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GP-A Application Diesel-Electric Generating Stations

This is an application for a general operating permit for qualifying Diesel-Electric Generating Stations that contain diesel engines and auxiliary fuel burning equipment that have requested a fuel limit to avoid classification as Prevention of Significant Deterioration Major under 18 AAC 50.306.

Alaska law requires an operating permit if the stationary source has a potential to emit greater than 100 tons per year (TPY) of a regulated air contaminant.

Alaska law allows the Alaska Department of Environmental Conservation (ADEC) to issue general operating permits under AS 46.14.210 to similar types of operations. Operators prefer general operating permits because of their relative low cost as compared to stationary source specific permits.

This is an application to obtain a general operating permit for qualifying diesel-electric generating stations. To obtain a general operating permit, you must complete this application and send it to:

Alaska Department of Environmental Conservation Air Permits Program General Permit Application 555 Cordova St., Anchorage, AK 99501

You will be notified within 60 days after receipt of the application if you qualify and your application is complete. As soon as your application is complete, you will be sent the general operating permit with your letter of authorization.

Submit a Permit Administration Fee¹ with your permit application for the general operating permit fee. You will be billed an annual compliance fee as set out by 18 AAC 50.400(a)(7). In addition, you are responsible for paying emission fees. The Annual Emissions Fees are set in accordance with 18 AAC 50.410. See the GPA and GP3 fees document on ADEC's General Permits and Applications website at https://dec.alaska.gov/air/air-permit/general-permits/.

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¹ Permit application fee determined per 18 AAC 50.400(c).

Qualifying Criteria

You must answer each question by checking "Yes" or "No" next to the question.

To qualify for this permit, you must be able to answer "yes" to the following questions.

Yes	No	Question
		Is your stationary source described by SIC code 4911 or 4931 and NAICS code 221112?
		Does your stationary source use diesel-fired reciprocating internal combustion engines to produce electricity?
		Is your stationary source capable of emitting 100 TPY or more of NOx (burning 330,000 gallons or more in 12 consecutive months)?
		Will your stationary source emit less than 250 TPY of NOx (burning 825,000 gallons or less of fuel in any 12 consecutive months)?
		Do you want a limit to restrict your NOx emissions to less than 250 TPY of NOx?
		Do all of your engines subject to the requirements of 40 C.F.R. 60 Subpart IIII, other than fire pump engines, comply with the requirements for non-emergency engines?
		Do all of your engines subject to the requirements of 40 C.F.R. 63 Subpart ZZZZ comply with the requirements for non-emergency engines?
		Is the displacement of each of your engines less than 30 liters/cylinder?
		Did you obtain all required air quality control permits before building or modifying your stationary source?
		Does your stationary source comply with the State fuel burning equipment emission standards in the GPA permit?

To qualify for this permit, you must also be able to answer "no" to the following questions. ¹

Yes	No	Question
		Do you currently hold an air quality permit that includes a stationary source-specific requirement? (Contact the Department if you are unsure.)
		Does your stationary source have to limit its fuel type, quality or quantity to comply with ambient air quality standards? (Contact the Department if you are unsure.)
		Was your stationary source built in an SO ₂ special protection area after January 18, 1997? (St. Paul or Unalaska areas – See 18 AAC 50.025(c) for details.)
		Is your stationary source in an area that is accessible by the Federal Aid Highway System (FAHS)? (Communities that do not have regular, year-round, drive-on/off ferry service are not considered accessible by the FAHS.) ¹

