

Location/Coordinates: +35.30037, -116.80416

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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- 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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 CFR63.6655(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 8, 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.

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- 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]
- 13. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E005133

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY GENERATOR - APOLLO SITE consisting of: Year of Manufacturer 1997, uncertified, existing ICE with a stack height of 10' and a stack diameter of 5".

One Cummins, Diesel fired internal combustion engine Model No. LTA10G1 and Serial No. 34886879, After Cooled, Direct Injected, Inter Cooled, Turbo Charged, producing 380 bhp with 6 cylinders at 1800 rpm while consuming a maximum of 15.6 gal/hr. This equipment powers a Onan Generator Model No. 230DFAB and Serial No. K970658009, rated at 230 kW(e).

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	1.16	gm/bhp-hr
NOx	8.40	gm/bhp-hr
PM10	0.50	gm/bhp-hr
SOx	0.57	gm/bhp-hr
VOC	0.43	gm/bhp-hr

CONDITIONS:

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

Fee Schedule: 7 (g) Rating: 1 device SIC: 9661 SCC: 20100102 Location/Coordinates: +35.34081, -116.87399

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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Brad Poiriez

Air Pollution Control Officer

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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 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 CFR63.6655(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.

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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]
- 13. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E009239

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP - VENUS SITE consisting of: Year of Manufacturer 1989, stack height of 8' and a stack diameter of 3".

One Detroit Diesel, Diesel fired internal combustion engine Model No. DDFP03ANHLH7086 and Serial No. 3A102239, Other, producing 99 bhp with 3 cylinders at 1760 rpm while consuming a maximum of 4 gal/hr. This equipment powers a Allis Chalmers Fire Pump Model No. KSIF and Serial No. 981-94161-05-01, rated at 750 gpm.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	5.0	gm/bhp-hr
NOx	10.0	gm/bhp-hr
PM10	1.0	gm/bhp-hr
VOC	5.0	gm/bhp-hr

CONDITIONS:

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.

Fee Schedule: 7 (g) Rating: 1 device SIC: 9661 SCC: 20200102 Location/Coordinates: +35.24722, -116.79115

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

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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 not operate 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. The hour limit indicated in condition 4, above, does not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.

 [17 CCR 93115.3(n)]
- 6. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 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 (i.e. testing, maintenance, NFPA testing, etc). [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 8 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 CFR63.6655(a)(5)].
- 8. 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

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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)]
- 9. 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 8, 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)]

- 10. 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)]
- 11. 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]
- 12. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

E009240

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP - ECHO SITE consisting of: Year of Manufacturer 1989, stack height of 7' and a stack diameter of 3".

One Detroit Diesel, Diesel fired internal combustion engine Model No. DDFP03ANHLH7086 and Serial No. 3A102268, Other, producing 99 bhp with 3 cylinders at 1760 rpm while consuming a maximum of 6 gal/hr. This equipment powers a Allis Chalmers Fire Pump Model No. KSIF and Serial No. 981-94161-01-01, rated at 1000 gpm.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	5.0	gm/bhp-hr
NOx	10.0	gm/bhp-hr
PM10	1.0	gm/bhp-hr
VOC	5.0	gm/bhp-hr

CONDITIONS:

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.

Fee Schedule: 7 (h) Rating: 1 device SIC: 9661 SCC: 20200102 Location/Coordinates: +35.30143, -116.80554

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 $_{\mathrm{By:}}\mathbf{COPY}$

Brad Poiriez

Air Pollution Control Officer

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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 not operate 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. The hour limit indicated in condition 4, above, does not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.

 [17 CCR 93115.3(n)]
- 6. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 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 (i.e. testing, maintenance, NFPA testing, etc). [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 8 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 CFR63.6655(a)(5)].
- 8. 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

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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)]
- 9. 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 8, 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)]

- 10. 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)]
- 11. 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]
- 12. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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AUTHORITY TO CONSTRUCT

E009241

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL IC ENGINE, EMERGENCY FIRE PUMP - MARS SITE consisting of: Year of Manufacturer 1989, stack height of 15' and a stack diameter of 4".

