

ENGINEERING EVALUATION AUTHORITY TO CONSTRUCT

Facility Name: La Jolla Cove Research Center
Equipment Type: 34H – Natural Gas Emergency Engine
Application #: APCD2026-APP-009000 & APP-009190
ID#: APCD2024-SITE-04628
Equipment/Facility Address: 505 Coast Blvd. South,
La Jolla CA, 92037
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9/11/2026

X Hawzhin Muhamed

Hawzhin Muhamed
Assistant APC Engineer
Signed by: E089831

Permit Engineer:

X

Joe Herzig
Senior Air Pollution Control Engineer

Senior Engineer Signature:

1.0 Background

1.1 Type of Application: “New” installation for two (2) existing unpermitted natural gas fired emergency engines. For rules and regulation’s purpose, these generators are not considered existing but new (NSR 20.1 definition).

1.2 Permit History: These are the initial applications for the equipment.

1.3 Facility Description: This facility is a Research Center. The engines will provide emergency backup power to generators. This facility has no active permits at this site. These two open applications are considered as one project as per Rule 1200 definition. The site has three closed NOV’s (APCD2024-NOV-000741, APCD2025-NOV-00410 and APCD2026-NOV-00816) were issued for installing/ operating two Natural Gas engines without prior written approval from District. These two applications will address these NOV’s.

1.4 Other Background Info: There are no hearing board actions, permit denials, legal settlements, NOV, NTC, or nuisance complaints. The site is not a Title V facility. This facility is not subject to any Rule 1210 requirements.

2.0 Process Description

2.1 Equipment Description.

Natural Gas Fired Emergency **Engine 1**

Manufacturer: PSI

Model: KG6208TSD

S/N: SGM32H7F4

Horsepower (maximum rated): 126 BHP

Model Year: 2016

Engine Family (EPA): GPSIB5.70EMT

Equipped with 3-way catalyst

Driving 80 kW generator;

Exhausting vertically through a 4.5-inch stack, 8.0 feet above ground.

Natural Gas Fired Emergency **Engine 2**

Manufacturer: Kohler

Model: KG6208

S/N: 0E20200455

Horsepower (maximum rated): 103 BHP

Model Year: 2019

Engine Family (EPA): KKHXB06.2NNG

Equipped with after-market 3-way catalyst

Driving 40 kW generator;

Exhausting vertically through a 3-inch stack, 5.0 feet above ground

2.2 Process Description.

Natural gas engines that power electrical generator to provide backup power to the facility during power outages and for limited operations for maintenance and testing purposes for the La Jolla Cove Research Center operation. These engines will be fired with natural gas only.

2.3 Emissions Controls.

This is an EPA certified natural gas engine. It is equipped with 3-way catalyst.

2.4 Attachments.

Generator specification sheet.

3.0 Emissions

3.1 Emissions estimate summary. Estimated emissions from the process are shown below.

Table 1: Estimated PTE for criteria pollutants

Compound	Emission Factor	Hourly Emissions	Daily Emissions	Annual Emissions
	g/bhp-hr	lbs/hr	lbs/day	tons/year
NO _x	0.01	0.003	0.07	0.00007
CO	0.68	0.19	4.53	0.005
NMHC	0.01	0.003	0.07	0.00007
PM	N/A	0.02	0.57	0.0006
SO _x	N/A	0.001	0.02	0.00002

Table 2: Estimated PTE for criteria pollutants

Compound	Emission Factor	Hourly Emissions	Daily Emissions	Annual Emissions
	g/bhp-hr	lbs/hr	lbs/day	tons/year
NO _x	0.10	0.024	0.57	0.00062
CO	1.37	0.31	7.44	0.008
NMHC	0.01	0.002	0.04	0.00005
PM	N/A	0.01	0.35	0.0004
SO _x	N/A	0.0004	0.01	0.00001

Table3: Estimated PTE for criteria pollutants

Compound	Emission Factor	Hourly Emissions	Daily Emissions	Annual Emissions
	g/bhp-hr	lbs/hr	lbs/day	tons/year
NO _x	NA	0.026	0.64	0.001
CO	NA	0.499	11.97	0.013
NMHC	NA	0.005	0.11	0.000
PM	NA	0.038	0.92	0.001
SO _x	NA	0.001	0.03	0.00003

