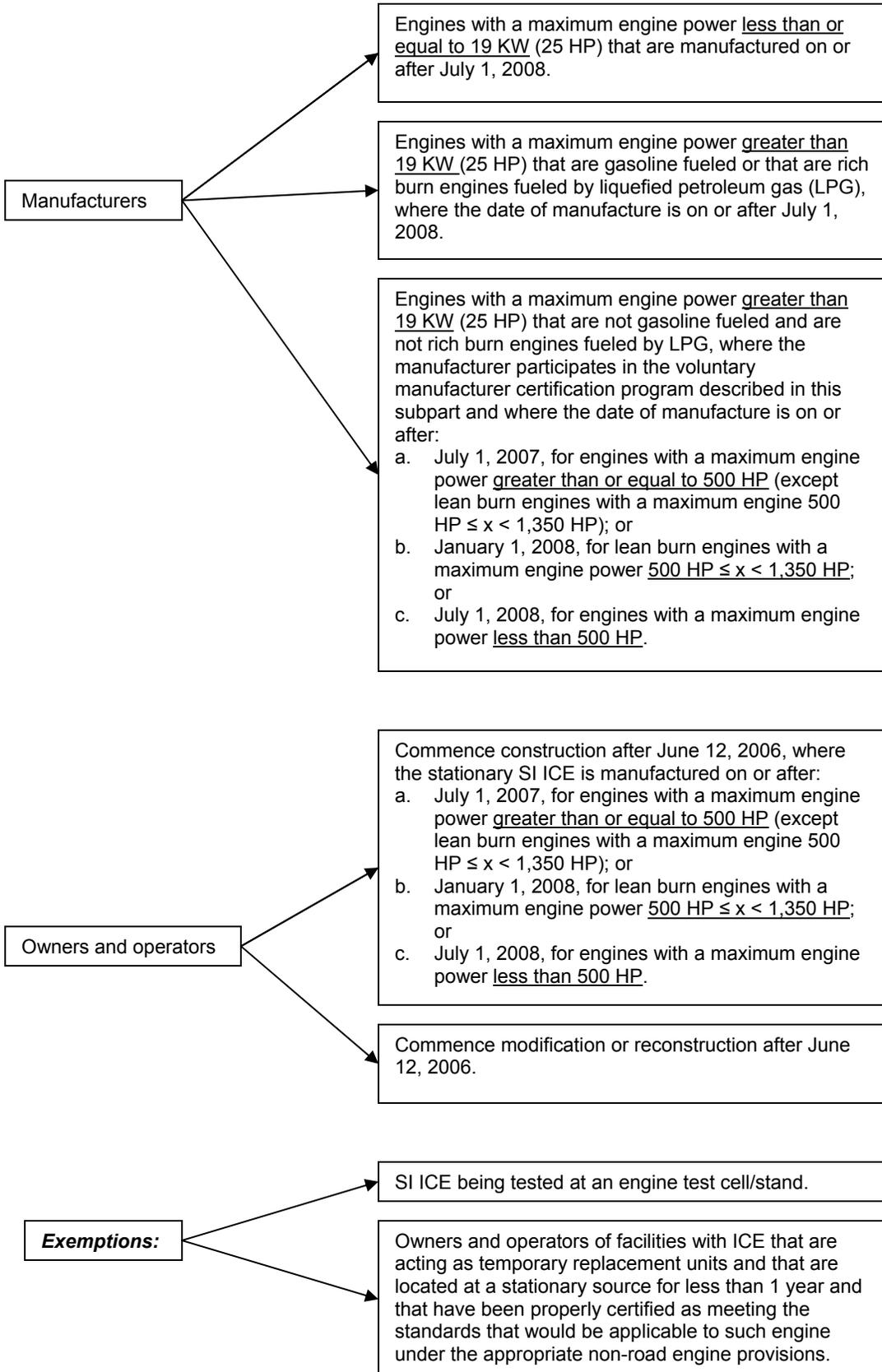