One Detroit Diesel, Diesel fired internal combustion engine Model No. 10447110 and Serial No. 4A0254393, Turbo Charged, producing 117 bhp with 6 cylinders at 1760 rpm while consuming a maximum of 7 gal/hr. This equipment powers a Fairbanks Morse Fire Pump Model No. TBD and Serial No. K3H1012566, rated at 1770 rpm.

EMISSIONS RATES

Emission Type	Est. Max Load	Unit
СО	5.0	gm/bhp-hr
NOx	10.0	gm/bhp-hr
PM10	1.0	gm/bhp-hr
VOC	5.0	gm/bhp-hr

CONDITIONS:

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.

Fee Schedule: 7 (g) Rating: 1 device SIC: 9661 SCC: 20200102 Location/Coordinates: +35.42625, -116.88575

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 $_{\text{By:}}$ COPY

Brad Poiriez

Air Pollution Control Officer

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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 not operate 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. The hour limit indicated in condition 4, above, does not apply to in-use emergency fire pump assemblies that are driven directly by stationary diesel-fueled CI engines and only operated the number of hours necessary to comply with the testing requirements of National Fire Protection Association (NFPA) 25 "Standard for the Inspection, Testing, and Maintenance of Water-Based Fire Protection Systems," 2002 edition, which is incorporated herein by reference.

 [17 CCR 93115.3(n)]
- 6. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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 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 (i.e. testing, maintenance, NFPA testing, etc). [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 8 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 CFR63.6655(a)(5)].
- 8. 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

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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)]
- 9. 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 8, 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)]
- 10. 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)]
- 11. 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]
- 12. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

 [District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

N001477

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

GASOLINE DISPENSING FACILITY (NON-RETAIL) - ECHO SITE consisting of: A Phil-Tite phase I EVR system and a Healy Assist System with a Healy Clean Air Separator phase II EVR system.

FUEL TANKS

Tank No.	Material Stored	Volume (US Gallons)	Above/Underground
1	87U	10,000	Underground
2	Diesel	10,000	Underground

DISPENSING EQUIPMENT

Fuel Type	Quantity
87U	2
Diesel	1

VAPOR CONTROL EQUIPMENT

Туре	Equipment Name	Compliance
PI	P-T	VR-101
PII	AS CAS	VR-201

Fee Schedule: 5 (b)

Rating: 10000 gallons

SIC: 9661

SCC: 40600603

Location/Coordinates: +35.30066, -116.80493

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: N001477 Issue Date: DRAFT

CONDITIONS:

- 1. The owner/operator shall conspicuously post, in the gasoline dispensing area, the operating instructions and the district's toll-free telephone number for complaints (1-800-635-4617).
 [District Rule 461 Gasoline Transfer and Dispensing]
- 2. The owner/operator shall maintain a log of all inspections, repairs, maintenance, and throughput on equipment. Such logs or records shall be maintained at the facility for at least five (5) years and shall be available to the District upon request. [District Rule 461 Gasoline Transfer and Dispensing]
- 3. Any modifications or changes to the piping, control fittings, or configurations of the vapor recovery system require prior approval from the District.

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

4. The Enhanced Vapor Recovery (EVR), Phase I and II Vapor Recovery System must be tested in accordance with the requirements of CARB Executive Orders, VR-101 and Order VR-201, no later than 60 days after initial startup, and at least once every twelve (12) months using the latest adopted version of the required test procedures.

The District must be notified a minimum of 10 days prior to performing the required tests with the final results submitted to the District within 30 days of completion of the tests. Testing notifications and testing results may be sent to VaporRecoveryTesting@mdagmd.ca.gov

[District Rule 461 - Gasoline Transfer and Dispensing, Executive Orders VR-101 and 201]

5. The annual throughput of gasoline shall not exceed 600,000 gallons per year. Throughput records shall be kept on site and available to District personnel upon request, and annual throughput for the previous calendar year shall be provided to the District not later than the end of February of each year. Before this annual throughput can be increased the facility is required to submit to the District an application to modify the permit which may require a Health Risk Assessment (HRA). In addition, public notice and/or a commenting period may be required.