3.2 Estimated Emissions Assumptions

- Table 1 and 2 evaluates the emission unit at 24 hours per day and a total of 52 hours per year, assuming full load operations.
- Table 3 evaluates the total emission for both engines.
- Estimated emissions are calculated for maintenance and testing operations. Emergency use is not counted towards operation limits.
- Emission factors for NO_x, CO and VOCs were given by the manufacturer and based on the performance of the three-way catalyst.
- Emission factors for NO_x, CO and VOCs were given by the manufacturer and based on the performance of the three-way catalyst.
- Other standard assumptions as stated in calculation sheets
- Expected actual emissions same as PTE.
- Other standard assumptions as stated in calculation sheets

3.3 Emissions Calculations.

Calculations were performed using the attached spreadsheets using standard calculation methods.

3.4 Attachments.

Emission Calculations.

4.0 Applicable Rules

4.1 District Prohibitory Rules

Emergency engines at non-major sources are subject to the following District prohibitory rules: 50, 51, 53, 62 and 69.4.1. The proposed engine is expected to comply with all applicable requirements as shown in the table on the following page with standard permit conditions for this equipment type.

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Table 2: Prohibitory Rule Discussion

Applicable Section	Requirement	Engine Complies?	Explanation	Condition
Rule 50	Visible Emissions not to exceed 20% opacity or Ringelmann 1 for more than 3 minutes in a 60 minute period	Yes	Compliance with this requirement is achieved through the use of an EPA certified engine, and permit conditions will specify this requirement.	C28413
Rule 51	Cannot cause or contribute to a public nuisance	Yes	Due to the intermittent operation of an emergency engine that meets all emission requirements, it is anticipated that this will not cause a public nuisance. Permit conditions will prohibit this engine from causing a public nuisance.	C28414
Rule 53(d)(1)	Emissions of sulfur compounds calculated as SO ₂ on a dry basis shall not exceed 0.05 % by volume on a dry basis.	Yes	Permit conditions will require use of gaseous fuel with a maximum sulfur content of 10 grains per 100 dscf which will ensure compliance with this requirement.	C28587
Rule 53(d)(2)	Emissions of combustion particulates shall not exceed 0.10 grains per dry standard cubic foot (0.23 grams per dry standard cubic meter) of gas which is standardized to 12 percent of carbon dioxide (CO ₂) by volume.	Yes	Particulate emission from this engine is calculated at 0.004 grains per dry scft gas at 12% CO ₂ [NG], therefore complies with this requirement.	NA
Rule 62	Sulfur content of liquid fuel shall not exceed 0.5 % sulfur by weight.	Yes	Permit conditions will require use of NG with a maximum sulfur content of 10 grains per 100 dscf which will ensure compliance with this requirement.	C28587
Rule 69.4.1				
69.4.1 (C)(24)	“New Engine” means an engine for which a complete application was submitted to the District after July 8, 2020.	Yes	A complete application for both engines were submitted to District in 2026, hence it is considered “New”	NA

69.4.1(d)(1)(ii)(E)	Requires new or replacement emergency standby engines to meet the following emission standards: (Rich-burn engines using gaseous fuel) NOx: 25 ppmv; VOC: 86 ppmv; CO: 540 ppmw	Yes	This engine is rich burn engine using gaseous fuel. The engine complies with these emission standards with 0.6 ppmv NOx, 68.1 ppmv CO, and 1.8 ppmv VOC at 15% oxygen for the first engine and 9.5 ppmv NOx, 203.0 ppmv CO, and 2.0 ppmv VOC at 15% oxygen for the second engine.	
69.4.1(e)(1)	Requires an owner or operator of an engine without add-on control equipment, except engines specified in Subsections (b)(3) or (b)(4), to monitor the operating parameters recommended by the engine manufacturer and any additional operating parameters identified by the Air Pollution Control Officer. Such operating parameters may include, but are not limited to: (i) engine air-to-fuel ratio; (ii) engine inlet manifold temperature and pressure; and (iii) oxygen content of the exhaust gas.	N/A	Both engines have a 3-way catalyst as the add-on control device, therefore (e)(2) applies instead of (e)(1).	N/A
69.4.1(e)(2)	Requires an owner or operator of an engine with add-on control equipment, except engines specified in Subsections (b)(3) or (b)(4), to install, operate and maintain in calibration, devices that continuously monitor the operational characteristics of the engine and any NOx emission reduction system as determined necessary to ensure compliance by the Air Pollution Control Officer. Such operational characteristics shall include, but are not limited to:	Yes	These engines are exempt from this requirement as emergency engine per (b)(4).	N/A