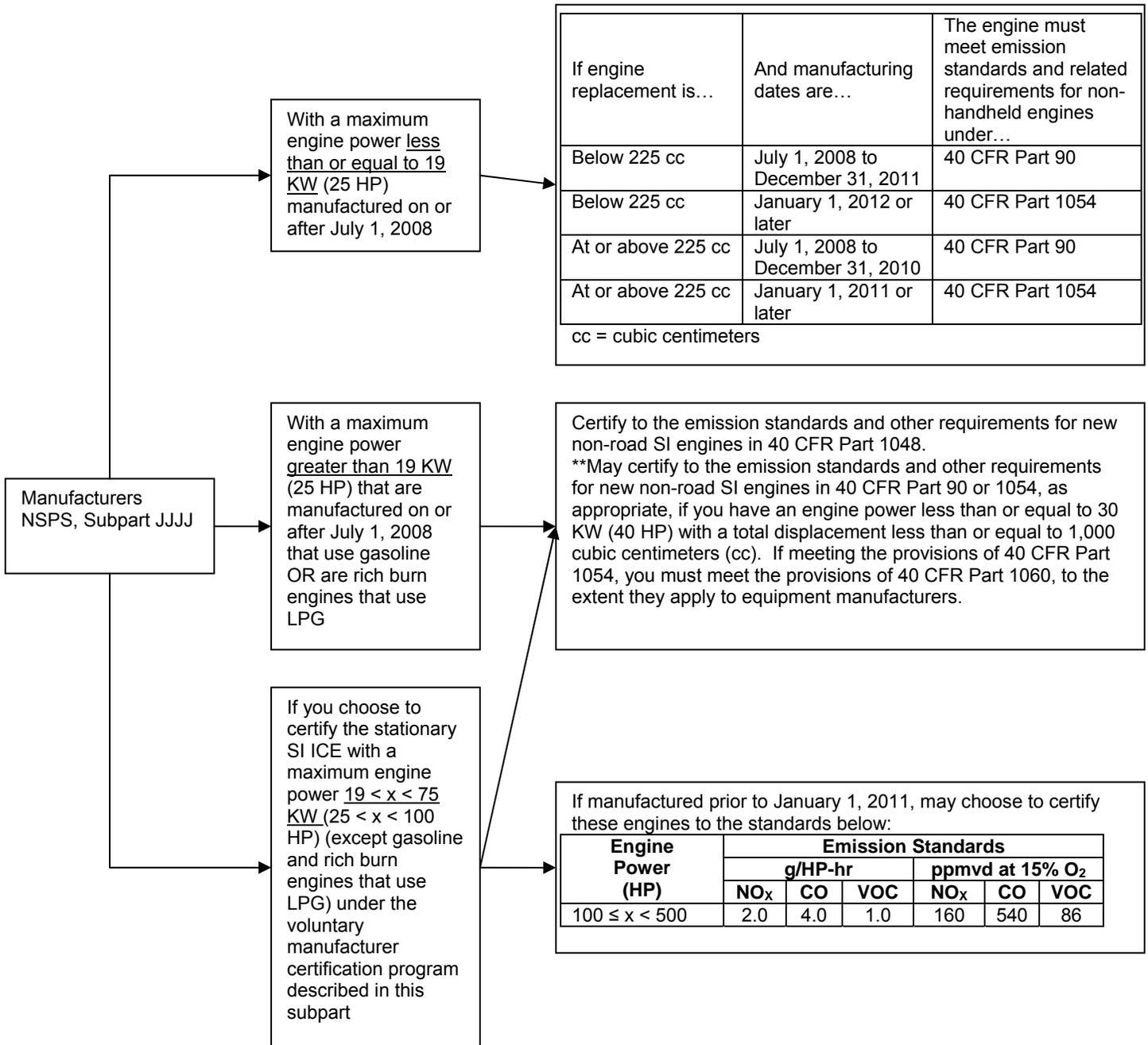


