NSPS, Subpart IIII Non-Emergency Generator Flow Chart

APPLICABILITY:

Manufacturers →

With a displacement less than or equal to 30 liters per cylinder where the model year is:

Engines: Manufacture model year is 2007 or later
Fire Pumps: x < 75 KW = 2011
75 KW ≤ x < 130 KW = 2010
130 KW ≤ x ≤ 560 KW = 2009
x > 560 KW = 2008

Owners and operators →

NEW:
Engines: If facility orders the engine after July 11, 2005 and is manufactured after April 1, 2006.
Fire pump: If it is manufactured as a certified National Fire Protection Association (NFPA) after July 1, 2006.

MODIFIED OR RECONSTRUCTED:
Engines and Fire Pumps: Modify or reconstruct after July 11, 2005.
There is no size limitation for either section

Exemptions: →

CI ICE being tested at a stationary CI ICE test cell/stand.

**A stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile.

**Emergency means, in the context of 9 VAC 5-80-1320 B.2 (do not exceed 500 hours of operation per year), a situation where immediate action on the part of a source is needed and where the timing of the action makes it impractical to meet the requirements of Article 6, such as a sudden loss of power, fires, earthquakes, floods, or similar occurrences.

EMISSION LIMITS:

Manufacturers NSPS, Subpart IIII

With a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

2007 and later model engines: Certify to the emission standards for new non-road CI engines in 40 CFR 89.112, 40 CFR 89.113, 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same model year and maximum engine power.

With a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

2007 – 2010 model engines:

Engine Power	Emissions in g/KW-hr (g/HP-hr)				
	NMHC+NOx	HC	NOx	CO	PM
> 560 KW (750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

2011 model and later engines: Certify to the emission standards for new non-road CI engines in 40 CFR 1039.101, 40 CFR 1039.102, 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115, as applicable, for all pollutants, for the same maximum engine power.

2007 model and later engine displacement of 10 ≤ x < 30 liters per cylinder

Certify to the emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

Owner/Operators NSPS, Subpart IIII

Pre 2007 model engines with a displacement of less than 10 liters per cylinder

Engine Power	Emissions in g/KW-hr (g/HP-hr)				
	NMHC+NOx	HC	NOx	CO	PM
< 8 KW (11 HP)	10.5 (7.8)	--	--	8.0 (6.0)	1.0 (0.75)
8 KW ≤ x < 19 KW (11 HP ≤ x < 25 HP)	9.5 (7.1)	--	--	6.6 (4.9)	0.80 (0.60)
19 KW ≤ x < 37 KW (25 HP ≤ x < 50 HP)	9.5 (7.1)	--	--	5.5 (4.1)	0.80 (0.60)
37 KW ≤ x < 130 KW (50 HP ≤ x < 175 HP)	--	--	9.2 (6.9)	--	--
130 KW ≤ x ≤ 560 KW (175 HP ≤ x ≤ 750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
> 560 KW (750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

Pre 2007 model engines with a displacement of 10 ≤ x < 30 liters per cylinder

Comply with the emission standards in 40 CFR 94.8(a)(1).

2007 model and later engines with a displacement of less than 30 liters per cylinder

Comply with the emission standards for new non-road CI engines in §60.4201 (manufacturer emission limits listed above), for their 2007 model year and later stationary CI ICE, as applicable.

With a displacement of greater than or equal to 30 liters per cylinder

(1) Reduce NO_X emissions by 90 percent or more, or limit the emissions of NO_X in the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (1.2 grams per HP-hour).
(2) Reduce PM emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

FUEL REQUIREMENTS:

Owners/Operators NSPS, Subpart IIII

Beginning October 1, 2007, engines that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a):

- Sulfur Content = 500 ppm = 0.05% weight
- Cetane index or aromatic content:
  Cetane index = 40 (minimum); OR
  Aromatic content = 35% volume (maximum)

Beginning October 1, 2010, engines with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel:

- Sulfur Content (for NR diesel fuel) = 15 ppm = 0.0015% weight
- Sulfur Content (for LM diesel fuel) = 500 ppm = 0.05% weight
- Cetane index or aromatic content:
  Cetane index = 40 (minimum); OR
  Aromatic content = 35% volume (maximum)

