



American Samoa Environmental Protection Agency

New Minor Emission Source Registration Form

Please submit this form to AS-EPA to determine if there is a need for a Stationary Air Pollution Source Permit.



Fill out sections A-C. Provide all of the attachments listed in Part C.

A. General Source Information

1. Company/Business Name	2. Source Name	
3. Type of Operation	4. Please circle one: Portable Source Permanent Source Temporary Source	
5. Physical Address (home base for portable sources)	6. Type of Registration: <input type="checkbox"/> Renewal <input type="checkbox"/> New	7. Unit ID No.

B. Contact Information

1. Owner Name	
2. Mailing Address	3. Email Address
4. Telephone Number	5. Facsimile Number

C. Attachments: Please include all of the following information as attachments to this form:

- Brief description of the operations
- Identification and description of all emission units and air pollution generating activities
- Identification and description of any existing air pollution control equipment and compliance monitoring devices or activities
- Type and amount of each fuel used
- Type raw materials used
- Production Rates
- Operating Schedule
- Original Equipment Manufacturer Specifications

For AS-EPA Use Only:

D. Minor Stationary Air Pollution Source Permit Determination

Does the facility require a Minor Stationary Air Pollution Source Permit Application?

- Yes No

Describe reason(s) for decision:

E. Next Steps: Based on the determination in Section D, complete the following:

If yes:

- Contact the AS-EPA Air Quality Branch to retrieve the Minor Stationary Air Pollution Source Application Packet.

If no:

- Maintain this record in your files and be prepared to provide it to inspectors upon site visits.
- Renew the registration of the equipment using this form every year and submit it to AS-EPA for their review.
- Inform AS-EPA if you plan to or have made any changes to the equipment that may change emission rates. These changes include, but are not limited to, modifications to the equipment, change in operational hours, or change in operational status.

Instruction Sheet

A registration form is required for all stationary emission sources (e.g. generators, heaters, boilers, dryers and any other equipment/machinery that combusts fuels or waste stream materials). Please see below for more information on how to fill out the registration form.

A. General Source Information

1. Company/Business Name: Name of Business or Company that owns the equipment.
2. Source Name: Type of equipment/emission source (e.g. generator, boiler, heater, rock crusher, asphalt plant, dryers or other equipment that produce air emissions)
3. Type of Operation: Identify the type of operation the emission source is used for (e.g. electricity production, asphalt production).
4. Portable Source: Circle this option if the emission source is portable (can be used in multiple locations).
Permanent Source: Circle this option if the emission source will be owned/operated by the owner permanently.
Temporary Source: Circle this option if the emission source will be owned/operated by the owner for a short period of time.
5. Physical Address: Enter the address of the emission unit's physical location.
6. Type of Registration: If the emission unit is being registered for the first time, place a check mark next to "new." If the emission unit's registration is being renewed, "place a check mark next to "renewal."
7. Emission Unit ID No.: Enter the 10 digit ID of the emission unit. **If this registration form is for a new emission unit, leave this box blank.**

B. Contact Information

1. Owner Name: Enter the full name of the individual/business entity that owns or operates the emission unit. Note: The emission unit owner is legally responsible for the emission unit's operations and compliance with all applicable regulations.
2. Mailing Address: Enter the mailing address of the emission unit owner.
3. Email Address: Enter email-address of the owner of the emission unit.
4. Telephone Number: Enter the telephone number of the owner of the emission unit.
5. Facsimile Number: Enter the fax number of the emission unit owner.

C. Attachments

1. Brief description of the operations: Provide a detailed description of the facility in terms of its primary function/business activity.
2. Identification and description of all emission units and air pollution generating activities: Provide a detailed description of all emission units at the facility. Emission units are equipment that produce air emissions.
3. Identification and description of any existing air pollution control equipment and compliance monitoring devices or activities: Provide a detailed description of all equipment installed to control the emissions of air pollutants from the emission unit.