[District Rule 1320 - NSR for Toxic Air Contaminants; District Rule 107(b); H&S Code 39607 & 44341-44342; and 40 CFR 51, Subpart A]

6. Enhanced Vapor Recovery (EVR), 2-Point Phase I Vapor Control Equipment must be installed and maintained in compliance with CARB Executive Order VR-101. The owner or operator shall perform the required maintenance as specified in ARB-Approved Installation and Maintenance Manual for the Phase I Vapor Recovery System, including PV maintenance, as applicable.

[District Rule 461 - Gasoline Transfer and Dispensing, Executive Order VR-101, 40 CFR 63, Subpart CCCCCC]

- 7. Enhanced Vapor Recovery (EVR), Phase II Vapor Control Equipment must be installed and maintained in compliance with CARB Executive Order VR-201. The owner or operator shall install, operate and maintain the Phase II Vapor Recovery System as specified in the ARB-approved Installation, Operation and Maintenance Manual for the Phase II Vapor Recovery System. [District Rule 461 Gasoline Transfer and Dispensing, Executive Order VR-201, 40 CFR 63, Subpart CCCCCC]
- 8. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. These records shall be maintained as current for a minimum of five (5) years, and made available upon District, State and/or Federal request.

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



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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

P012830

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PORTABLE SPRAY GUN (#3) consisting of: a Binks MACH 1 HVLP spray gun.

CONDITIONS:

- 1. This equipment shall be 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. [District Rule 1302(C)(2)(a)]
- 2. All Coatings (including diluents, activators, thinners, etc.) Solvents, Application Methods, Surface Preparation & Cleaning Operations, and Record Keeping, shall comply with District Rules 442, 1113, 1114, and 1115, as applicable. These rules pertain to Usage of Solvents, Architectural Coatings, Wood Products Coating Operations, and Metal Parts & Products Coating Operations, respectively. Any use of a Coating or Solvent that is not compliant with a District Rule must have written approval from the District prior to use.

 [District Rule 1302(C)(2)(a)]
- 3. The owner/operator must use one of the following application methods when applying coatings:
- a. High Volume Low Pressure (HVLP) Spray equipment, operated in accordance with the manufacturer's recommendations; or
- b. Hand Application Methods.

Fee Schedule: 7 (C)

Rating: 1 device

SIC: 9661

SCC: 30900198

Location/Coordinates: +35.42479, -116.89100

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: P012830 Issue Date: DRAFT

Any alternate Coating applications must be demonstrated to the satisfaction of the District and receive written approval from the District prior to use.

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 4. 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. Equipment by permit number, or name of operation for unpermitted equipment, that uses material containing VOC.
- b. Type of material (Coating, Activator, Thinner, Solvent, etc.) and its applicable VOC limit in pounds per gallon (or grams per liter) by District Rule or Rules.
- c. Manufacturer of each material, manufacturer product name, and/or code number.
- d. Quantity of each material used (Coating, Activator, Thinner, Solvent, etc.) and its VOC content and mix ratio, if applicable. (Note: Units most be consistent. If quantity used is in gallons (or liters), the VOC must be in pounds per gallon (or grams per liter). Units used in item 'b.' and 'd.' must be the same).
- e. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each material used (Coating, Activator, Thinner, Solvent, etc.). These data sheets must indicate the toxic compounds in each material and the percentage weight of each toxic compound in order to demonstrate compliance with toxic emission reporting required by condition 10. Toxic compounds are those Hazardous Air Pollutants found in Section 112(b)(1) of the Federal Clean Air Act or at web site: http://www.epa.gov/ttn/atw/188polls.html

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. All containers of VOC-containing materials must be closed when not in use, including containers used to apply the contents of VOC-containing materials to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, must be closed when not in use. These containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers.

