

NEW General Permit-005A Emergency Generators

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Presented by –

ACE academy

New Jersey Department of Environmental Protection

Acronyms

Use the following for translation:

GP – General Permit

ULSD - Ultra Low Sulfur Distillate

PTE – Potential to Emit

ER Gen(s) – Emergency Generator(s)

BTU – British Thermal Units

MMBTU – Million British Thermal Units

PCP – Pre-construction Permit

Fed Regs – Federal Regulations

MACT – Maximum Achievable Control Technology

NSPS – New Source Performance Standards

HAPS – Hazardous Air Pollutants

BOP – Operating Permit

Mfg - Manufacturer

GP-005A Emergency Generators

1 Distillate Fuel Fired Only

2 Ultra Low Sulfur Distillate Fuel

3 Portability

4 Smart PTE

5 Federal Regulations

6 Certified Engines for Some

7 Preventative Maintenance for All

8 Emergency Use Only



1st Half Topics



2nd Half Topics

1. Distillate Fuel Fired Only

Distillate Fuels are

Diesel

Number two fuel oil (No. 2)

Kerosene

Up to 5% biodiesel blend

Natural Gas fired ER Gens

Available Now

PCP

Start application early

Future Possibility

GP for NG Fired Engines

Current GP-5 holders

Keep permit until expires

2. ULSD Fuel

Max sulfur content 15ppm

Combustion of ULSD Fuel is required immediately

Once the GP is obtained must combust ULSD Fuel.

Sub 9 schedule superseded by GP.

Exception

Existing stock of fuel can be used.

Fuel must have been purchased **BEFORE** obtaining GP.

Fuel purchase records required for proof

- Date of delivery
- Sulfur content

3. Portability

ER Gen(s) can operate at other sites in NJ

Only for emergency use.

Operation at:

Unregulated sites

Minor Facilities

Major Facilities

Emergency use only.

Comply with conditions of GP-005A.

Major Facilities also comply with BOP General Provisions

New Recordkeeping

Only for portable ER Gens:

Location where the emergency operation occurs.

4. Smart PTE

PTE in tons per year, is calculated automatically.

PTE is based on

Annual hours for testing / maintenance. (Max 100)

Max heat input of each ER Gen.

Multiple ER Gens PTE is sum of all.

This table is used to calculate the Potential to Emit totals. Each row in this table has a one-to-one matching with the Equipment Inventory table in Section D above.

Row ID	Max. Rated Heat Input (MMBTU/Hr)	*Total Hours of Testing and Maintenance per Emerg. Generator or Emerg. Fire Pump (hrs per year)	NOx (tpy)	CO (tpy)	SO2 (tpy)	PM-10 (tpy)	Total VOC (tpy)
1	1.3	1	0.0021	0.0006	0	0.0001	0.0001
2	2.1	27	0.0907	0.0241	0	0.0028	0.0026
3	4.9	32	0.2509	0.0666	0.0001	0.0078	0.0071
4	5.0	45	0.36	0.0956	0.0002	0.0113	0.0101
5	7.5	100	1.2	0.3188	0.0006	0.0375	0.0338
Totals:			1.9037	0.5057	0.0009	0.0595	0.0537



Save Application



5 Fed Regs



6 Certified Engines for SOME



7 Preventative Maint. for ALL



8 ER Use Only

5. Fed Regs

Federal Regs now included in compliance plan

MACT
ZZZZ

6 / 12 / 06



date of install

NSPS
III

must comply with fed requirements in the compliance plan

ONLY IF

you meet federal applicability

Applicability MACT Z Z Z Z

- simple
- almost everyone applicable
- *all sizes at an area HAP source*

What is an AREA HAP SOURCE?

- emit some HAPS, but not a lot
- emit <10 tpy any single HAP,
and
- emit <25 tpy of all HAPS combined

Applicability NSPS I I I I

- Complex
- Recommended: Reg Nav
- Refresh screen, no back button

ice

Question 12 of 14 ▾

Select your engine type

- Pre-2007 model year non-emergency CI ICE <10 l/cyl
- Pre-2007 model year non-emergency CI ICE 10 l/cyl ≤ displacement <30 l/cyl
- 2007 model year and later non-emergency CI ICE <30 l/cyl
- Non-emergency CI ICE ≥30 l/cyl
- Pre-2007 model year emergency CI ICE <10 l/cyl (except fire pump engines)
- Pre-2007 model year emergency CI ICE 10 l/cyl ≤ displacement <30 l/cyl (except fire pump engines)
- 2007 model year and later emergency CI ICE <30 l/cyl (except fire pump engines)
- Emergency CI ICE ≥30 l/cyl (except fire pump engines)



SUBMIT

ONE FREE PASS!

built-in federal exemption

for

◆ *Residential*

◆ *Commercial*

◆ *Institutional*

www.epa.gov/ttn/atw/icengines/docs/guidance_emergency_engine_def.pdf

CRITICAL UPDATE 4/10/14: This federal exemption applies ONLY to MACT ZZZZ. It does not apply to both nsps and mact as presented during training.

Other Links:

REG NAV:

www.epa.gov/ttn/atw/icengines/imp.html#regnav

Main federal engine website:

www.epa.gov/ttn/atw/icengines

6. Certified Engines for SOME

Some NSPS IIII engines
must be
emissions-certified
to a numerical standard

7. Preventative Maintenance for ALL



CHANGE OIL

- *every 500 hrs or per mfg whichever first*



INSPECT AIR FILTER

- *every 1000 hrs or per mfg whichever first*

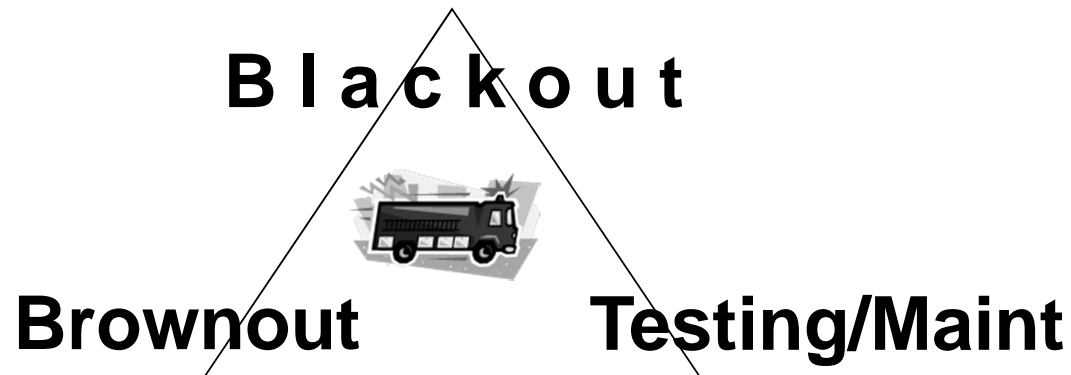


INSPECT HOSES / BELTS

- *every 1000 hrs or per mfg whichever first*

8. Emergency Use Only

- GP only for Emergency



- PCP for
 - Demand Response
 - Peak Shaving
 - Local Reliability
 - Utility Energy Assistance Program
 - etc

Have a Question?

• **Air Permitting:** (609) 292-6716

• **Air Enforcement:**

Northern Regional Office: (973) 656-4444
(Bergen, Essex, Hudson, Hunterdon, Morris, Passaic, Somerset, Sussex, Union & Warren)

Central Regional Office: (609) 292-3187
(Burlington, Mercer, Middlesex, Monmouth & Ocean)

Southern Regional Office: (856) 614-3601
(Atlantic, Camden, Cape May, Cumberland, Gloucester, & Salem)

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