4. Type and amount of each fuel used: Provide a description of the type of fuel used and the amount of fuel used.
5. Type raw materials used: Provide a description of items being manufactured (if applicable).
6. Production Rates: Provide a detailed description of the manufacturing processes including the production rates.
7. Operating Schedule: Provide a detailed description of the operating schedule of the emission unit.
8. Original Equipment Manufacturer Specifications: Provide the emission unit's specification sheets provided by the Original Equipment Manufacturer. These sheets provide information specific technical information on the emission unit.

D. Minor Stationary Air Pollution Source Permit Determination

1. Does the facility require a Minor Stationary Air Pollution Source Permit Application: If AS-EPA check marks the "yes" box, then you need to apply for a Minor Stationary Air Pollution Source Permit Application for the emission unit you registered. If AS-EPA checks the "no" box, then you do not need to fill out a permit application.
2. Reason for decision:

E. Next Steps

1. If AS-EPA has checked the box "yes," you will need to contact AS-EPA Air Quality Branch at 633-2304 or via email at casuallen.fale@epa.as.gov for assistance on filling out a Stationary Air Pollution Source Permit Application.
2. If AS-EPA checked the box "no," you do NOT need a Stationary Air Pollution Source Permit Application. You will need to keep the registration form in your record for a year. At the anniversary date of the initial registration, you will need to re-register the emission unit with AS-EPA. During the period in which the registration form is valid, you will need to notify AS-EPA if you make any changes to the operational status or to the emission unit.

**** A sample application is attached for your reference****



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Fill out sections A-C. Provide all of the attachments listed in Part C.

A. General Source Information

1. Company/Business Name AS-EPA	2. Source Name Power Generator
3. Type of Operation Power generation during emergencies	4. Operational Status (check all that apply): <input checked="" type="checkbox"/> Portable Source Permanent Source <input checked="" type="checkbox"/> Temporary Source
5. Physical Address (home base for portable sources) P.O. Box 123 (AS-EPA Office)	6. Type of Registration: <input type="checkbox"/> Renewal <input checked="" type="checkbox"/> New
7. Unit ID No.	

B. Contact Information

6. Owner Name AS-EPA Air Quality Branch	
7. Mailing Address P.O. Box 123 (AS-EPA Office)	8. Email Address sample@epa.as.gov
9. Telephone Number 684-633-****	10. Facsimile Number 684-633-****

C. Attachments: Please include all of the following information as attachments to this form:

- Brief description of the operations
- Identification and description of all emission units and air pollution generating activities
- Identification and description of any existing air pollution control equipment and compliance monitoring devices or activities
- Type and amount of each fuel used
- Type raw materials used
- Production Rates
- Operating Schedule
- Original Equipment Manufacturer Specifications

For AS-EPA Use Only:

D. Minor Stationary Air Pollution Source Permit Determination

Does the facility require a Minor Stationary Air Pollution Source Permit Application?
 Yes No

Describe reason(s) for decision:

E. Next Steps: Based on the determination in Section D, complete the following:

If yes:

- Contact the AS-EPA Air Quality Branch to retrieve the Minor Stationary Air Pollution Source Application Packet.

If no:

- Maintain this record in your files and be prepared to provide it to inspectors upon site visits.
- Renew the registration of the equipment using this form every year and submit it to AS-EPA for their review.
- Inform AS-EPA if you plan to or have made any changes to the equipment that may change emission rates. These changes include, but are not limited to, modifications to the equipment, change in operational hours, or change in operational status.

Section C. Attachments

Attachment 1: Description of Operations

The power for the AS-EPA building is supplied by an NES800, 200 hp generator that runs on diesel fuel from an integrated 190-gallon fuel tank if and when the primary source of power is shut off due to emergencies. Fuel usage is about 228 gallons of fuel per week, 11,400 gallons per year or approximately 60 refills per year. The TANKS Model is unable to run a rectangular fuel tank. A 3 by 5-foot cylindrical tank of 264 gallons (the minimum tank dimensions accepted by the model) was used as a surrogate in the model which is equivalent to 43 refills per year. The model was run assuming 43 refills per year to represent current usage and 86 refills per year to show emissions if usage doubled. The fuel used for the generator from the fuel tank accounts for 100 percent of the tank emissions from the fuel tank. The primary emission sources associated with the power generator are from the fuel tank and the generator.