[District Rule 1113(C)(6) and 1302(C)(2)(a)]

- 7. Any coating that is formulated for use as an Industrial Maintenance Coating pursuant to District Rule 1113 must display on the label or lid of the container in which the Coating is sold or distributed one or more of the descriptions listed:
- a. "For industrial use only".
- b. "For professional use only".
- c. "Not for Residential use" or "Not intended for Residential use".

[District Rule 1113(e)]

8. This equipment cannot be used to coat Motor Vehicles or Mobile Equipment and/or use coatings manufactured for such coatings.

Motor Vehicles passenger cars, truck cabs and chassis, vans, motorcycles, and buses.

Mobile Equipment means any equipment that is designed to be physically capable of being driven or drawn upon rails or a roadway, except for motor vehicles, and components for and from such equipment. Examples of Mobile Equipment include mobile cranes; bulldozers; concrete mixers; tractors; plows; pesticide sprayers; street cleaners; golf carts; hauling equipment used inside and around an airport, dock, depot, and industrial and commercial plants; trains; railcars; truck trailers; implements of husbandry; aircraft ground support equipment; all terrain vehicles; self-propelled wheelchairs, invalid tricycles, and invalid quadricycles.

[District Rule 1302(C)(2)(a) and 17 CCR 93112]

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9. The National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations (40 CFR 63, Subpart HHHHHH) does not apply to this facility as section 63.11169(d)(1) specifically exempts surface coating or paint stripping performed on site at installations owned or operated by the National Aeronautics and Space Administration.

[40 CFR 63, Subpart HHHHHH]

10. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



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14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

P012831

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PORTABLE SPRAY GUN (#2) consisting of: a Binks MACH 1 HVLP spray gun.

CONDITIONS:

- 1. This equipment shall be 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. [District Rule 1302(C)(2)(a)]
- 2. All Coatings (including diluents, activators, thinners, etc.) Solvents, Application Methods, Surface Preparation & Cleaning Operations, and Record Keeping, shall comply with District Rules 442, 1113, 1114, and 1115, as applicable. These rules pertain to Usage of Solvents, Architectural Coatings, Wood Products Coating Operations, and Metal Parts & Products Coating Operations, respectively.

 [District Rule 1302(C)(2)(a)]
- 3. The owner/operator must use one of the following application methods when applying coatings:
- a. High Volume Low Pressure (HVLP) Spray equipment, operated in accordance with the manufacturer's recommendations; or
- b. Hand Application Methods.

Fee Schedule: 7 (C)

Rating: 1 device

SIC: 9661

SCC: 30900198

Location/Coordinates: +35.42479, -116.89100

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: P012831 Issue Date: DRAFT

Any alternate Coating applications must be demonstrated to the satisfaction of the District and receive written approval from the District prior to use.

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 4. 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. Equipment by permit number, or name of operation for unpermitted equipment, that uses material containing VOC.
- b. Type of material (Coating, Activator, Thinner, Solvent, etc.) and its applicable VOC limit in pounds per gallon (or grams per liter) by District Rule or Rules.
- c. Manufacturer of each material, manufacturer product name, and/or code number.
- d. Quantity of each material used (Coating, Activator, Thinner, Solvent, etc.) and its VOC content and mix ratio, if applicable. (Note: Units most be consistent. If quantity used is in gallons (or liters), the VOC must be in pounds per gallon (or grams per liter). Units used in item 'b.' and 'd.' must be the same).
- e. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each material used (Coating, Activator, Thinner, Solvent, etc.). These data sheets must indicate the toxic compounds in each material and the percentage weight of each toxic compound in order to demonstrate compliance with toxic emission reporting required by condition 10. Toxic compounds are those Hazardous Air Pollutants found in Section 112(b)(1) of the Federal Clean Air Act or at web site: http://www.epa.gov/ttn/atw/188polls.html

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. All containers of VOC-containing materials must be closed when not in use, including containers used to apply the contents of VOC-containing materials to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, must be closed when not in use. These containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers.