COMPLIANCE:

Manufacturers NSPS, Subpart IIII

With a maximum engine power less than or equal to 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

2007 and later model engines:
(1) Use certification procedures required in 40 CFR Part 89, Subpart B, or 40 CFR Part 1039, Subpart C, as applicable.
(2) Test their engines as specified in those parts.
(3) Meet the requirements of 40 CFR 1039.120 (Warranty), 1039.125 (Maintenance Instructions), 1039.130 (Installation Instructions), 1039.135 (Label and Identify), and 40 CFR Part 1068 for 40 CFR Part 1039, if applicable. Meet the corresponding provisions for 40 CFR Part 89, if applicable.

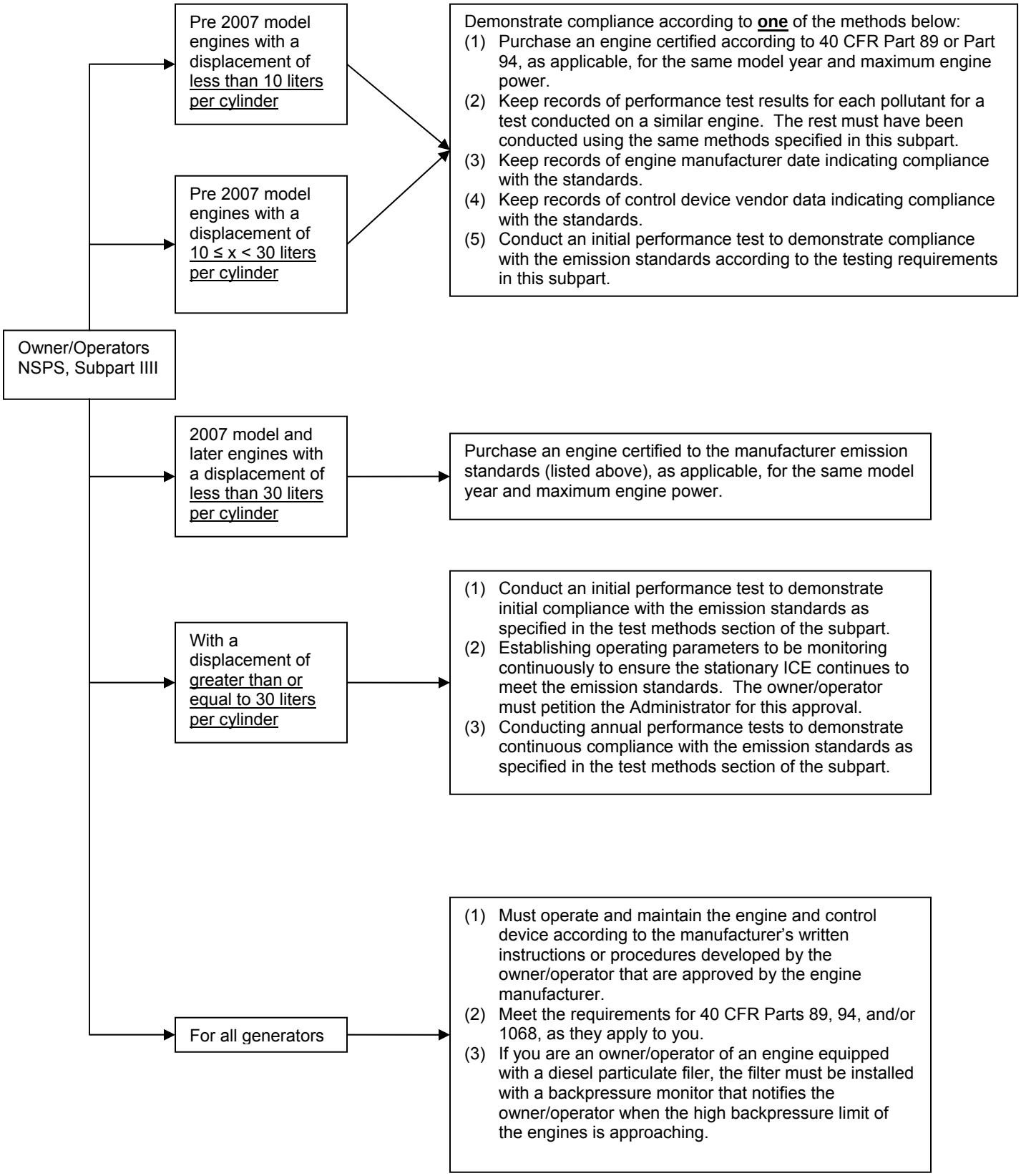
With a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

