

*State of New Jersey*  
**Department of Environmental Protection**  
**Air Quality Permitting**

**General Permit**  
**(GP-019)**  
**For**  
**Portable Equipment**

This General Permit (GP-019) allows for the construction, installation, reconstruction, modification and operation of:

- i. A single stand-alone portable engine used solely for mechanical work;
- ii. A single portable engine used solely for mechanical work that is connected to “Engine-Associated-Process-Equipment”. This “Engine-Associated-Process-Equipment” can either be directly driven by the portable engine, or can be indirectly driven by the electrical generating capacity of the portable engine;  
OR
- iii. A single portable engine used solely for mechanical work that is connected to both “Engine Associated Process Equipment” and “Ancillary Equipment” all operating together as a dedicated group.

All equipment included in GP-019 must be portable, as defined in Section I.

The portable engine shall be sized with a maximum rated power output of 1400 hp or less (approximately equivalent to 10 MMBTU/hr or less).

The portable equipment in GP-019 is allowed to operate at various locations throughout the State of New Jersey (statewide), in accordance with all provisions of this General Permit GP-019.

The portable equipment shall be limited up to 90-days operation per calendar year at each site. This “90-day clock” begins once the portable equipment commences operation at the site, and not when the portable equipment arrives at the site. For details, see Section III Applicability.

Each General Permit GP-019 shall include only one piece of portable equipment, or one group of dedicated equipment working together, as defined in Section I.

## **I. DEFINITIONS**

The terms used in this General Permit shall have the meanings given to them in N.J.A.C. 7:27-1 et seq., where applicable, except those listed below:

- **“Add-on Emissions Control”** means any control apparatus that is added to control potential emissions from the portable equipment and which is not integrated in the original equipment manufacturer (OEM) design. An emission control strategy using a fuel additive will be treated as an alternative diesel fuel based strategy.
- **“Ancillary Equipment”** means bulk material handling equipment including only conveyors, elevators, feeders, screeners and hoppers that operate in conjunction with the portable equipment as a dedicated group, and that are portable as defined in this section.
- **“Bio-Diesel Fuel (B5)”** means fuel used in a compression-ignition (CI) engine that is not commonly or commercially known, sold or represented by the supplier as diesel fuel No. 1-D or No. 2-D, pursuant to the specifications in ASTM Standard Specification for Diesel Fuel Oils D975-81. This includes emulsified fuels or 5 percent bio-diesel fuel (i.e. B5), allowed to be used as a combustion source in the portable engine.
- **“Co-Generation Equipment”** means equipment that simultaneously produces both electricity and useful heat from one fuel input.
- **“Engine-Associated Process Equipment”** means a piece of equipment or machinery that has the potential to emit particulate matter (PM) only or no emissions, and that is portable as defined in this section, and that is permanently attached as an integral component of the portable equipment, and is mounted on the same structural framework as the portable engine.
- **“Group”** means a set of two (2) or more pieces of ancillary equipment and/or engine-associated process equipment, all operating concurrently as a single dedicated unit and powered by a single portable engine.
- **“Indirectly Driven”** means a method of supplying electrical power from the portable engine to the engine-associated process equipment and/or ancillary equipment, where all of the following are met:
  - a) The engine-associated-process-equipment is designed and sold as an integral part of the electrical generating capacity of the portable engine;
  - b) The engine-associated-process-equipment is mounted on the same flatbed or structural framework as the portable engine, where it is permanently attached as an integrated unit;
  - c) The engine-associated-process-equipment is capable of being removed only during repair, maintenance or equipment replacement; and
  - d) The electrical generating capacity of the portable engine is designed specifically to power the engine-associated-process-equipment and/or ancillary equipment, and cannot be utilized to power any other equipment at the site.
- **“Low Sulfur Diesel”** means any liquid fuel having a sulfur content of 500 ppm or 0.05% sulfur by weight or less, and allowed to be used as a combustion source in the portable engine.
- **“Mechanical Work”** means a form of work that is produced by the engine and transferred by mechanical force, such as a pump or an air compressor.
- **“Portable”** means not attached to a permanent foundation, and is designed and capable of being carried or moved from one location to another by means of wheels, skids, carrying handles, dolly, trailer, platform, or similar device.

- **“Portable Engine”** means a spark or a compression ignited internal combustion engine (ICE) sized with a maximum rated power output of 1400 hp or less (approximately equivalent to 10 MMBTU/hr or less) and that is portable as defined in this section.
- **“Portable Equipment”** means any of the following:
  - A single stand-alone portable engine used solely for mechanical work, or
  - A single portable engine (used solely for mechanical work) connected to an engine-associated process equipment that is directly or indirectly driven by the portable engine, or
  - A single portable engine (used solely for mechanical work) connected to both the engine associated process equipment and ancillary equipment, all operating together as a dedicated group where the equipment is portable, as defined in this section, and where the engine meets the definition of portable engine as defined in this section.
- **“Reconstruction”** means the replacement of components of an existing engine or the addition of emissions exhaust controls, with the objective to decrease emissions as compared to emissions when the engine was originally built.
- **“Rental Business”** means a business that does not operate, but owns and rents or leases portable equipment registered under this General Permit to another party or person.
- **“Site”** means any location, building, structure, facility, property, land or installation where the portable equipment is operating at a given time.
- **“Soil Vapor Extraction (SVE)”** means equipment used in “*in situ*” remedial technology that reduces concentrations of volatile constituents in petroleum products adsorbed to soils in the unsaturated (vadose) zone.
- **“Ultra Low Sulfur Diesel”** means any liquid fuel having a sulfur content of 15 ppm or 0.0015% sulfur by weight or less, and allowed to be used as a combustion source in the portable engine.