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Yes	No	Question
		Does your stationary source contain a boiler rated at greater than 10 MMBtu/hour heat input and subject to any of 40 C.F.R. 60 Subparts D, Da, or Db?
		Does your stationary source contain a heater or boiler rated at 1.7 MMBtu/hour heat input or more that burns kerosene, No. 1 fuel oil, or No.2 fuel oil?
		Does your stationary source contain a heater or boiler rated at 0.3 MMBtu/hour heat input or more that burns used oil?
		Does your stationary source contain a storage tank subject to 40 C.F.R. 60 Subpart K, Ka, or Kb?
		Does your stationary source contain an emission unit subject to any other federal standard in 40 C.F.R. 60, 61, 62, or 63, other than a reciprocating internal combustion engine, woodstove for space heating, or an asbestos demolition/renovation project?
		Does your stationary source contain a gas turbine?
		Does your stationary source contain an incinerator?
		Does your stationary source use more than 20 percent wood waste as fuel?
		Does your stationary source contain a urea prilling tower in operation before July 1, 1972?
		Does your stationary source contain an asphalt plant?
		Does your stationary source contain a coal preparation plant?
		Does your stationary source contain a Portland Cement plant?
		Does your stationary source contain a coal-burning boiler?
		Does your stationary source contain a petroleum refinery?

Table Notes:

¹ Being accessible by the FAHS does not disqualify you from obtaining a GPA permit if you are able to answer "yes" to all of the following:

Yes	No	Question
		Is the only connection to the FAHS through the Alaska Marine Highway System (AMHS), or is the stationary RICE operation within an isolated grid in Alaska that is not connected to the statewide electrical grid referred to as the Alaska Railbelt Grid?
		Is at least 10 percent of the power generated by the stationary RICE on an annual basis used for residential purposes?
	Is the generating capacity of the area source less than 12 megawatts, or is the sta RICE used exclusively for backup power for renewable energy?	

Identification Information

Stationary Source Name
Physical Address
Mailing Address
UTM Coordinates or
Latitude/Longitude
Check the applicant's affiliation with this source:
□ Operator
Owner
Mailing Address
Operator (if different from owner)
Mailing Address
Stationary Source Contact and affiliation
Mailing Address
Telephone Number
Designated Agent
Mailing Address
Telephone Number
Responsible Official and affiliation
Mailing Address
Telephone Number
Billing Contact and affiliation
Mailing Address
Telephone Number

Emission Unit Inventory

Table 1: Emission Unit Inventory for Diesel Engines

ID Number	Manufacturer	Model	Serial Number	Date Installed	Date Manufactured ²	Engine Rating (hp)	Generator Rating (kW)

Table 2: Emission Unit Inventory for Auxiliary Fuel Burning Equipment ¹

ID Number	Emission Unit Description	Manufacturer	Model Number	Serial Number	Date Installed	Heat Input Rating (MMBtu/hr)	Fuel or Fuels

Notes:

¹ Equipment in Table 2 must be insignificant as defined in 18 AAC 50.326(d)-(i). A heater or boiler is insignificant if it has a heat input rating less than 1.7 MMBtu/hr for burning kerosene, No. 1 fuel oil, or No. 2 fuel oil or has a heat input rating less than 0.3 MMBtu/hr for burning used oil. These insignificant units do not require visible emission or particulate matter observations per Condition 14 of the GPA permit.

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²If manufactured, modified, or reconstructed after July 11, 2005, then list the latest of: a) date of Manufacture, b) Date of modification c) Date of reconstruct, 2005. Leave the date blank if there has been no change since July 11, 2005. See 40 CFR 60 Subpart IIII.

Table 3: Emission Unit Inventory for Fuel Storage Tanks

Tank ID Number	Capacity	Date Installed	Fuel Stored

Internal Combustion Engine (ICE) Categories for 40 C.F.R. 60 Subpart IIII

Under 40 C.F.R. 60.4200, the provisions of NSPS Subpart IIII are applicable to owners and operators:

- of stationary CI ICE that commence construction after July 11, 2005, where the stationary CI ICE are:
 - o Manufactured after April 1, 2006, and are not fire pump engines, or
 - o Manufactured as a certified National Fire Protection Association (NFPA) fire pump engine after July 1, 2006.
- of any stationary CI ICE that are modified or reconstructed after July 11, 2005

The provisions of 40 C.F.R. 60.4208 of NSPS Subpart IIII are applicable to all owners and operators of stationary CI ICE that commence construction after July 11, 2005.