2007 – 2010 model engines:
(1) Subject to the same requirements as engines certified to the standards in 40 CFR Part 89.
(2) Meet the corresponding provisions of 1039 listed above for 40 CFR Part 89.

2011 model and later engines:
(1) Use certification procedures required in 40 CFR Part 89, Subpart B, or 40 CFR Part 1039, Subpart C, as applicable.
(2) Test their engines as specified in those parts.
(3) Meet the requirements of 40 CFR 1039.120 (Warranty), 1039.125 (Maintenance Instructions), 1039.130 (Installation Instructions), 1039.135 (Label and Identify), and 40 CFR Part 1068.

2007 model and later engine displacement of $10 \leq x < 30$ liters per cylinder

(1) Use the certification procedures required in 40 CFR Part 94, Subpart C.
(2) Test their engines as specified in 40 CFR Part 94.
(3) Meet the corresponding provisions of 1039 listed above for 40 CFR Part 94.


Owner/Operators NSPS, Subpart IIII
Pre 2007 model engines with a displacement of less than 10 liters per cylinder
Pre 2007 model engines with a displacement of 10 ≤ x < 30 liters per cylinder
Demonstrate compliance according to one of the methods below:
(1) Purchase an engine certified according to 40 CFR Part 89 or Part 94, as applicable, for the same model year and maximum engine power.
(2) Keep records of performance test results for each pollutant for a test conducted on a similar engine. The rest must have been conducted using the same methods specified in this subpart.
(3) Keep records of engine manufacturer date indicating compliance with the standards.
(4) Keep records of control device vendor data indicating compliance with the standards.
(5) Conduct an initial performance test to demonstrate compliance with the emission standards according to the testing requirements in this subpart.
2007 model and later engines with a displacement of less than 30 liters per cylinder
Purchase an engine certified to the manufacturer emission standards (listed above), as applicable, for the same model year and maximum engine power.
With a displacement of greater than or equal to 30 liters per cylinder
(1) Conduct an initial performance test to demonstrate initial compliance with the emission standards as specified in the test methods section of the subpart.
(2) Establishing operating parameters to be monitoring continuously to ensure the stationary ICE continues to meet the emission standards. The owner/operator must petition the Administrator for this approval.
(3) Conducting annual performance tests to demonstrate continuous compliance with the emission standards as specified in the test methods section of the subpart.
For all generators
(1) Must operate and maintain the engine and control device according to the manufacturer's written instructions or procedures developed by the owner/operator that are approved by the engine manufacturer.
(2) Meet the requirements for 40 CFR Parts 89, 94, and/or 1068, as they apply to you.
(3) If you are an owner/operator of an engine equipped with a diesel particulate filer, the filter must be installed with a backpressure monitor that notifies the owner/operator when the high backpressure limit of the engines is approaching.

TESTING:

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart

→

(1) Performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F.
(2) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 1039.102(g)(1), except as specified in 1039.104(d).
(3) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation:
NTE = (1.25) x (Standard)
(4) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation:
NTE = (1.25) x (Standard)

Owners and operators of stationary CI ICE with a displacement of greater than 30 liters per cylinder must conduct performance tests according to:

→

(1) Each performance test must be conducted according to the requirements in §60.8 and under specific conditions that this Subpart specifies in Table 7. The test must be conducted within 10% of 100% peak load.
(2) Cannot conduct performance tests during periods of startup, shutdown, or malfunction.
(3) Conduct 3 separate rest runs for each performance test required in this section. Each test run must last at least 1 hour.
(4) Determine compliance with the percent reduction requirement by following the requirements as specified in 40 CFR 60.4213(d)(1) through (3).