There are no monitoring devices attached to the output of the generator stacks.

There are no raw materials used for the generator.

Operational hours: The generator is the secondary source of power generation for the AS-EPA building. The operational hours of the generator is approximately 100 hours/year.

Attachment 2: Manufacturer's Specification Sheet.

C9

200 ekW/ 250 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 3 Nonroad Equivalent Emission Standards)



Image shown may not reflect actual configuration

**C9
200 ekW/ 250 kVA
60 Hz/ 1800 rpm/ 480 V**

Metric English

Package Performance		
Genset Power Rating with Fan @ 0.8 Power Factor	200 ekW	
Genset Power Rating	250 kVA	
Aftercooler (Separate Circuit)	N/A	N/A

Fuel Consumption		
100% Load with Fan	58.2 L/hr	15.4 gal/hr
75% Load with Fan	46.6 L/hr	12.3 gal/hr
50% Load with Fan	34.9 L/hr	9.2 gal/hr
25% Load with Fan	21.4 L/hr	5.7 gal/hr

Cooling System ¹		
Engine Coolant Capacity	13.9 L	3.7 gal
Radiator Water Capacity High Temp Circuit	25 L	7 gal
Radiator Water Capacity Low Temp Circuit	N/A	N/A
Radiator Total Capacity	25 L	7 gal

Inlet Air		
Combustion Air Inlet Flow Rate	22.0 m ³ /min	775.5 cfm
Max. Allowable Combustion Air Inlet Temp	50 ° C	121 ° F

Exhaust System		
Exhaust Stack Gas Temperature	435.7 ° C	816.2 ° F
Exhaust Gas Flow Rate	53.8 m ³ /min	1898.6 cfm
Exhaust System Backpressure (Maximum Allowable)	10.0 kPa	40.0 in. water



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Heat Rejection		
Heat Rejection to Jacket Water	87 kW	4948 Btu/min
Heat Rejection to Exhaust (Total)	227 kW	12925 Btu/min
Heat Rejection to Aftercooler	58 kW	3284 Btu/min
Heat Rejection to Atmosphere from Engine	14 kW	820 Btu/min
Heat Rejection to Atmosphere from Generator	15 kW	842 Btu/min

Alternator ²	
Motor Starting Capability @ 30% Voltage Dip	543 skVA
Current	301 amps
Frame Size	LC5014H
Excitation	SE
Temperature Rise	105 ° C

Emissions (Nominal) ³		
NO _x	1281.1 mg/Nm ³	2.5 g/hp-hr
CO	149.2 mg/Nm ³	0.3 g/hp-hr
HC	44.8 mg/Nm ³	0.1 g/hp-hr
PM	17.7 mg/Nm ³	0.0 g/hp-hr

DEFINITIONS AND CONDITIONS

1. For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.
2. UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.
3. Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NO_x. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 btu/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

Applicable Codes and Standards:

AS1359, CSA C22.2 No100-04, UL142,UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22,NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative for availability.



C9

200 ekW/ 250 kVA/ 60 Hz/ 1800 rpm/ 480 V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Use Only (Tier 3 Nonroad Equivalent Emission Standards)

STANDBY:Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions

Fuel Rates are based on fuel oil of 35° API [16° C (60° F)] gravity having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 29° C (85° F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.). Additional ratings may be available for specific customer requirements, contact your Cat representative for details. For information regarding Low Sulfur fuel and Biodiesel capability, please consult your Cat dealer.

Performance No.: EM0095-03

Feature Code: C09DE46

Generator Arrangement: 4490571

Date: 12/12/2019

Source Country: U.S.

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