[District Rule 1113(C)(6) and 1302(C)(2)(a)]

- 7. Any coating that is formulated for use as an Industrial Maintenance Coating pursuant to District Rule 1113 must display on the label or lid of the container in which the Coating is sold or distributed one or more of the descriptions listed:
- a. "For industrial use only".
- b. "For professional use only".
- c. "Not for Residential use" or "Not intended for Residential use".

[District Rule 1113(e)]

8. This equipment cannot be used to coat Motor Vehicles or Mobile Equipment and/or use coatings manufactured for such coatings.

Motor Vehicles passenger cars, truck cabs and chassis, vans, motorcycles, and buses.

Mobile Equipment means any equipment that is designed to be physically capable of being driven or drawn upon rails or a roadway, except for motor vehicles, and components for and from such equipment. Examples of Mobile Equipment include mobile cranes; bulldozers; concrete mixers; tractors; plows; pesticide sprayers; street cleaners; golf carts; hauling equipment used inside and around an airport, dock, depot, and industrial and commercial plants; trains; railcars; truck trailers; implements of husbandry; aircraft ground support equipment; all terrain vehicles; self-propelled wheelchairs, invalid tricycles, and invalid quadricycles.

[District Rule 1302(C)(2)(a) and 17 CCR 93112]

Page 2 of 3 Permit: P012831 Issue Date: DRAFT

9. The National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations (40 CFR 63, Subpart HHHHHH) does not apply to this facility as section 63.11169(d)(1) specifically exempts surface coating or paint stripping performed on site at installations owned or operated by the National Aeronautics and Space Administration.

[40 CFR 63, Subpart HHHHHH]

10. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



Page 3 of 3 Permit: P012831 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

P012832

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PORTABLE SPRAY GUN (#1) consisting of: a Binks Mach 1 HVLP spray gun.

CONDITIONS:

- 1. This equipment shall be 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. [District Rule 1302(C)(2)(a)]
- 2. All Coatings (including diluents, activators, thinners, etc.) Solvents, Application Methods, Surface Preparation & Cleaning Operations, and Record Keeping, shall comply with District Rules 442, 1113, 1114, and 1115, as applicable. These rules pertain to Usage of Solvents, Architectural Coatings, Wood Products Coating Operations, and Metal Parts & Products Coating Operations, respectively. Any use of a Coating or Solvent that is not compliant with a District Rule must have written approval from the District prior to use.

 [District Rule 1302(C)(2)(a)]
- 3. The owner/operator must use one of the following application methods when applying coatings:
- a. High Volume Low Pressure (HVLP) Spray equipment, operated in accordance with the manufacturer's recommendations; or
- b. Hand Application Methods.

Fee Schedule: 7 (C)

Rating: 1 device

SIC: 9661

SCC: 30900198

Location/Coordinates: +35.42479, -116.89100

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: P012832 Issue Date: DRAFT

Any alternate Coating applications must be demonstrated to the satisfaction of the District and receive written approval from the District prior to use.

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 4. 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. Equipment by permit number, or name of operation for unpermitted equipment, that uses material containing VOC.
- b. Type of material (Coating, Activator, Thinner, Solvent, etc.) and its applicable VOC limit in pounds per gallon (or grams per liter) by District Rule or Rules.
- c. Manufacturer of each material, manufacturer product name, and/or code number.
- d. Quantity of each material used (Coating, Activator, Thinner, Solvent, etc.) and its VOC content and mix ratio, if applicable. (Note: Units most be consistent. If quantity used is in gallons (or liters), the VOC must be in pounds per gallon (or grams per liter). Units used in item 'b.' and 'd.' must be the same).
- e. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each material used (Coating, Activator, Thinner, Solvent, etc.). These data sheets must indicate the toxic compounds in each material and the percentage weight of each toxic compound in order to demonstrate compliance with toxic emission reporting required by condition 10. Toxic compounds are those Hazardous Air Pollutants found in Section 112(b)(1) of the Federal Clean Air Act or at web site: http://www.epa.gov/ttn/atw/188polls.html

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. All containers of VOC-containing materials must be closed when not in use, including containers used to apply the contents of VOC-containing materials to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, must be closed when not in use. These containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers.