For the purposes of NSPS Subpart IIII, the date that construction commences is the date the engine is ordered by the owner or operator.

List all engine ID numbers from Table 1 in the appropriate engine category of Table 4 or Table 5 as applicable. If an engine is installed or replaced in an off-permit change under Condition 61 of permit GPA, complete this form for the new engine(s) and submit this form with the required off-permit change notification.

Table 4: Non-emergency Engines

Engine ID Numbers	Engine Categories for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)	Applicable GPA Permit Requirements (Condition Numbers)
	Pre-2007 model year CI ICE with a displacement of less than 10 liters per cylinder	18.1, 18.2, 18.3, 18.5, 18.6, 20.1, 20.5, 21.2, 21.3, 21.5, 21.6, 22.1, 22.2, 22.3
	Pre-2007 model year CI ICE with a displacement of greater than or equal to 10 liters per cylinder and less than 30 liters per cylinder	18.1, 18.2, 18.3, 18.5, 18.6, 20.1, 20.5, 21.2, 21.3, 21.5, 21.6, 22.1, 22.2, 22.3
	2007 model year and later CI ICE with a displacement of less than 30 liters per cylinder	18.1, 18.2, 18.3, 18.5, 18.6, 19, 20.3, 20.5, 21.2, 21.4, 21.5, 21.6, 23.1, 23.3

Table 5: Emergency Engines

Engine ID Numbers	Engine Categories for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)	Applicable GPA Permit Requirements (Condition Numbers)
	Fire pump engines with a displacement of less than 30 liters per cylinder	18.1, 18.2, 18.4, 18.6, 19, 20.4, 20.5, 21.1, 21.4, 21.5, 22.1, 22.3

Reciprocating Internal Combustion Engine (RICE) Categories for 40 C.F.R. 63 Subpart ZZZZ

List all engine ID numbers from Table 1 in the appropriate engine category of Table 6. Also list new and reconstructed engines, as defined below, in Table 4 or Table 5 under Internal Combustion Engine (ICE) Categories for 40 C.F.R. 60 Subpart IIII as applicable. If an engine is installed or replaced in an off-permit change under Condition 61 of permit GPA, complete this form for the new engine(s), and the form for 40 C.F.R. 60 Subpart IIII if necessary, and submit the form(s) with the required off-permit change notification.

Table 6: All Engines

Engine ID Numbers	Engine Categories for Stationary Compression Ignition (CI) Internal Combustion Engines (ICE)	Applicable GPA Permit Requirements (Condition Numbers)
	New ¹ or reconstructed ² CI ICE	23, 24
	Existing ³ CI ICE	23, 26

Table Notes:

- A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.
- A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.
 - Reconstruction, unless otherwise defined in a relevant standard, means the replacement of components of an affected or a previously nonaffected source to such an extent that:
 - (1) The fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable new source; and
 - (2) It is technologically and economically feasible for the reconstructed source to meet the relevant standard(s) established by the Administrator (or a State) pursuant to section 112 of the Act. Upon reconstruction, an affected source, or a stationary source that becomes an affected source, is subject to relevant standards for new sources, including compliance dates, irrespective of any change in emissions of hazardous air pollutants from that source.
- For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

Other Documents Required

In addition to this application please include:

- 1. A stationary source layout sketch, drawing or overhead site image photograph that identifies each emission unit (except insignificant emission units) and control device if applicable.
- 2. A preventative maintenance plan for each diesel engines and auxiliary equipment (except insignificant emission units). The plan could be the manufacturer's recommended maintenance plan for the piece of equipment, or it could be a plan tailored to your individual stationary source.
- 3. A compliance certification, as attached.

Compliance Certification

Specify the compliance status of your stationary source by filing out the following compliance certification (this compliance certification corresponds with terms and condition of the GPA issued on March 16, 2022).