NOTIFICATION, REPORTING, AND RECORDKEEPING

Owners and operators of CI ICE:

- Greater than 2,237 KW (3,000 HP), or
- Have a displacement greater than or equal to 10 liters per cylinder, or
- Pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified

→

(1) Submit an initial notification as required in §60.7(a)(1). The notification must include:
- Name and address of the owner or operator
- Address of the affected source
- Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement
- Emission control equipment
- Fuel used

(2) Keep records of the information above and:
- All notifications and documentation submitted to comply with this subpart
- Maintenance conducted on the engine
- If is a certified engine, documentation from the manufacturer that it is certified to meet the emission standards
- If not a certified engine, documentation that the engine meets the emission standards.

(3) If is equipped with a diesel particulate filer, must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

NSPS, Subpart IIII Emergency Generator Flow Chart

APPLICABILITY:

Manufacturers →

With a displacement less than or equal to 30 liters per cylinder where the model year is:

Engines: Manufacture model year is 2007 or later
Fire Pumps: x < 75 KW = 2011
75 KW ≤ x < 130 KW = 2010
130 KW ≤ x ≤ 560 KW = 2009
x > 560 KW = 2008

Owners and operators →

NEW:
Engines: If facility orders the engine after July 11, 2005 and is manufactured after April 1, 2006.
Fire pump: If it is manufactured as a certified National Fire Protection Association (NFPA) after July 1, 2006.

MODIFIED OR RECONSTRUCTED:
Engines and Fire Pumps: Modify or reconstruct after July 11, 2005.
There is no size limitation for either section

Exemptions: →

CI ICE being tested at a stationary CI ICE test cell/stand.

**A stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile.

**Emergency means, in the context of 9 VAC 5-80-1320 B.2 (do not exceed 500 hours of operation per year), a situation where immediate action on the part of a source is needed and where the timing of the action makes it impractical to meet the requirements of Article 6, such as a sudden loss of power, fires, earthquakes, floods, or similar occurrences.

EMISSION LIMITS:

Manufacturers NSPS, Subpart IIII

With a maximum engine power less than 37 KW (50 HP) and a displacement of less than 10 liters per cylinder

2007 model engines: Certify to the emission standards for new non-road CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

2008 model and later engines: Certify to the emission standards for new non-road CI engines in 40 CFR 1039.104, 40 CFR 1039.105, 40 CFR 1039.107, and 40 CFR 1039.115.

2008 model and later engines:

Engine Power	Emissions in g/KW-hr (g/HP-hr)		
	NMHC+NOx	CO	PM
< 8 KW (11 HP)	7.5 (5.6)	8.0 (6.0)	0.40 (0.30)
8 KW ≤ x < 19 KW (11 HP ≤ x < 25 HP)	7.5 (5.6)	6.6 (4.9)	0.40 (0.30)
19 KW ≤ x < 37 KW (25 HP ≤ x < 50 HP)	7.5 (5.6)	5.5 (4.1)	0.30 (0.22)

**NMHC = VOC

With a maximum engine power 37 KW ≤ x ≤ 2,237 KW (50 HP ≤ x <3,000 HP) and a displacement of less than 10 liters per cylinder

2007 model and later engines: Certify to the emission standards for new non-road CI engines for the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

With a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

2007 – 2010 model engines:

Engine Power	Emissions in g/KW-hr (g/HP-hr)				
	NMHC+NOx	HC	NOx	CO	PM
37 KW ≤ x < 130 KW (50 HP ≤ x < 175 HP)	--	--	9.2 (6.9)	--	--
130 KW ≤ x ≤ 560 KW (175 HP ≤ x ≤ 750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
> 560 KW (750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

2011 model and later engines: Certify to the emission standards for new non-road CI engines for engines of the same model year and maximum engine power in 40 CFR 89.112 and 40 CFR 89.113 for all pollutants.

2007 model and later engine displacement of 10 ≤ x < 30 liters per cylinder

Certify to the emission standards for new marine CI engines in 40 CFR 94.8, as applicable, for all pollutants, for the same displacement and maximum engine power.