[District Rule 1113(C)(6) and 1302(C)(2)(a)]

- 7. Any coating that is formulated for use as an Industrial Maintenance Coating pursuant to District Rule 1113 must display on the label or lid of the container in which the Coating is sold or distributed one or more of the descriptions listed:
- a. "For industrial use only".
- b. "For professional use only".
- c. "Not for Residential use" or "Not intended for Residential use".

[District Rule 1113(e)]

8. This equipment cannot be used to coat Motor Vehicles or Mobile Equipment and/or use coatings manufactured for such coatings.

Motor Vehicles passenger cars, truck cabs and chassis, vans, motorcycles, and buses.

Mobile Equipment means any equipment that is designed to be physically capable of being driven or drawn upon rails or a roadway, except for motor vehicles, and components for and from such equipment. Examples of Mobile Equipment include mobile cranes; bulldozers; concrete mixers; tractors; plows; pesticide sprayers; street cleaners; golf carts; hauling equipment used inside and around an airport, dock, depot, and industrial and commercial plants; trains; railcars; truck trailers; implements of husbandry; aircraft ground support equipment; all terrain vehicles; self-propelled wheelchairs, invalid tricycles, and invalid quadricycles.

[District Rule 1302(C)(2)(a) and 17 CCR 93112]

Page 2 of 3 Permit: P012832 Issue Date: DRAFT

9. The National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations (40 CFR 63, Subpart HHHHHH) does not apply to this facility as section 63.11169(d)(1) specifically exempts surface coating or paint stripping performed on site at installations owned or operated by the National Aeronautics and Space Administration.

[40 CFR 63, Subpart HHHHHH]

10. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



Page 3 of 3 Permit: P012832 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

P012833

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

PORTABLE SPRAY SYSTEM consisting of: a Binks, MX1231 air assist & airless finishing system with a 31:1 pump system.

CONDITIONS:

- 1. This equipment shall be 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. [District Rule 1302(C)(2)(a)]
- 2. All Coatings (including diluents, activators, thinners, etc.) Solvents, Application Methods, Surface Preparation & Cleaning Operations, and Record Keeping, shall comply with District Rules 442, 1113, 1114, and 1115, as applicable. These rules pertain to Usage of Solvents, Architectural Coatings, Wood Products Coating Operations, and Metal Parts & Products Coating Operations, respectively. Any use of a Coating or Solvent that is not compliant with a District Rule must have written approval from the District prior to use.

 [District Rule 1302(C)(2)(a)]
- 3. The owner/operator must use one of the following application methods when applying coatings:
- a. High Volume Low Pressure (HVLP) Spray equipment, operated in accordance with the manufacturer's recommendations; or
- b. Hand Application Methods.

Fee Schedule: 7 (C)

Rating: 1 device

SIC: 9661

SCC: 30900198

Location/Coordinates: +35.42479, -116.89100

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 By: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 3 Permit: P012833 Issue Date: DRAFT

Any alternate Coating applications must be demonstrated to the satisfaction of the District and receive written approval from the District prior to use. Air Assist/Airless spray application is an approved application method. [District Rules 1114, 1115 and 1302(C)(2)(a)]

- 4. 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. Equipment by permit number, or name of operation for unpermitted equipment, that uses material containing VOC.
- b. Type of material (Coating, Activator, Thinner, Solvent, etc.) and its applicable VOC limit in pounds per gallon (or grams per liter) by District Rule or Rules.
- c. Manufacturer of each material, manufacturer product name, and/or code number.
- d. Quantity of each material used (Coating, Activator, Thinner, Solvent, etc.) and its VOC content and mix ratio, if applicable. (Note: Units most be consistent. If quantity used is in gallons (or liters), the VOC must be in pounds per gallon (or grams per liter). Units used in item 'b.' and 'd.' must be the same).
- e. Copies of the Environmental Data Sheet and/or Material Safety Data Sheet (MSDS) for each material used (Coating, Activator, Thinner, Solvent, etc.). These data sheets must indicate the toxic compounds in each material and the percentage weight of each toxic compound in order to demonstrate compliance with toxic emission reporting required by condition 10. Toxic compounds are those Hazardous Air Pollutants found in Section 112(b)(1) of the Federal Clean Air Act or at web site: http://www.epa.gov/ttn/atw/188polls.html