## II. AUTHORITY

This General Permit is issued under the authority N.J.S.A. 26:2C-9.2. This General Permit shall allow for inspection and evaluation to assure conformance with all provisions of N.J.A.C. 7:27 et seq. An opportunity for public comment on this General Permit was provided on October 15, 2007.

## III. APPLICABILITY

This General Permit (GP-019) allows for the construction, installation, reconstruction, modification and operation of:

- i. A single stand-alone portable engine used solely for mechanical work;
- ii. A single portable engine used solely for mechanical work that is connected to “Engine-Associated-Process-Equipment”. This “Engine-Associated-Process-Equipment” can either be directly driven by the portable engine, or can be indirectly driven by the electrical generating capacity of the portable engine;  
OR
- iii. A single portable engine used solely for mechanical work that is connected to both “Engine Associated Process Equipment” and “Ancillary Equipment” all operating together as a dedicated group.

All equipment included in GP-019 must be portable, as defined in Section I of this GP-019.

The portable engine shall be sized with a maximum rated power output of 1400 hp or less (approximately equivalent to 10 MMBTU/hr or less).

The portable equipment in GP-019 is allowed to operate at various locations throughout the State of New Jersey (statewide), in accordance with all provisions of this GP-019.

There are two (2) different operation limits that apply to portable equipment in this GP-019:

First: “*Per Year Limit*” corresponding to the total annual hours of operation per calendar year. This limit is determined from the option selected by the Permittee in the options tables A through D. This limit is defined as the total hours of operation from all sites added up for each calendar year, and

Second: “*Per Site Limit*” corresponding to a maximum of 90 days of operation per calendar year at each site.

The portable equipment must comply with both limits above at all times. This means that, based on the option a Permittee selects, the portable equipment may not be allowed to operate continuously for the full 90 days at a site because doing so would exceed the *Per Year Limit* (i.e., total annual hours limit). For example, if a Permittee selects option PE-A5, the portable equipment must not exceed 650 total hours of operation per calendar year, thus would not be allowed to run continuously for the full 90-days (i.e., 2160 hours) at a site.

The portable equipment shall not operate at a single site for longer than 90 total calendar days per calendar year. This “90 day clock” begins once the Portable Equipment commences operation at the site, and not when the Portable Equipment arrives at the site. The “90 day clock” ends once the Portable Equipment is moved off-site, or up to 90 consecutive days after initial startup, whichever comes first. In other words, if the portable equipment is moved from one location to another, the “90 day clock” ends once the equipment is moved offsite, and remains suspended until it is returned to that same location, at which time the “90 day clock” resumes where it left off. In contrast, if the portable equipment is not moved from one location to another, the “90 day clock” ends no more than 90 consecutive calendar days after initial startup at that site as determined by the option selected.

Storage Allowance: A facility shall be allowed to store the portable equipment for up to 30 calendar days before initial startup at a site. In addition, a facility shall be allowed to stay at the same site to store the portable equipment for up to 30 calendar days after exhausting their “90 day clock”. This storage allowance applies only as long as the portable equipment is not operated during that time, and is just at that site for the purpose of temporary interim storage between job sites. This storage allowance is for the actual sites where the portable equipment operates, and is different from a permanent storage location (i.e.; a corporate headquarters or rental facility storage yard) where the portable equipment is never operated.

Each General Permit GP-019 shall include only one piece of portable equipment, or one group of dedicated equipment working together.

If the owner/operator of the portable equipment wants to make a change to a source which has been registered under GP-019, a new General Permit registration is required. New, additional, modified or replacement sources (even identical replacements) or change of ownership require a new General Permit registration that will supersede the existing GP-019.

Any piece of portable equipment covered by this GP-019 cannot be permitted under a pre-construction permit. If after registering the portable equipment in this GP-019 the owner/operator elects to apply for a pre-construction permit, as required in N.J.A.C. 7:27-8.2 (c), for any piece of portable equipment covered by this GP-019, then this GP-019 becomes void.

This GP-019 is applicable to a portable engine burning only the following fuels: Low sulfur diesel, ultra low sulfur diesel, gasoline, natural gas, propane, bio-diesel (B5), liquefied petroleum gas (LPG), hydrogen, ethanol, methanol, or liquefied/compressed natural gas (LNG/CNG).

#### **IV. EXCLUSIONS**

The following are not eligible for this General Permit:

1. Any equipment not meeting the applicability of Section III in this General Permit;
2. Equipment that remains at a single site for more than 90 total calendar days in a calendar year. This does not include the allowable pre and post-operation "storage allowance".
3. Soil Vapor Extraction (SVE);
4. Portable Engines burning waste fuel, residual oil, wood and any liquid fuel having a sulfur content greater than 500 ppm (or 0.05 % S by weight) or any other fuels not allowed in this General Permit;
5. Portable electric power generation equipment or Gensets;
6. Emergency Generators as defined in N.J.A.C. 7:27-19;
7. Co-generation equipment;
8. Equipment used in the processing or recycling of food waste materials, municipal or industrial sewage sludge, or any contaminated soil and/or contaminated construction wastes above the New Jersey allowed residential site cleanup standards pursuant to N.J.A.C. 7:26D-Last Revised 5/12/1999 or as supplemented or amended;
9. Any equipment that is subject to PSD regulations, Federal Maximum Achievable Control Technology standard (MACT), or National Emissions Standard for Hazardous Air Pollutants (NESHAP), or Federal New Source Performance Standard (NSPS), except for equipment units subject to 40 CFR Part 60 Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants);
10. All types of cranes;
11. Portable equipment shall not be allowed to operate at a Title V facility unless it is permitted to do so under the facility's effective Title V Permit.