Condition	Compliance Status	Continuous/ Intermittent	Method Used to Determine Compliance
1-4, VE	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Smoke/No-smoke monitoring plan ☐ Method 9 visual observation ☐ Other (attach description & documentation)
5-8, PM	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Smoke/No-smoke monitoring plan ☐ Method 5 source test ☐ Other (attach description & documentation)
9-11, SO ₂	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Fuel grade/sulfur content records Other (attach description & documentation)
12, used oil	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Method 5 source test & fuel sulfur content records ☐ Other (attach description & documentation)
13, used oil	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Fuel grade/sulfur content records Other (attach description & documentation)
14, insignificant units	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & reported Other (attach description & documentation)
15, NOx	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Fuel Records kept ☐ Other (attach description & documentation)
16 & 17, NSPS Subpart A	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & applicable notifications submitted Other (attach description & documentation)
18-22, NSPS Subpart IIII	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & reported Other (attach description & documentation)
23-28, NESHAP Subpart ZZZZ	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & applicable reports submitted Other (attach description & documentation)
29-31, Standard Permit Conditions	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & applicable reports submitted Other (attach description & documentation)
32, admin fees	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Fees paid Fees not paid Other (attach description & documentation)
33, emission fees	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Fees paid upon billing Fees not paid Other (attach description & documentation)
34, emission fees	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Fee Form Submitted/ Form Not Submitted Other (attach description & documentation)

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Condition	Compliance Status	Continuous/ Intermittent	Method Used to Determine Compliance
35, Good Air Pollution Practice	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	Records kept Other (attach description & documentation)
36, dilution	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	units do not allow for dilution of exhaust units allow for dilution, but dilution not used during compliance tests Other (attach description & documentation)
37, fugitive dust	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept Other (attach description & documentation)
38, stack injection	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept Other (attach description & documentation)
39, air pollution	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & reported Other (attach description & documentation)
40, asbestos	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept and Reported No asbestos demolition/renovation done Other (attach description & documentation)
41, open burning	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ No burning conducted ☐ Other (attach description & documentation)
42, requested tests	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Test not requested Test requested and conducted Other (attach description & documentation)
43-45, source tests	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Test not conducted Test conducted and records kept Other (attach description & documentation)
46, Test Exemption	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Test not conducted Test conducted and records kept Other (attach description & documentation)
47-50, source tests	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Test not conducted Test conducted and reported Other (attach description & documentation)
51, records kept	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	Records kept Records not kept Other (attach description & documentation)
52, certification	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	reports are certified reports are not certified Other (attach description & documentation)
53, submittals	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	reports are submitted as directed reports are not submitted as directed Other (attach description & documentation)
54, information requests	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ No information requests ☐ Information provided timely ☐ Other (attach description & documentation)
55, excess emissions	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	No excess emissions or deviations generated Excess emissions and deviation reports filed

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Condition	Compliance Status	Continuous/ Intermittent	Method Used to Determine Compliance
56, operating reports	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	☐ January through June Report submitted timely ☐ July through December Report submitted timely
57, annual compliance	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	☐ Compliance Certification submitted to EPA and ADEC timely ☐ Compliance Certification not submitted to EPA and ADEC timely
58, emission inventory	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Emission inventory submitted ☐ Other (attach description & documentation)
59, NSPS and NESHAP Reports	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Records kept ☐ Records not kept ☐ Other (attach description & documentation)
60, Emissions Trading	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	☐ Records kept ☐ Records not kept ☐ Other (attach description & documentation)
61, off permit change	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Records kept & written notice provided Other (attach description & documentation)
62, operational flexibility	☐ In Compliance ☐Not in Compliance ☐Not Applicable	Continuous Intermittent	☐ Notification provided ☐ Other (attach description & documentation)
63, permit renewal	☐ In Compliance ☐ Not in Compliance ☐ Not Applicable	Continuous Intermittent	Renewal submitted Other (attach description & documentation)
Certification:			
Based on information and belief formed after reasonable inquiry, I certify that the statements and information in and attached to this document are true, accurate, and complete.			
Printed Name:			Title:
Responsible Of	ficial Signature:		Date:

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