# NSPS, Subpart JJJJ Non-Emergency Generator Flow Chart

## APPLICABILITY:



EMISSION LIMITS:



Manufacturers  
 NSPS, Subpart JJJJ  
 (continued)

If you choose to certify the stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) under the voluntary manufacturer certification program described in this subpart

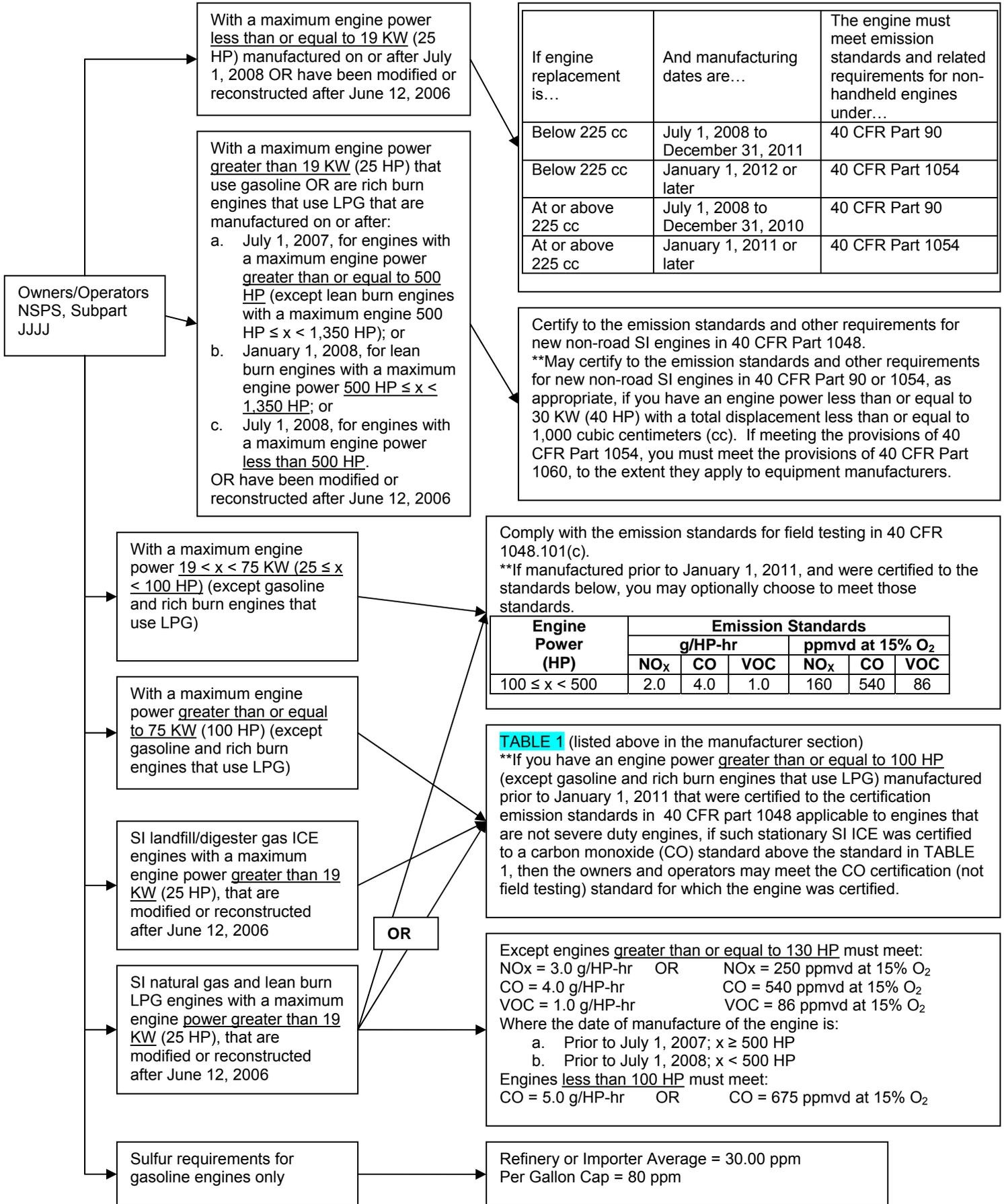
**TABLE 1:**

Manufacture Date	Emission Standards					
	g/HP-hr			ppmvd at 15% O <sub>2</sub>		
	NO <sub>x</sub>	CO	VOC	NO <sub>x</sub>	CO	VOC
<b>SI Natural Gas and SI Lean Burn LPG: 100 ≤ x &lt; 500 HP</b>						
7/1/2008	2.0	4.0	1.0	160	540	86
1/1/2011	1.0	2.0	0.7	82	270	60
<b>SI Lean Burn Natural Gas and LPG: 500 ≤ x &lt; 1350 HP</b>						
1/1/2008	2.0	4.0	1.0	160	540	86
7/1/2010	1.0	2.0	0.7	82	270	60
<b>SI Natural Gas and SI Lean Burn LPG: x ≥ 500 HP (except Lean Burn 500 ≤ x &lt; 1350):</b>						
7/1/2007	2.0	4.0	1.0	160	540	86
7/1/2010	1.0	2.0	0.7	82	270	60
<b>Landfill/Digester Gas: x &lt; 500 HP (except Lean Burn 500 ≤ x &lt; 1350 HP):</b>						
7/1/2008	3.0	5.0	1.0	220	610	80
1/1/2011	2.0	5.0	1.0	150	610	80
<b>Landfill/Digester Gas: x ≥ 500 HP (except Lean Burn 500 ≤ x &lt; 1350 HP):</b>						
7/1/2007	3.0	5.0	1.0	220	610	80
7/1/2010	2.0	5.0	1.0	150	610	80
<b>Landfill Gas/Digester Lean Burn (500 ≤ x &lt; 1350 HP):</b>						
1/1/2008	3.0	5.0	1.0	220	610	80
7/1/2010	2.0	5.0	1.0	150	610	80