	(i) engine air-to-fuel ratio; (ii) temperature of exhaust gas at the inlet and outlet of the add-on control equipment; (iii) oxygen content of exhaust gas at the inlet and outlet of the add-on control equipment; or (iv) flow rate of NOx reducing agent added to the engine exhaust gas.			
69.4.1(e)(3)	All engines must be equipped with a non-resettable totalizing fuel or hour meter which shall be replaced in accordance with subsection (g)(7) of this rule.	Yes	Permit conditions will require installation of a non-resettable hour meter and specify the requirements for replacement.	C43938
69.4.1(e)(4)	Requires an owner or operator of a new or replacement non-emergency gaseous-fueled engine rated at 1,000 bhp or greater and permitted to operate more than 2,000 hours per calendar year to install, operate, and maintain a Continuous Emissions Monitoring System (CEMS) for NOx and CO.	N/A	These engines are emergency engines; therefore, they are not subject to CEMS requirement.	N/A
69.4.1(e)(5)	Rule 69.4.1(e)(5) requires an owner or operator of a non-emergency gaseous-fueled engine, except engines specified in Subsections (b)(3)(ii), (b)(4)(ii) or (e)(4), to have a trained operator use a portable analyzer to take NOx and CO emission readings.	N/A	These engines are emergency engine; therefore, they are not subject to portable analyzer requirement.	N/A
69.4.1(f)(1)	Requires an owner or operator of an engine subject to this rule, except engines specified in Subsections (b)(3), (b)(4), (e)(4) or (e)(5), to conduct periodic inspections of the engine and any add-on control	N/A	These are emergency engines therefore; they are exempt from inspections every 4,000 hours per (b)(4).	N/A

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	equipment, as applicable, to ensure that the engine and control equipment is operated in compliance with the provisions of this rule. Inspections shall be conducted at least once every 4,000 hours of operation, or every six months, whichever is less.			
69.4.1(f)(2)	The owner or operator must conduct periodic maintenance on the engine, according to engine/control equipment manufacturer's instructions or other written procedure, at least once each calendar year.	Yes	Annual maintenance of engine according to written procedure will be required by permit conditions.	C45281
69.4.1(g)(1)	Specifies engine information that must be maintained on-site.	Yes	Manufacturer and model number, brake horsepower rating, combustion method and fuel type are contained in the permit application. Manual of recommended maintenance will be specified in permit conditions.	C43937
69.4.1(g)(2)	Requires keeping an operating log containing dates and times and purpose of each period of engine operation, cumulative operation of engine for each calendar year and maintenance records including dates maintenance is performed. Engines within 500 feet of schools must record the time of day when the engine is operated for testing and maintenance. Specific records for internal, external, and partial external power outages is required.	Yes	Compliance with this provision is expected and this requirement is specified in permit conditions.	C45288

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69.4.1(g)(6)	Requires records of the dates and times when fuel is being combusted and cumulative operating time if claiming a commissioning exemption.	NA	The applicant has not claimed a commissioning period is needed.	NA
69.4.1(g)(7)	Requires notification to APCD within 10 calendar days of replacing an hour meter.	Yes	Compliance with this provision is expected and this requirement is specified in permit conditions.	C43938
69.4.1(g)(8)	Requires an owner or operator of an engine subject to the requirements of Subsection (e)(5) [portable analyzer requirements] to comply with specified recordkeeping.	N/A	These engines are not subject to (e)(5) because they are not a prime engine.	N/A
69.4.1(g)(9)	Requires specified records to be maintained on-site for at least three years and made available to the District upon request.	Yes	Compliance with this provision is expected and this requirement is specified in permit conditions.	C43941
69.4.1(g)(10)	Requires all records required by Subsection (g)(8) to be retained in electronic and/or hardcopy format on-site, or off-site in a central location, for at least three years and made available to the District upon request.	N/A	These are emergency engines; therefore, they are not subject to this requirement.	N/A
69.4.1(h)	Specifies test methods for engines subject to testing.	N/A	Emergency engine is not subject to testing per Subsection (b)(4)(i).	N/A
69.4.1(i)(1)	Requires periodic source testing to confirm compliance with applicable emission standards.	NA	This subsection does not apply to certified emergency engines.	NA