Owner/Operators NSPS, Subpart IIII

Pre 2007 model engines with a displacement of <u>less than 10 liters per cylinder</u>

Engine Power	Emissions in g/KW-hr (g/HP-hr)				
	NMHC+NOx	HC	NOx	CO	PM
< 8 KW (11 HP)	10.5 (7.8)	--	--	8.0 (6.0)	1.0 (0.75)
8 KW ≤ x < 19 KW (11 HP ≤ x < 25 HP)	9.5 (7.1)	--	--	6.6 (4.9)	0.80 (0.60)
19 KW ≤ x < 37 KW (25 HP ≤ x < 50 HP)	9.5 (7.1)	--	--	5.5 (4.1)	0.80 (0.60)
37 KW ≤ x < 130 KW (50 HP ≤ x < 175 HP)	--	--	9.2 (6.9)	--	--
130 KW ≤ x ≤ 560 KW (175 HP ≤ x ≤ 750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)
> 560 KW (750 HP)	--	1.3 (1.0)	9.2 (6.9)	11.4 (8.5)	0.54 (0.40)

2007 model and later engines with a displacement of <u>less than 30 liters per cylinder</u>

Comply with the emission standards for new non-road CI engines in §60.4202 (manufacturer emission limits listed above), for all pollutants, for the same model year and maximum engine power.

With a displacement of <u>greater than or equal to 30 liters per cylinder</u>

(1) Reduce NO_X emissions by 90 percent or more, or limit the emissions of NO_X in the stationary CI internal combustion engine exhaust to 1.6 grams per KW-hour (1.2 grams per HP-hour).
(2) Reduce PM emissions by 60 percent or more, or limit the emissions of PM in the stationary CI internal combustion engine exhaust to 0.15 g/KW-hr (0.11 g/HP-hr).

FUEL REQUIREMENTS:

Owners/Operators NSPS, Subpart IIII

Beginning October 1, 2007, engines that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(a):

- Sulfur Content = 500 ppm = 0.05% weight
- Cetane index or aromatic content:
  Cetane index = 40 (minimum); OR
  Aromatic content = 35% volume (maximum)

Beginning October 1, 2010, engines with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel:

- Sulfur Content (for NR diesel fuel) = 15 ppm = 0.0015% weight
- Sulfur Content (for LM diesel fuel) = 500 ppm = 0.05% weight
- Cetane index or aromatic content:
  Cetane index = 40 (minimum); OR
  Aromatic content = 35% volume (maximum)

COMPLIANCE:

Manufacturers NSPS, Subpart IIII

With a maximum engine power less than 37 KW (50 HP) and a displacement of less than 10 liters per cylinder

With a maximum engine power 37 KW ≤ x ≤ 2,237 KW (50 HP ≤ x <3,000 HP) and a displacement of less than 10 liters per cylinder

With a maximum engine power greater than 2,237 KW (3,000 HP) and a displacement of less than 10 liters per cylinder