[District Rules 1114, 1115 and 1302(C)(2)(a)]

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 6. All containers of VOC-containing materials must be closed when not in use, including containers used to apply the contents of VOC-containing materials to a surface directly from the container by pouring, siphoning, brushing, rolling, padding, ragging or other means, must be closed when not in use. These containers include, but are not limited to, drums, buckets, cans, pails, trays or other application containers.

[District Rule 1113(C)(6) and 1302(C)(2)(a)]

- 7. Any coating that is formulated for use as an Industrial Maintenance Coating pursuant to District Rule 1113 must display on the label or lid of the container in which the Coating is sold or distributed one or more of the descriptions listed:
- a. "For industrial use only".
- b. "For professional use only".
- c. "Not for Residential use" or "Not intended for Residential use".

[District Rule 1113(e)]

8. This equipment cannot be used to coat Motor Vehicles or Mobile Equipment and/or use coatings manufactured for such coatings.

Motor Vehicles passenger cars, truck cabs and chassis, vans, motorcycles, and buses.

Mobile Equipment means any equipment that is designed to be physically capable of being driven or drawn upon rails or a roadway, except for motor vehicles, and components for and from such equipment. Examples of Mobile Equipment include mobile cranes; bulldozers; concrete mixers; tractors; plows; pesticide sprayers; street cleaners; golf carts; hauling equipment used inside and around an airport, dock, depot, and industrial and commercial plants; trains; railcars; truck trailers; implements of husbandry; aircraft ground support equipment; all terrain vehicles; self-propelled wheelchairs, invalid tricycles, and invalid quadricycles.

[District Rule 1302(C)(2)(a) and 17 CCR 93112]

Page 2 of 3 Permit: P012833 Issue Date: DRAFT

9. The National Emission Standards for Hazardous Air Pollutants for Paint Stripping and Miscellaneous Surface Coating Operations (40 CFR 63, Subpart HHHHHH) does not apply to this facility as section 63.11169(d)(1) specifically exempts surface coating or paint stripping performed on site at installations owned or operated by the National Aeronautics and Space Administration.

[40 CFR 63, Subpart HHHHHH]

10. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]



Page 3 of 3 Permit: P012833 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

T003003

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

DIESEL FUEL STORAGE TANKS - MARS SITE consisting of: Two 25,000 gallon, underground, Diesel No. 2 fuel storage tanks, double-walled plasti-steel with leak detection, level detection and overfill protection.

CONDITIONS:

- 1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles 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. The applicant shall be required to comply with all applicable Rules and Regulations of the District. Applicable rules include but are not necessarily limited to Regulation IV. [District Rule 1302 (C)(2)(a)]
- 3. All of the components of this tank, including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations. This condition shall be verified via a visual inspection conducted on a monthly basis.

Fee Schedule: 5 (b) Rating: 50000 gallons SIC: 9661 SCC: 40600651 Location/Coordinates: +35.42488, -116.89075

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: T003003 Issue Date: DRAFT

- 4. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 5. 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) Record of liquids stored in this tank, verified by retention of fuel supplier invoices, bill of lading, or similar document.
- (b) A log containing the date and results of the inspections specified by condition 2, and any repairs and maintenance conducted on this equipment.