ENGINEERING EVALUATION ATTACHMENTS

4.2 New Source Review (NSR) Rule 20.1-20.4

This application is subject to District NSR rules. At the time of filing, this facility is not considered a major stationary source, for each pollutant, as shown in the following table, and is therefore subject to District Rule 20.2. Calculation of emissions and determination of applicable requirements is performed in accordance with District Rule(s) 20.1 through 20.3.

Table 3: Classification of Major/PSD Source and Modification New Source Review (NSR) Requirements

	NO_x	VOC	PM-10	PM-2.5	SO_x	CO	Lead
<i>Major Source Threshold (ton/year)</i>	<i>50</i>	<i>50</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>	<i>100</i>
Major Source? (yes/no)	No	No	No	No	No	No	No
<i>Major Modification Threshold (ton/year)</i>	<i>25</i>	<i>25</i>	<i>15</i>	<i>10</i>	<i>40</i>	<i>100</i>	<i>0.6</i>
Major Modification at a Major Source?	No	No	No	No	No	No	No
Contemporaneous Calculations Performed?	No	No	No	No	No	No	No
Federal Major Stationary Source Threshold (ton/year) (Severe non-attainment status)	25	25	100	100	100	100	100
Federal Major Stationary Source?	No	No	No	No	No	No	No
<i>Federal Major Modification Threshold (ton/year)</i> <i>(Severe non-attainment status)</i>	<i>25</i>	<i>25</i>	<i>15</i>	<i>10</i>	<i>40</i>	<i>100</i>	<i>0.6</i>
Federal Major Modification?	No	No	No	No	No	No	No
Contemporaneous Net Calculations Performed	No	No	No	No	No	No	No
<i>PSD Threshold (ton/year)</i>	<i>250</i>	<i>250</i>	<i>250</i>	<i>--</i>	<i>250</i>	<i>250</i>	<i>--</i>
<i>PSD Modification Threshold (ton/year)</i>	<i>40</i>	<i>40</i>	<i>15</i>	<i>--</i>	<i>40</i>	<i>100</i>	<i>0.6</i>
PSD New or Modification?	No	No	No	No	No	No	No

District Rule 20.2 contains requirements for Best Available Control Technology (BACT), Air Quality Impact Assessment (AQIA), Prevention of Significant Deterioration (PSD) and public notification. No requirements of this rule apply; as shown in the table on the following page and sections 20.2(d)(1-2).

Table 4: New Source Review Discussion				
Rule/Requirement	Requirement	Applicability	Discussion	Condition
Applicability	Rule 20.2 applies to non-major stationary sources	Yes	This is a non-major stationary source, so Rule 20.2 applies.	NA
Type of application	New	Yes	NA	NA
Exemptions	No exemptions apply to this equipment	NA	NA	NA
20.2(d)(1) – BACT				
BACT - NO_x	Installation of BACT is required if emissions of NO _x exceed 10 lbs/day	Not triggered, no permit limit	The potential to emit for this pollutant is 0.08 lbs/day, which does not exceed this trigger level, so BACT is not required.	NA
BACT - VOC	Installation of BACT is required if emissions of VOC exceed 10 lbs/day	Not triggered, no permit limit	The potential to emit for this pollutant is 5.58 lbs/day, which does not exceed this trigger level, so BACT is not required.	NA
BACT - PM-10	Installation of BACT is required if emissions of PM-10 exceed 10 lbs/day	Not triggered, no permit limit	The potential to emit for this pollutant is 0.08 lbs/day, which does not exceed this trigger level, so BACT is not required.	NA
BACT - SO_x	Installation of BACT is required if emissions of SO _x exceed 10 lbs/day	Not triggered, no permit limit	The potential to emit for this pollutant is 0.02 lbs/day, which does not exceed this trigger level, so BACT is not required.	NA
20.2(d)(2) – AQIA				
AQIA - NO_x	Required for project emission increases in excess of 25 lbs/hr, 250 lbs/day or 40 ton/yr of NO _x calculated as NO ₂	Not Triggered	The increase in emissions of this air contaminant from this project does not exceed any of these levels, so no AQIA is required.	NA
AQIA - PM-10	Required for project emission increases in excess of 100 lbs/day or 15 ton/yr of PM-10	Not Triggered	The increase in emissions of this air contaminant from this project does not exceed any of these levels, so no AQIA is required.	NA
AQIA - SO_x	Required for project emission increases in excess	Not Triggered	The increase in emissions of this air contaminant from this project does not	NA