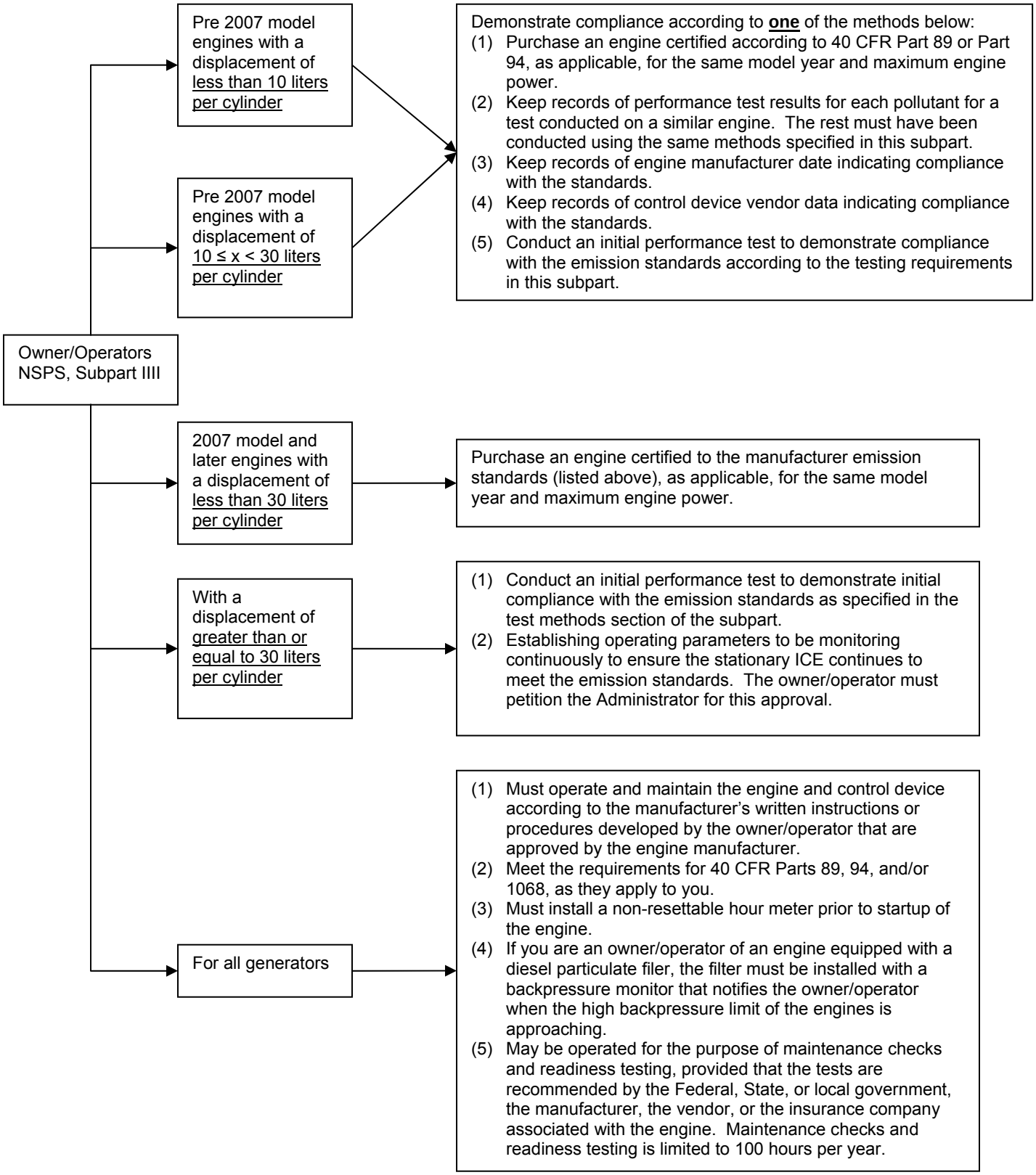
2007 model and later engine displacement of 10 ≤ x < 30 liters per cylinder

2007 model engines:
(1) Use certification procedures required in 40 CFR Part 89, Subpart B.
(2) Test their engines as specified in 40 CFR Part 89.
(3) Meet the corresponding provisions of 1039 listed below for 40 CFR Part 89.

2008 and later model engines:
(1) Use certification procedures required in 40 CFR Part 1039, Subpart C.
(2) Test their engines as specified in those parts.
(3) Meet the requirements of 40 CFR 1039.120 (Warranty), 1039.125 (Maintenance Instructions), 1039.130 (Installation Instructions), 1039.135 (Label and Identify), and 40 CFR Part 1068 for 40 CFR Part 1039, if applicable. Meet the corresponding provisions for 40 CFR Part 89, if applicable.

2007 and later model engines:
(1) Use certification procedures required in 40 CFR Part 89, Subpart B.
(2) Test their engines as specified in 40 CFR Part 89.
(3) Meet the corresponding provisions of 1039 listed above for 40 CFR Part 89.

(1) Use the certification procedures required in 40 CFR Part 94, Subpart C.
(2) Test their engines as specified in 40 CFR Part 94.
(3) Meet the corresponding provisions of 1039 listed above for 40 CFR Part 94.