[District Rule 463(D)(1) and (D)(3)]

6. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

Page 2 of 2 Permit: T003003 Issue Date: DRAFT



14306 Park Avenue, Victorville, CA 92392-2310 760.245.1661 -- 800.635.4617 -- FAX 760.245.2022

AUTHORITY TO CONSTRUCT

T012185

If construction is not completed by the expiration date of this permit, it may be renewed for one additional year upon payment of applicable fees. Any additional extension will require the written approval of the Air Pollution Control Officer. This Authority to Construct may serve as a temporary Permit to Operate provided the APCO is given prior notice of intent to operate and the Permit to Operate is not specifically denied.

EXPIRES LAST DAY OF: SEPTEMBER 2019

OWNER OR OPERATOR (Co.#133)

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310

EQUIPMENT LOCATION (Fac. #611)

NASA/Goldstone Deep Space Communications Complex Goldstone Lake Fort Irwin, CA 92311

Description:

STORAGE TANK, WASTE OIL - MARS SITE consisting of:

A 2,000 gallon, underground, double walled tank manufactured by Joor Manufacturing, serial G-81-3. This tank is electronically monitored by a Veeder Root 350 TLS monitoring system, and is used to store waste oil generated from the ten (10), diesel IC engines powering emergency generators at the Mars site. This tank includes a vent pipe measuring 25 feet high and 3 inches in diameter.

CONDITIONS:

- 1. This equipment shall be installed, operated and maintained in strict accord with those recommendations of the manufacturer/supplier and/or sound engineering principles 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. The owner/operator shall strictly adhere to all Federal, State, and/or District rules and regulations which pertain to the storing, handling, transferring, transporting, and disposing of waste oils.

 [District Rule 1302(C)(2)(a)]
- 3. Only waste oil generated from the ten (10), diesel IC engines powering emergency generators at the Mars site, under the

Fee Schedule: 5 (a)

Rating: 2000 gallons

SIC: 9661

SCC: 30630006

Location/Coordinates: +35.42490, -116.89066

This permit does not authorize the emission of air contaminants in excess of those allowed by law, including Division 26 of the Health and Safety Code of the State of California and the Rules and Regulations of the District. This permit cannot be construed as permission to violate existing laws, ordinances, statutes or regulations of this or other governmental agencies. This permit must be renewed by the expiration date above. If billing for renewal fee required by Rule 301(c) is not received by expiration date above, please contact the District.

NASA/Goldstone 93 Goldstone Rd. Fort Irwin, CA 92310 BV: COPY

Brad Poiriez

Air Pollution Control Officer

Page 1 of 2 Permit: T012185 Issue Date: DRAFT

following permits, shall be transferred and/or stored into/in this tank: E000272, E000273, E000274, E000275, E000276, E000277, E000278, E000279, E000280, and E000281. [District Rule 463(D)(1)]

4. All of the components of this tank, including but not limited to tanks, flanges, seals, pipes, pumps, valves, meters, connectors, shall be maintained and operated so as to prevent fugitive vapor leaks, fugitive liquid leaks, and excess organic liquid drainage during transfer, storage and handling operations. This condition shall be verified via a visual inspection conducted on a monthly basis.

[District Rule 463(C)(3)].

- 5. Facility-wide emissions shall not exceed 80 tons per year of NOx, 24 tons per year of VOC, and 18 tons per year of PM10. Facility-wide emissions shall be calculated and recorded, in tons, on a calendar month basis and totaled for each consecutive twelve-month basis. For emergency engines, only emissions generated during testing and maintenance shall apply toward the facility-wide emission limits. 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 221(B)]
- 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. Record of liquids stored in this tank, verified by recording the dates of each oil transfer to this tank from the allowed engines specified in condition 3, and by retention of the waste manifests issued upon disposal of waste oil.
- b. A log containing the date and results of the inspections specified by condition 4, and any repairs and maintenance conducted on this equipment.

[District Rule 463 (D)(1) and (D)(3)].

7. A facility wide Comprehensive Emission Inventory (CEI) for all emitted criteria and toxic air pollutants must be submitted to the District, in a format approved by the District, upon District request.

[District Rule 107(b), H&S Code 39607 & 44341-44342, and 40 CFR 51, Subpart A]

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