#### **V. EQUIPMENT SPECIFICATIONS**

Each component of the portable equipment must be identified as follows:

1. Equipment manufacturer, model number and a unique serial number;
2. Engine model year;

3. Engine fuel type with fuel specifications (i.e., sulfur content, cetane number, etc)
4. If Option B, C or D is selected by the Permittee: diesel engine emissions certification;
5. If installed, specifications for any add-on emissions control(s) (i.e., engine particulate filter, water-spray, bag house, etc)
6. Engine maximum rated horsepower (HP).

**VI. POTENTIAL TO EMIT**

◆ The potential-to-emit (PTE) for the portable engine registered under this General Permit shall be established based on the General Permit Number that corresponds to Option A, B, C or D, as selected by the Permittee on the Registration Form.

◆ Compliance with particulate emissions from the Engine-Associated-Process-Equipment and Ancillary Equipment shall be based on visible emissions (opacity) Standards, and are not included in the PTE in the following Options Tables.

◆ The portable equipment must not exceed maximum hours of operation as selected by the Permittee from Options A, B, C or D below.

The Permittee shall choose their maximum allowable hours of operation from one of the following four Options Tables. Please note that hours of operation are limited based on engine horsepower (hp) and engine model year. Detailed instructions on how to use these Options Tables are included with the GP-019 Registration Form.

<b>OPTION A</b>															
<b>Any Model Year Diesel engine which IS <u>NOT</u> CERTIFIED<sup>1</sup> to meet applicable USEPA emission tier standards</b>															
<b>Air Contaminant Category (Tons/year)</b>															
<b>TSP</b>		<b>SOx</b>			<b>NOx</b>			<b>CO</b>			<b>THC</b>				
0.36		0.35			4.95			1.15			0.41				
<b>Maximum Hours of Operation</b>															
<b>Per calendar year for portable equipment as determined by the engine maximum horsepower (HP)</b>															
<b>Engine Maximum HP</b>	<i>Less Than or Equal to 150</i>	<i>Greater Than</i>	<b>150 HP</b>	<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>
		<i>Less Than or Equal</i>		<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>
<b>Maximum Total Hours per Calendar Year</b>	2160		1620	1080	810	650	540	465	405	360	325	295	270	250	233
<b>General Permit Number</b>	PE-A1 <input type="checkbox"/>		PE-A2 <input type="checkbox"/>	PE-A3 <input type="checkbox"/>	PE-A4 <input type="checkbox"/>	PE-A5 <input type="checkbox"/>	PE-A6 <input type="checkbox"/>	PE-A7 <input type="checkbox"/>	PE-A8 <input type="checkbox"/>	PE-A9 <input type="checkbox"/>	PE-A10 <input type="checkbox"/>	PE-A11 <input type="checkbox"/>	PE-A12 <input type="checkbox"/>	PE-A13 <input type="checkbox"/>	PE-A14 <input type="checkbox"/>

<sup>1</sup> Engine certification shall be performed in accordance with Subparts B, D and E of 40 CFR Part 89, Subpart C of 40 CFR Part 94, or Subpart C of 40 CFR Part 1039 whichever is applicable.

<b>OPTION B</b>															
<b>Any Model Year Diesel engine, including reconstructed engine, which <u>IS</u> CERTIFIED<sup>1</sup> to meet applicable USEPA emission tier standards OR Any Model Year engine, whether it is certified or not, burning Gasoline, NG, Propane, Bio-diesel (B5), LPG, Hydrogen, Ethanol, Methanol or LNG/CNG</b>															
<b>Air Contaminant Category (Tons/year)</b>															
<b>TSP</b>		<b>SOx</b>			<b>NOx</b>			<b>CO</b>			<b>THC</b>				
0.24		0.11			4.10			4.95			0.60				
<b>Maximum Hours of Operation Per calendar year for portable equipment as determined by the engine maximum horsepower (HP)</b>															
<b>Engine Maximum HP</b>	<i>Less Than or Equal to 150</i>	<i>Greater Than</i>	<b>150 HP</b>	<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>
		<i>Less Than or Equal</i>	<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>	<b>1400 HP</b>
<b>Maximum Total Hours per Calendar Year</b>	3600		2700	1800	1335	1070	890	763	670	593	534	485	445	410	381
<b>General Permit Number</b>	PE-B1 <input type="checkbox"/>		PE-B2 <input type="checkbox"/>	PE-B3 <input type="checkbox"/>	PE-B4 <input type="checkbox"/>	PE-B5 <input type="checkbox"/>	PE-B6 <input type="checkbox"/>	PE-B7 <input type="checkbox"/>	PE-B8 <input type="checkbox"/>	PE-B9 <input type="checkbox"/>	PE-B10 <input type="checkbox"/>	PE-B11 <input type="checkbox"/>	PE-B12 <input type="checkbox"/>	PE-B13 <input type="checkbox"/>	PE-B14 <input type="checkbox"/>

<sup>1</sup> Engine certification shall be performed in accordance with Subparts B, D and E of 40 CFR Part 89, Subpart C of 40 CFR Part 94, or Subpart C of 40 CFR Part 1039 whichever is applicable.