Owner/Operators NSPS, Subpart IIII
Pre 2007 model engines with a displacement of less than 10 liters per cylinder
Pre 2007 model engines with a displacement of 10 ≤ x < 30 liters per cylinder
Demonstrate compliance according to **one** of the methods below:
(1) Purchase an engine certified according to 40 CFR Part 89 or Part 94, as applicable, for the same model year and maximum engine power.
(2) Keep records of performance test results for each pollutant for a test conducted on a similar engine. The rest must have been conducted using the same methods specified in this subpart.
(3) Keep records of engine manufacturer date indicating compliance with the standards.
(4) Keep records of control device vendor data indicating compliance with the standards.
(5) Conduct an initial performance test to demonstrate compliance with the emission standards according to the testing requirements in this subpart.
2007 model and later engines with a displacement of less than 30 liters per cylinder
Purchase an engine certified to the manufacturer emission standards (listed above), as applicable, for the same model year and maximum engine power.
With a displacement of greater than or equal to 30 liters per cylinder
(1) Conduct an initial performance test to demonstrate initial compliance with the emission standards as specified in the test methods section of the subpart.
(2) Establishing operating parameters to be monitoring continuously to ensure the stationary ICE continues to meet the emission standards. The owner/operator must petition the Administrator for this approval.
For all generators
(1) Must operate and maintain the engine and control device according to the manufacturer's written instructions or procedures developed by the owner/operator that are approved by the engine manufacturer.
(2) Meet the requirements for 40 CFR Parts 89, 94, and/or 1068, as they apply to you.
(3) Must install a non-resettable hour meter prior to startup of the engine.
(4) If you are an owner/operator of an engine equipped with a diesel particulate filer, the filter must be installed with a backpressure monitor that notifies the owner/operator when the high backpressure limit of the engines is approaching.
(5) May be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the Federal, State, or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing is limited to 100 hours per year.

TESTING:

Owners and operators of stationary CI ICE with a displacement of less than 30 liters per cylinder who conduct performance tests pursuant to this subpart

→

(1) Performance test must be conducted according to the in-use testing procedures in 40 CFR Part 1039, Subpart F.
(2) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR Part 1039 must not exceed the not-to-exceed (NTE) standards for the same model year and maximum engine power as required in 40 CFR 1039.101(e) and 1039.102(g)(1), except as specified in 1039.104(d).
(3) Exhaust emissions from stationary CI ICE that are complying with the emission standards for new CI engines in 40 CFR 89.112 or 94.8, as applicable, must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation:
NTE = (1.25) x (Standard)
(4) Exhaust emissions from stationary CI ICE that are complying with the emission standards for pre-2007 model year engines must not exceed the NTE numerical requirements, rounded to the same number of decimal places as the applicable standard, determined from the following equation:
NTE = (1.25) x (Standard)

Owners and operators of stationary CI ICE with a displacement of greater than 30 liters per cylinder must conduct performance tests according to:

→

(1) Each performance test must be conducted according to the requirements in §60.8 and under specific conditions that this Subpart specifies in Table 7. The test must be conducted within 10% of 100% peak load.
(2) Cannot conduct performance tests during periods of startup, shutdown, or malfunction.
(3) Conduct 3 separate rest runs for each performance test required in this section. Each test run must last at least 1 hour.
(4) Determine compliance with the percent reduction requirement by following the requirements as specified in 40 CFR 60.4213(d)(1) through (3).

NOTIFICATION, REPORTING, AND RECORDKEEPING

Owners and operators of CI ICE:

- Greater than 2,237 KW (3,000 HP), or
- Have a displacement greater than or equal to 10 liters per cylinder, or
- Pre-2007 model year engines that are greater than 130 KW (175 HP) and not certified

→

(1) Keep records of:
- Name and address of the owner or operator
- Address of the affected source
- Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement
- Emission control equipment
- Fuel used
- All notifications and documentation submitted to comply with this subpart
- Maintenance conducted on the engine
- If is a certified engine, documentation from the manufacturer that it is certified to meet the emission standards
- If not a certified engine, documentation that the engine meets the emission standards.

(2) Starting with the model years below:

2013: 19 KW ≤ x < 56 KW (25 HP ≤ x < 75 HP)
2012: 56 KW ≤ x < 130 KW (75 HP ≤ x < 175 HP)
2011: x ≥ 130 KW (x ≥ 175 HP)

The owner/operator must keep records of the operation of the engines in emergency and non-emergency service that are recorded through the non-resettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

(3) If is equipped with a diesel particulate filer, must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.