	of 25 lbs/hr, 250 lbs/day or 40 ton/yr of SO _x calculated as SO ₂		exceed any of these levels, so no AQIA is required.	
AQIA - CO	Required for project emission increases in excess of 100 lbs/hr, 550 lbs/day or 1000 ton/yr of CO	Not Triggered	The increase in emissions of this air contaminant from this project does not exceed any of these levels, so no AQIA is required.	NA
20.2(d)(3) - PSD	Applicable to source that may have a significant impact on a class I area	NA	Emissions from this engine do not trigger PSD requirements.	NA
20.2(d)(4) - Public Notice	Requires 30 day public notice if an AQIA was required or if increase in VOC emissions from the project exceed 250 lbs/day or 40 ton/year	NA	AQIA was not required and VOC emission increase from this project does not exceed these levels.	NA

20.2(d)(1) – BACT

No BACT limits were triggered by this engine, therefore no BACT analysis is required for this project.

20.2(d)(2) – AQIA

No AQIA limits were triggered by this engine, therefore no AQIA is required for this project.

4.3 Toxic New Source Review – Rule 1200

District Rule 1200 applies to any application that is part of a project which results in an emission increase of toxic air contaminants. The rule limits the increase in acute and chronic health hazard index (HHI) to no more than one from the project and limits the increase in cancer risk from the project to no more than one in one million if the engine is not equipped with Toxics BACT (T-BACT) or no more than ten in one million if the project meets T-BACT requirements. The following table contains an in-depth review of Rule 1200 requirements. If a refined HRA was required, the HRA report is attached.

Table 5: Rule 1200 Applicable Requirements and Discussion

Question	Answer	Discussion
Does the application result in an increase in toxic emissions?	Yes	The application results in an increase in toxic emissions of specific trace heavy metals and organics (as shown in emission calculations section).
Do any special exemptions apply to this equipment?	No	No exemptions apply to this equipment
Are there any other applications that are part of the project?	No	NA
What type of HRA was used?	De Minimis	Engine passed De Minimis with NG and LPG
Is the Project Equipped with T-BACT?	Yes	The engine is equipped with a 3-way catalyst; which is considered T-BACT for this equipment.
Cancer Risk increase (per one million)	≤ 1	Project meets standard of 10 in one million (T-BACT).
Chronic HHI	≤ 1	Meets standard of one.
Acute HHI	≤ 1	Meets standard of one.
Passes Rule 1200?	Yes	Maintenance and testing (non-emergency operation) must be limited by permit conditions to 52 hours per calendar year

De Minimis results for the application based on NG emissions and LPG emissions were conducted separately and it meets the cancer and non-cancer risk standards.

Based on this analysis, the proposed engine complies with all applicable requirements of District Rule 1200.

4.4 AB3205

Requirements in the California Health and Safety Code in sections 42301.6 through 42301.9 (a.k.a. "AB3205 requirements") specify that prior to issuing an authority to construct for sources located within 1000 feet of a K-12 school, a 30-day public notification process must be conducted.

This project is located within 1000 feet of school (The Bishop's School), so public notice is required for this section. A copy of the public notice is attached to the file and when the notice is issued, this evaluation and relevant attachments will be made available on the District's website for review. If any comments are received, they will be reviewed, considered and responded to prior to taking action on the permit including revising any requirements as necessary in response to comments received.

4.5 State and Federal Regulations.

This engine is subject to federal EPA issued National Emission Standards for Hazardous Air Pollutants (NESHAPs) and New Source Performance Standards (NSPS).