<b>OPTION C</b>															
<b>2007 through 2010 Model Year <u>Diesel</u> engine which <u>IS</u> FACTORY-CERTIFIED<sup>1</sup> to meet applicable USEPA emission tier standards</b>															
<b>Air Contaminant Category (Tons/year)</b>															
<b>TSP</b>		<b>SOx</b>			<b>NOx</b>			<b>CO</b>			<b>THC</b>				
0.36		0.35			4.95			1.15			0.41				
<b>Maximum Hours of Operation</b>															
<b>Per calendar year for portable equipment as determined by the engine maximum horsepower (HP)</b>															
<b>Engine Maximum HP</b>	<i>Less Than or Equal to 150</i>	<i>Greater Than</i>	150 HP	200 HP	300 HP	400 HP	500 HP	600 HP	700 HP	800 HP	900 HP	1000 HP	1100 HP	1200 HP	1300 HP
		<i>Less Than or Equal</i>	200 HP	300 HP	400 HP	500 HP	600 HP	700 HP	800 HP	900 HP	1000 HP	1100 HP	1200 HP	1300 HP	1400 HP
<b>Maximum Total Hours per Calendar Year</b>	8760		8725	5815	4362	3490	2910	2492	2181	1260	1134	1031	945	872	810
<b>General Permit Number</b>	PE-C1 <input type="checkbox"/>		PE-C2 <input type="checkbox"/>	PE-C3 <input type="checkbox"/>	PE-C4 <input type="checkbox"/>	PE-C5 <input type="checkbox"/>	PE-C6 <input type="checkbox"/>	PE-C7 <input type="checkbox"/>	PE-C8 <input type="checkbox"/>	PE-C9 <input type="checkbox"/>	PE-C10 <input type="checkbox"/>	PE-C11 <input type="checkbox"/>	PE-C12 <input type="checkbox"/>	PE-C13 <input type="checkbox"/>	PE-C14 <input type="checkbox"/>

<sup>1</sup> Engine certification shall be performed in accordance with Subparts B, D and E of 40 CFR Part 89, Subpart C of 40 CFR Part 94, or Subpart C of 40 CFR Part 1039 whichever is applicable.

<b>OPTION D</b>															
<b>2011 and Later Model Year Diesel engine which IS FACTORY-CERTIFIED<sup>1</sup> to meet applicable USEPA emission tier standards</b>															
<b>Air Contaminant Category (Tons/year)</b>															
			<b>TSP</b>	<b>SOx</b>	<b>NOx</b>	<b>CO</b>	<b>THC</b>								
<i>Engine less than 900 hp</i>			0.02	0.35	0.60	4.95	0.27								
<i>Engine greater than or equal to 900 hp</i>			0.15	0.35	4.95	4.95	0.60								
<b>Maximum Hours of Operation</b>															
<b>Per calendar year for portable equipment as determined by the engine maximum horsepower (HP)</b>															
<b>Engine Maximum HP</b>	<i>Less Than or Equal to 150</i>	<i>Greater Than</i>	<b>150 HP</b>	<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>
		<i>Less Than or Equal</i>	<b>200 HP</b>	<b>300 HP</b>	<b>400 HP</b>	<b>500 HP</b>	<b>600 HP</b>	<b>700 HP</b>	<b>800 HP</b>	<b>900 HP</b>	<b>1000 HP</b>	<b>1100 HP</b>	<b>1200 HP</b>	<b>1300 HP</b>	<b>1400 HP</b>
<b>Maximum Total Hours per Calendar Year</b>	8760		8725	5815	4362	3490	2910	2492	2181	1940	1745	1586	1454	1342	1246
<b>General Permit Number</b>	PE-D1 <input type="checkbox"/>		PE-D2 <input type="checkbox"/>	PE-D3 <input type="checkbox"/>	PE-D4 <input type="checkbox"/>	PE-D5 <input type="checkbox"/>	PE-D6 <input type="checkbox"/>	PE-D7 <input type="checkbox"/>	PE-D8 <input type="checkbox"/>	PE-D9 <input type="checkbox"/>	PE-D10 <input type="checkbox"/>	PE-D11 <input type="checkbox"/>	PE-D12 <input type="checkbox"/>	PE-D13 <input type="checkbox"/>	PE-D14 <input type="checkbox"/>

<sup>1</sup> Engine certification shall be performed in accordance with Subparts B, D and E of 40 CFR Part 89, Subpart C of 40 CFR Part 94, or Subpart C of 40 CFR Part 1039 whichever is applicable.

**FACILITY SPECIFIC REQUIREMENTS**

The portable equipment covered by this General Permit is subject to the applicable requirements listed on the following pages:

**COMPLIANCE PLAN: Portable Equipment**

Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
1	Permittee shall not use the portable engine in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for a period of no more than 10 consecutive seconds.  {N.J.A.C. 7:27-8}	None	None	<u>Notify by phone:</u> Upon occurrence of event, over the allowable amount, the Permittee shall immediately take corrective measures to prevent any visible emissions. If these measures fail, the Permittee shall notify the Department within 24 hours of the event, by calling the Environmental Action Hotline at (877) 927-6337.  {N.J.A.C. 7:27-8.13(d)4}
2	Permittee shall not use the engine-associated-process-equipment and/or ancillary equipment in a manner which will cause visible emissions, exclusive of visible condensed water vapor, except for a period not to exceed three (3) minutes in any consecutive 30-minute period.  {N.J.A.C. 7:27-8}	None	None	<u>Notify by phone:</u> Upon occurrence of event, over the allowable amount, the Permittee shall immediately take corrective measures to prevent any visible emissions. If these measures fail, the Permittee shall notify the Department within 24 hours of the event, by calling the Environmental Action Hotline at (877) 927-6337.  {N.J.A.C. 7:27-8.13(d)4}

Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
3	<p>The operation of the portable equipment shall not cause any air contaminant, including an air contaminant detectable by the sense of smell, to be present in the outdoor atmosphere in such quantity and duration which is, or tends to be, injurious to human health or welfare, animal or plant life or property, or would unreasonably interfere with the enjoyment of life or property, except in areas over which the owner or operator has exclusive use or occupancy.</p> <p>{N.J.A.C 7:27-5}</p>	None	None	None.
4	<p>The portable equipment shall not operate at a single site for longer than ninety (90) total calendar days per calendar year, starting from the date of initial use.</p> <p>{N.J.A.C 7:27-8}</p>	<p>Permittee shall continuously monitor the location and total days of operation of the portable equipment per site.</p> <p>{ N.J.A.C 7:27-8.13(a) }</p>	<p>Manual logging or storing of data in a computer file. For each site, Permittee shall record the following:</p> <ul style="list-style-type: none"> <li>i) Site address;</li> <li>ii) Date of arrival at the site;</li> <li>iii) Date of actual equipment start-up at the site;</li> <li>iv) Date of departure from the site;</li> <li>v) The total number of days the equipment remained on-site during that event; and</li> <li>vi) The total number of days (year-to-date) the portable equipment has remained at that site.</li> </ul> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request.</p> <p>{N.J.A.C 7:27-8.13(d)3}</p>	None.

Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
5	<p>Permittee shall comply with the hours of operation per calendar year limit, as selected on the Registration Form, based on the engine model year and maximum horsepower rating. {N.J.A.C 7:27-8.13(a)}</p>	<p>Permittee shall continuously monitor the total hours of operation of the portable equipment per calendar year and per site, using a non-resettable (totalizing) hour-meter built into the engine.  { N.J.A.C 7:27-8.13(a) }</p>	<p>Manual logging or storing data in a computer file. The Permittee shall record the following:</p> <ul style="list-style-type: none"> <li>i) Once initially, record engine maximum horsepower (hp) output rating;</li> <li>ii) Once initially, record engine model year or year of construction;</li> <li>iii) For each site, record the engine hour-meter reading upon arrival at, and upon departure from, the site.</li> <li>iv) Each month, record the engine hour meter reading and keep a running total of cumulative, year-to-date hours of operation.</li> </ul> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request.  {N.J.A.C 7:27-8.13(d)3}</p>	<p>Permittee shall report any non-compliance with the maximum hours of operation limits listed in Options A, B, C or D of this GP-019.  <u>Notify by phone:</u> Upon occurrence of event within 24 hours of the event, by calling the Environmental Action Hotline at (877) 927-6337.  {N.J.A.C. 7:27-8.13(d)4}</p>
6	<p>The portable equipment shall be operated and maintained according to manufacturer specifications. {N.J.A.C 7:27-8}</p>	None	None	None.
7	<p>Any add-on emissions control device(s) needed to achieve compliance with the Visible Emissions requirements in References #1 and/or #2 of this Compliance Plan shall be operated and maintained according to manufacturer specifications.  {N.J.A.C 7:27-8}</p>	None	<p>Manual logging or storing data in a computer file. The Permittee shall maintain records documenting the specifications of any add-on emissions control device(s) used in the portable equipment.  Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request {N.J.A.C 7:27-8.13(c)}</p>	None.

Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
8	<p>The Permittee shall keep the following information readily available <b>with the equipment</b> at all times:</p> <ul style="list-style-type: none"> <li>i) Facility ID# of the permit-holder</li> <li>ii) General Permit # covering the Portable Equipment</li> </ul> <p>In addition, Permittee shall ensure portable equipment is easily identifiable, by clear and conspicuous labeling of the following:</p> <ul style="list-style-type: none"> <li>i) Unique serial number and model number of portable engine;</li> <li>ii) Unique serial number and model number of the Engine-associated process equipment;</li> </ul> <p>The General Permit and corresponding Facility ID Number, must also be affixed on the portable equipment, on the right side, facing the front of the equipment, in letters at least 3-in height. {N.J.A.C 7:27-8}</p>	None	None	None
9	<p>The Permittee shall provide each person who rents the portable equipment registered under this GP with a written copy of the current registration program in effect and applicable requirements of this GP, including recordkeeping and notification requirements, as part of the rental agreement.  {N.J.A.C 7:27-8}</p>	None	<p>Manual logging or storing data in a computer file. If the Permittee is a rental business and designated for the purpose of renting, records for each transaction shall be maintained.</p> <p>Records shall include, but not limited to, the following:</p> <ul style="list-style-type: none"> <li>i) Written acknowledgement by each renter of the portable equipment of having received a copy of this GP;</li> <li>ii) Portable equipment registration number;</li> <li>iii) Dates the portable equipment left and returned to rental yard, and</li> <li>iv) Hours of operation for each rental period per calendar year.</li> </ul> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request {N.J.A.C 7:27-8.13(d)3}</p>	None

Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
10	<p><b>For Diesel-Fired Engines Only:</b> Any diesel fuel being fired in the portable equipment must meet one of the following:</p> <ul style="list-style-type: none"> <li>i) Cetane index of 40 or higher OR</li> <li>ii) Aromatic content of 35% v or less.</li> </ul> <p>{N.J.A.C. 7:27-8}</p>	<p>For each diesel fuel delivery received, the Permittee shall review written documentation of the delivery to ensure the fuel does meet one of the specifications for cetane index or aromatic content. Such written documentation can include, but is not limited to:</p> <ul style="list-style-type: none"> <li>i) Bill of Lading,</li> <li>ii) Delivery Invoice, and</li> <li>iii) Certificate of Analysis.</li> </ul> <p>{N.J.A.C 7:27-8.13(a)}</p>	<p>Manual logging or storing of data in a computer file.</p> <p>Once initially, and upon change of material, the Permittee shall keep records of diesel fuel cetane index or aromatic content.</p> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request.</p> <p>{N.J.A.C 7:27-8.13(d)3}</p>	None
11	<p><b>For Diesel-Fired Engines Only:</b> Any diesel fuel being fired in the portable equipment shall contain a maximum of <b>500 ppm Sulfur</b> (Low Sulfur Diesel).</p> <p><b>Starting October 1, 2010</b>, any diesel fuel being fired in the portable equipment shall contain a maximum of <b>15 ppm Sulfur</b> (Ultra Low Sulfur Diesel).</p> <p>{N.J.A.C. 7:27-8}</p>	<p>For each liquid fuel delivery received, the Permittee shall review written documentation of the delivery to ensure the maximum allowable liquid fuel sulfur content is not being exceeded. Such written documentation can include, but is not limited to:</p> <ul style="list-style-type: none"> <li>i) Bill of Lading,</li> <li>ii) Delivery Invoice, and</li> <li>iii) Certificate of Analysis.</li> </ul> <p>{N.J.A.C 7:27-8.13(a)}</p>	<p>Manual logging or storing of data in a computer file.</p> <p>Once initially, and upon change of material, the Permittee shall keep records of diesel fuel sulfur content.</p> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request.</p> <p>{N.J.A.C 7:27-8.13(d)3}</p>	None
12	<p>Upon Department request, the Permittee shall be required to perform sampling &amp; analysis of diesel fuel being used to fuel the Portable Equipment to ensure it conforms to the sulfur and cetane /aromaticity fuel requirements.</p> <p>{N.J.A.C. 7:27- 8}</p>	<p>The Permittee shall collect a split-sample of the diesel fuel while in the presence of a Department representative. Analysis of this sample shall be done by a certified laboratory at the Permittee's cost using ASTM test methods as follows:</p> <ul style="list-style-type: none"> <li>i) For sulfur, use ASTM D5453</li> <li>ii) For cetane number use ASTM D976, and</li> <li>iii) For aromaticity use ASTM D1913</li> </ul> <p>{N.J.A.C. 7:27-8.13(d)}</p>	<p>Upon occurrence of event, Permittee shall maintain records of the diesel fuel sampling &amp; analysis results.</p> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request.</p> <p>{N.J.A.C. 7:27-8.13(d)3}</p>	<p>Submit analysis results to the requesting Regional Enforcement Office within 45 days of the diesel fuel sampling event.</p> <p>{N.J.A.C. 7:27-8.13(d)4}</p>

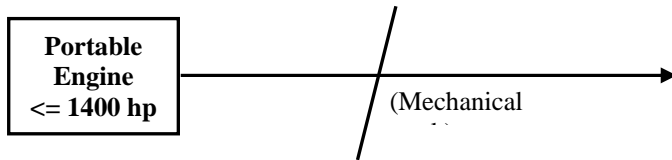
Item No.	Applicable Requirement	Monitoring Requirement	Record keeping Requirement	Submittal/Notification Action
13	<p><b>For Diesel-Fired Engines Only</b> Any portable diesel engine registered under Option B, C or D of this General Permit must be certified to meet currently in effect USEPA non-road emission tier standards.</p> <p>Emission certification procedures shall comply with: - 40 CFR 89, subparts B, D and E, or - 40 CFR 94, subpart C, or - 40 CFR 1039, subpart C, <i>Whichever is applicable.</i></p> <p>Portable diesel engines that are not certified must be registered under Option A. {N.J.A.C 7:27-8}</p>	None.	<p>Manual logging or storing of data in a computer file, once initially and upon engine modification or re-construction. The Permittee shall keep one of the following records: i) Engine manufacturer certifications; or ii) Performance test results on the registered engine, or on another engine of equivalent size and model year; or iii) Control device efficiency specifications.</p> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request. {N.J.A.C 7:27-8.13(d)3}</p>	None
14	<p>The Permittee shall provide each facility owner or site contractor where the portable equipment is in use, with the following:</p> <p>i) A copy of the approved General Permit with Registration Form; ii) A record indicating the total hours that the portable equipment operated at that site; and iii) Emissions, adjusted for actual hours of operation of the portable equipment.</p> <p>{N.J.A.C 7:27-8}</p>	<p>Permittee shall continuously monitor the total hours of operation of the portable equipment per calendar year and per site, using a non-resettable (totalizing) hour-meter built into the engine.</p> <p>{N.J.A.C. 7:27-8,13(a)}</p>	<p>Manual logging or storing of data in a computer file. The Permittee shall record for each site: i) The engine hour meter reading upon initial start-up of the portable equipment, and upon departure from the site; ii) Emissions, adjusted for actual hours of operation of the portable equipment; iii) A signed acknowledgement that the facility owner/site contractor received documentation of the Permit and the hours of operation at their site.</p> <p>The Permittee shall fill-out the Recordkeeping Form "<i>Calculation of Engine Emissions Adjusted for Actual Hours of Operation</i>" attached with this document for fulfilling requirements i), ii) and iii) above.</p> <p>Records for the current site shall be maintained on-site. All other records may be maintained at the Permittee's main offices. All records must be maintained for at least five (5) years, and be readily available to the Department upon request {N.J.A.C 7:27-8.13(d)3}</p>	<p>Prior to the portable equipment leaving the site, the Permittee shall provide a signed-copy of the Recordkeeping Form "<i>Calculation of Engine Emissions Adjusted for Actual Hours of Operation</i>" (Use Attachment 3 located at the end of this document) along with a copy of the approved GP-019 Permit and Registration Form, to the facility owner/site contractor. {N.J.A.C. 7:27-8.13(d)4}</p>
15	<p>The conditions of approval specified herein this Compliance Plan, and any conditions contained in the General Procedures for General Permits, shall be subject to enforcement {N.J.A.C. 7:27-8.13(h)}</p>	None.	None.	None.



## ATTACHMENT 1 TYPES OF PORTABLE EQUIPMENT (Covered in the GP-019)

**ITEM  
No.**

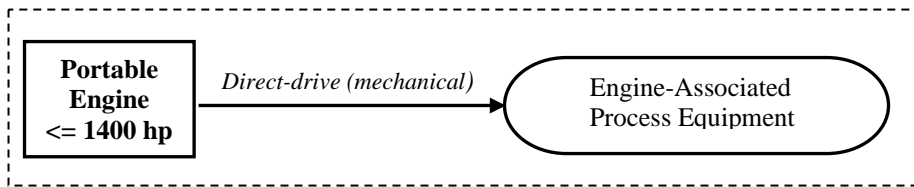
**A- Stand-alone Engine**



- Cutter
- Compressor
- Pump

**B- Directly (B-1) or Indirectly (B-2) Driven Engine-Associated Process Equipment**

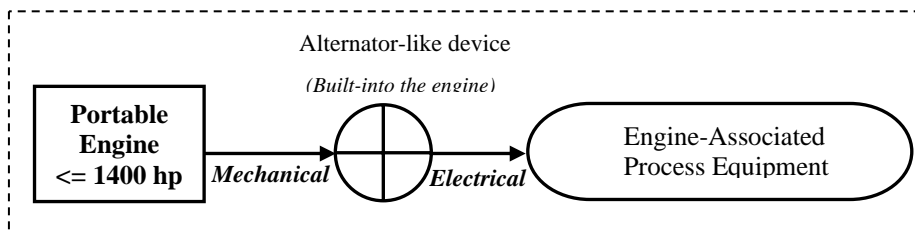
**B-1 Directly Driven**



A single engine is supplying mechanical power to run process equipment

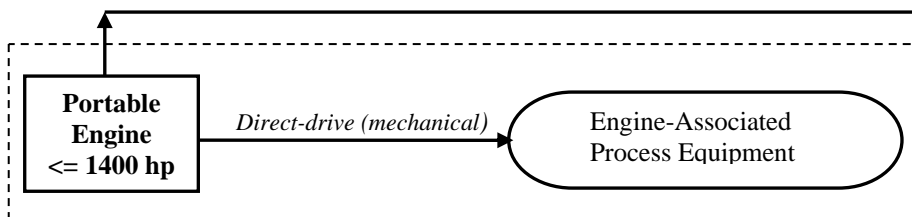
- Skid or
  - Trailer- Mounted,
  - On wheels or
  - Tracks
- (E.G.: Tub Grinder, Rock Crusher)

**B-2 Indirectly Driven**



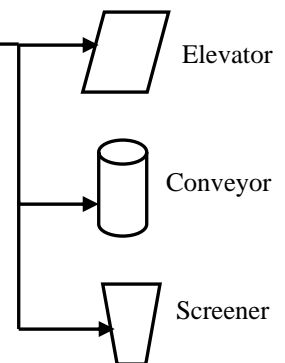
A single engine is supplying mechanical power to run process equipment through an "alternator"-like device.

**C- B-1 (above) with Ancillary Equipment (E.G.: Conveyor, Elevator)**

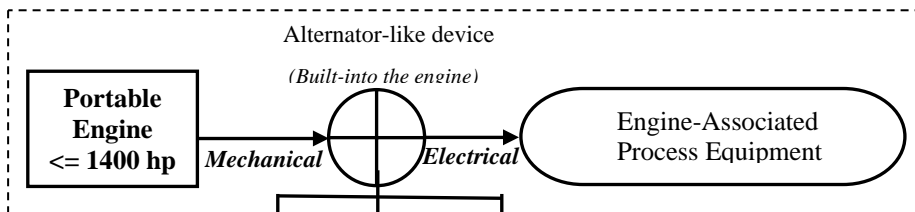


A single engine is supplying mechanical power to run process equipment and ancillary equipment

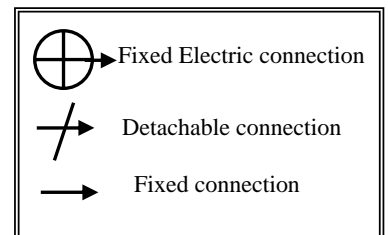
**ANCILLARY EQUIPMENT**



**D- B-2 (above) with Ancillary Equipment (E.G.: Conveyor, Elevator)**



**LEGEND**



A single engine is supplying mechanical power to run process equipment and ancillary equipment through an "alternator"-like device.

**ATTACHMENT 2**

Examples of Portable Equipment and Ancillary Equipment covered in the GP-019

---

Portable Wood Chipping and Grinding Equipment.
Portable Conveyor, Elevator, Feeder, Screener and Hopper.
Portable Rock Crushing Equipment.
Portable Tire Shredding Equipment.
Portable Equipment used at quarries and batch concrete plants.
Portable Pumps (except Fire Pumps) and Compressors.
Portable Dredging Equipment.
Portable Equipment used at Asphalt Plants.
Portable Equipment used in Recreational Activities
Portable Well Drilling Equipment

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**ATTACHMENT 3**

**NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION  
AIR QUALITY PERMITTING**

**GP-019 PORTABLE EQUIPMENT RECORDKEEPING FORM**  
*Calculation of Engine Emissions Adjusted for Actual Hours of Operation*  
*(Complete per engine for each site)*

<b>1. Permittee's Name:</b>	<b>2. Air PI No.:</b>	<b>3. General Permit No.:</b>
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**4. Location of Portable Equipment:** \_\_\_\_\_

5. General Permit Option No. Selected	6. Engine Max. HP	7. Max Allowable Annual Hrs of Operation <i>(from Options Table)</i>	8. Hour Meter Reading <i>(Upon initial startup )</i>		9. Hour Meter Reading <i>(Upon last shutdown)</i>		10. Actual Engine Hours of Operation at this site	11. Year-To- Date Engine Hrs of Operation	12. Emissions Adjusted for Actual Hours of Operation {TPY}	
			Date	Meter Display	Date	Meter Display			PM <sub>10</sub>	
										NO <sub>x</sub>
										SO <sub>x</sub>
										CO
										THC

"I certify under penalty of law that I believe the information provided in this document is true, accurate and complete. I am aware that there are significant civil and criminal penalties, including the possibility of fine or imprisonment or both, for submitting false, inaccurate or incomplete information."