These engines are not subject to ATCM.

The NESHAP (subpart ZZZZ) requires that all new emergency engines comply with the rule by complying with the NSPS (subpart JJJJ). Applicable requirements of the NSPS include purchasing a certified engine, operating it as directed by the manufacturer, and maintaining records to substantiate compliance.

NESHAPs - 40 CFR Part 63 Subpart ZZZZ - Stationary Reciprocating Internal Combustion Engines (RICE)

§63.6590(c) requires that an affected source that is a new or reconstructed stationary RICE located at an area source to meet the requirements of 40 CFR part 60 Subpart IIII (NSPS), for compression ignition engines or 40 CFR Part 60 Subpart JJJJ (NSPS) for spark ignition engines. No further requirements apply for such engines under this part.

These engines are new RICE located at an area source and must comply with the requirements of 40 CFR Part 60 Subpart JJJJ as shown below. Therefore, it is in compliance with NESHAP requirements.

NSPS - 40 CFR Part 60 Subpart JJJJ - Standards of Performance for Stationary Spark Ignition Internal Combustion Engines.

§ 60.4230(a)(3)(iv) states that the provisions of this subpart are applicable to emergency engines that are manufactured on or after January 1, 2009.

These emergency engines were manufactured in 2016 and 2019 respectively; therefore it is subject to the requirement of this subpart.

§ 60.4233 (e) requires owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) to comply with the emission standards in Table 1 of this subpart.

Table 1 requires emergency engines rated greater than 130 HP to meet the emission standards of 2.0 g/bhp-hr of NO_x, 4.0 g/bhp-hr of CO and 1.0 g/bhp-hr for VOC.

Both engines comply with this requirement.

§ 60.4236 requires that after January 1, 2011, owners, and operators of emergency stationary SI ICE with a maximum power of greater than 19 KW (25 HP) to not install engines that do not meet the applicable emission standard requirements of § 60.4233.

Both engines meet the emission standards requirements of § 60.4233 as shown above.

§60.4243(a)(1) requires operators of a certified SI ICE that maintain the engine and control device according to the manufacturer's emission-related written instructions to keep records of conducted maintenance to demonstrate compliance.

Records keeping requirements are included in permit conditions.

§60.4243(b)(1) requires owners or operators of a stationary SI ICE that must comply with the emission standards of §60.4233 to purchase an engine certified for the same model year and demonstrating compliance according to the methods specified in this subpart. *These engines are certified for the same model year for engine family KG6208TSD and LKHXB06.2NNG.*

§60.4243(d) allows emergency stationary ICE to be operated for the purpose of maintenance checks and readiness testing recommended by federal, State or local government for up to 100 hours per year. *Permit conditions allow for testing and maintenance operation of 52 hours per year.*

§60.4243(g) stated that it is expected that air to fuel ratio controllers be used with the operation of three-way catalyst/non-selective catalytic reduction. The air to fuel ratio controller must be maintained and operated appropriately to ensure proper operation of the engine and control device to minimize emissions at all times. *These engines are equipped with an OEM 3-way catalyst and an internal electronic air to fuel ratio controller. Permit conditions will ensure maintenance and operation compliance.*

§60.4245(a) requires that owners and operators of stationary SI ICE to keep records of all notifications, maintenance, certification, compliance with the emission standard requirements if the engine is not certified. *Both engines are certified. Compliance with this requirement is verified for the engineering evaluation and is included in permit conditions.*

4.6 Title V.

This is not a Title V facility therefore this requirement does not apply.

4.7 CEQA

CEQA Guidelines §15301 exempts projects consisting of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographic features, involving negligible or no expansion of use or emissions beyond that existing at the time of the lead agency's determination. These engines qualify for this exemption

5.0 Recommendations

This equipment is expected to comply with all rules and regulations, and therefore it is recommended *(pending completion of the AB3205 noticing and comment process)* that an authority to construct/ Start-up Authorization be issued with the following conditions.

6.0 Recommended Conditions

Condition BEC APCD2020-CON-001653 with a 52 hours/year limit for non-emergency/maintenance and testing.

All relevant attachments are uploaded to BCMS under the corresponding application number.