<b>13. Printed Name and Signature of Permittee's Individual with Direct Knowledge :</b> _____	<b>14. Phone Number:</b> _____	<b>15. Date:</b> _____
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<b>16. Printed Name and Signature of person accepting this form:</b> _____	<b>17. Phone Number:</b> _____	<b>18. Date:</b> _____
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Revised 03/17/2008 Portable Equipment General Permit GP-019 is available at [www.nj.gov/dep/agpp](http://www.nj.gov/dep/agpp)

ATTACH ADDITIONAL SHEETS IF NECESSARY

*Submit This Form along with a copy of the approved GP-019 Permit and Registration Form to the Site Owner or the Facility where the portable equipment is located and operated.*

**GP-019 PORTABLE EQUIPMENT RECORDKEEPING FORM**  
**INSTRUCTIONS**

**Note:** This form is to be used to calculate and record actual hours of operation and emissions adjusted for actual hours of operation from portable equipment registered under the GP-019 per piece of equipment and per site.

1. *Permittee's Name* -- Legal name of entity, business, organization, agency, or private individual that holds the General Permit.
2. *Air PI No.* - Enter the Permittee's 5-digit numerical Air Program Interest #, also called Facility ID #.
3. *General Permit No.* -- Enter the number of the approved General Permit GP-019 covering the piece of portable equipment at the site. This number always begins with GEN, followed by a series of 6 numbers. For example, GEN080001. List only one General Permit per form.
4. *Location of Portable Equipment* -- Describe the location where the portable equipment is located and being operated, including the name of the site, the county, the street address and the postal zip code.
5. *General Permit Option No. Selected* -- Enter the option selected on the GP-019 General Permit Registration Form.
6. *Engine Maximum HP* -- Enter the engine maximum horsepower as reported on the GP-019 Registration Form, and as shown on the engine plate.
7. *Max allowable annual Hrs of Operation* - Enter the engine's maximum allowable hours of operation per year, as selected from the General Permit Option Tables A, B, C or D on the GP-019 Registration Form.
8. *Hour Meter Reading* -- Enter the engine hour meter reading when the portable equipment is FIRST started up & operated at the site. Also record the date (month, day, and year) that this hour meter reading is taken.
9. *Hour Meter Reading* -- Enter the engine hour meter reading when the portable equipment COMPLETES its operation at this site. **Do not** record the hour meter for each and every day of operation (i.e.; only record the hour meter twice: once when the portable equipment first starts operating at this site, and once when the portable equipment finishes operating at this site). Also record the date (month, day, and year) that this hour meter reading is taken.
10. *Actual Engine Hours of Operation at this site* -- Calculate the engine actual hours of operation at this site as follows:

**[Engine Actual Hours of Operation = Hour Meter Reading upon last shutdown minus Hour Meter Reading upon initial Startup]**

11. *Year-To-Date Engine Hrs of Operation* – **If the year-to-date engine hours of operations corresponding to the total hours that the engine has operated since the beginning of the calendar year are available enter it here. This total must be less than the figure in box No. 7.**
12. *Emissions Adjusted For Actual Hours of Operation* -- Calculate the emissions resulting from the operation of the engine at the site, repeated for each air contaminant, using the following equation and example below:

**[Actual engine hrs of operation as calculated in step#10 above]**

**[Engine Maximum Hours of Operation as selected from Option A, B, C or D, and entered in box#7 above]**

**\* Tons per year of the air contaminant corresponding to the option selected on the GP-019 Registration Form]**

**Example:** Suppose Option A is selected for an engine of a maximum HP equal to 400. The corresponding maximum hours of operation are 810 hours. For that option, the potential to emit (PTE) of each air contaminant category is<sup>1</sup>: PM<sub>10</sub> = 0.36 TPY, SO<sub>x</sub> = 0.35 TPY, NO<sub>x</sub> = 4.95 TPY, CO = 1.15 TPY and THC = 0.41 TPY. Suppose the actual hours of operation of the engine at this site, as calculated in step#10 above, is 350. Thus, the *emissions adjusted for actual hours of operation* of the portable engine for each air contaminant category for this site would be calculated as follows:

<sup>1</sup> Remember, for Options A through C, the air contaminant category TPY does not change with the engine maximum HP or Maximum Hours of Operation selected. However for Option D the air contaminant category TPY of each criteria air contaminant increases when the engine size becomes greater than or equal to 900 HP.

$PM_{10} = (350/810) * 0.36 = 0.16 \text{ TPY}$   
 $SO_x = (350/810) * 0.35 = 0.15 \text{ TPY}$   
 $NO_x = (350/810) * 4.95 = 2.14 \text{ TPY}$   
 $CO = (350/810) * 1.15 = 0.50 \text{ TPY}$  and  
 $THC = (350/810) * 0.41 = 0.18 \text{ TPY}$ .

13. *Printed Name and Signature of Permittee's Individual with Direct Knowledge* -- Enter the name and signature of the person who represents the Permittee and who has direct knowledge of the use of the portable equipment at the site, and who is certifying the information contained within this form to be true, accurate and complete.
14. *Phone Number* -- Enter the phone number of the contact person or owner/operator of the portable engine.
15. *Date* -- Enter the date this Recordkeeping Form is signed.
16. *Printed Name and Signature of person Accepting This Form* -- Enter the name and signature of the person who represents the site where the portable equipment was operated, and who is accepting this form.
17. *Phone Number* -- Enter the phone number of the person that has accepted this form.
18. *Date* -- Enter the date when this form was accepted and signed for by the person on behalf of the site where the portable equipment was operated.