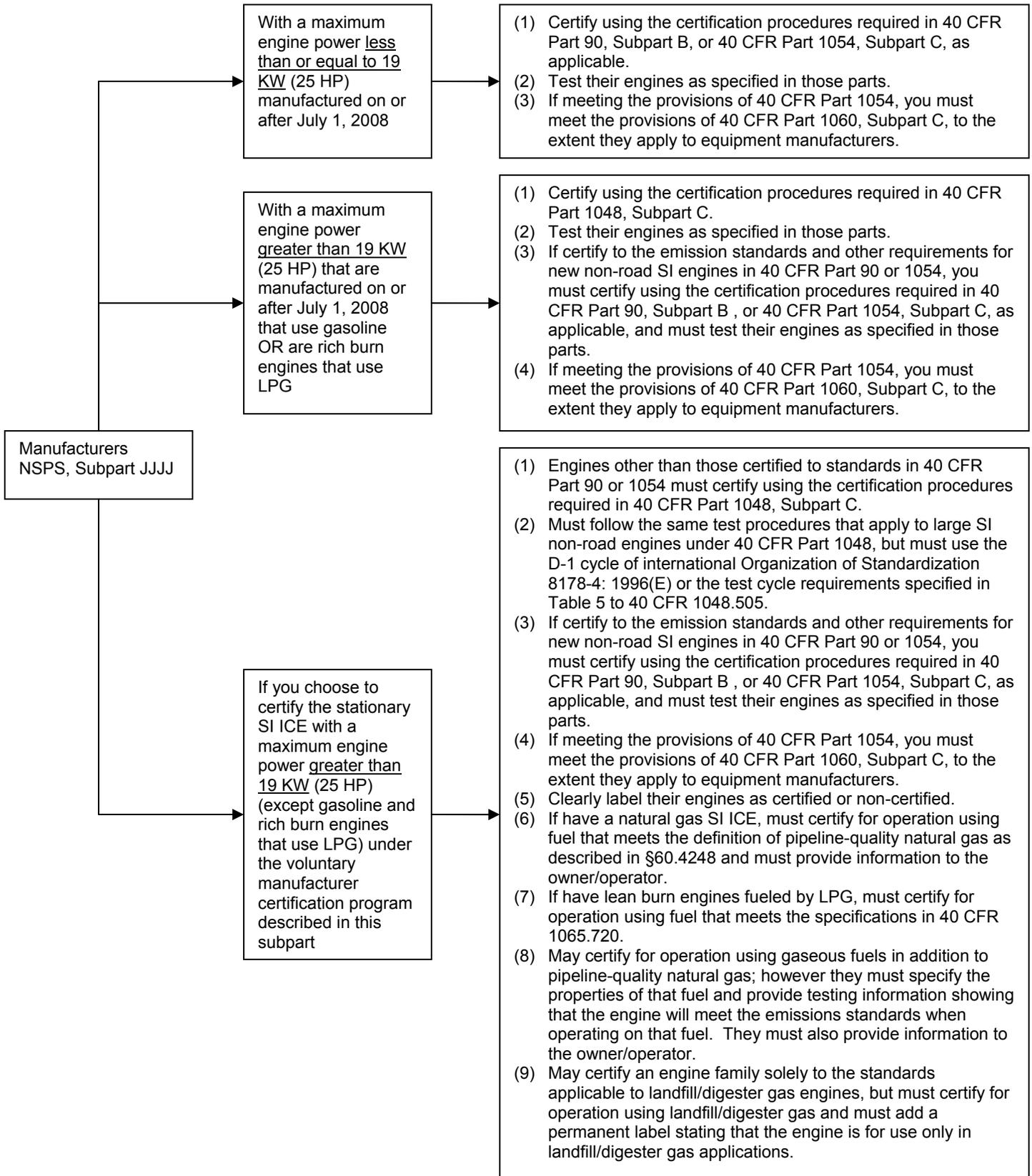
\*\*May certify to the emission standards for new nonroad SI engines in 40 CFR part 1048 if you have a lean burn engine that uses LPG.

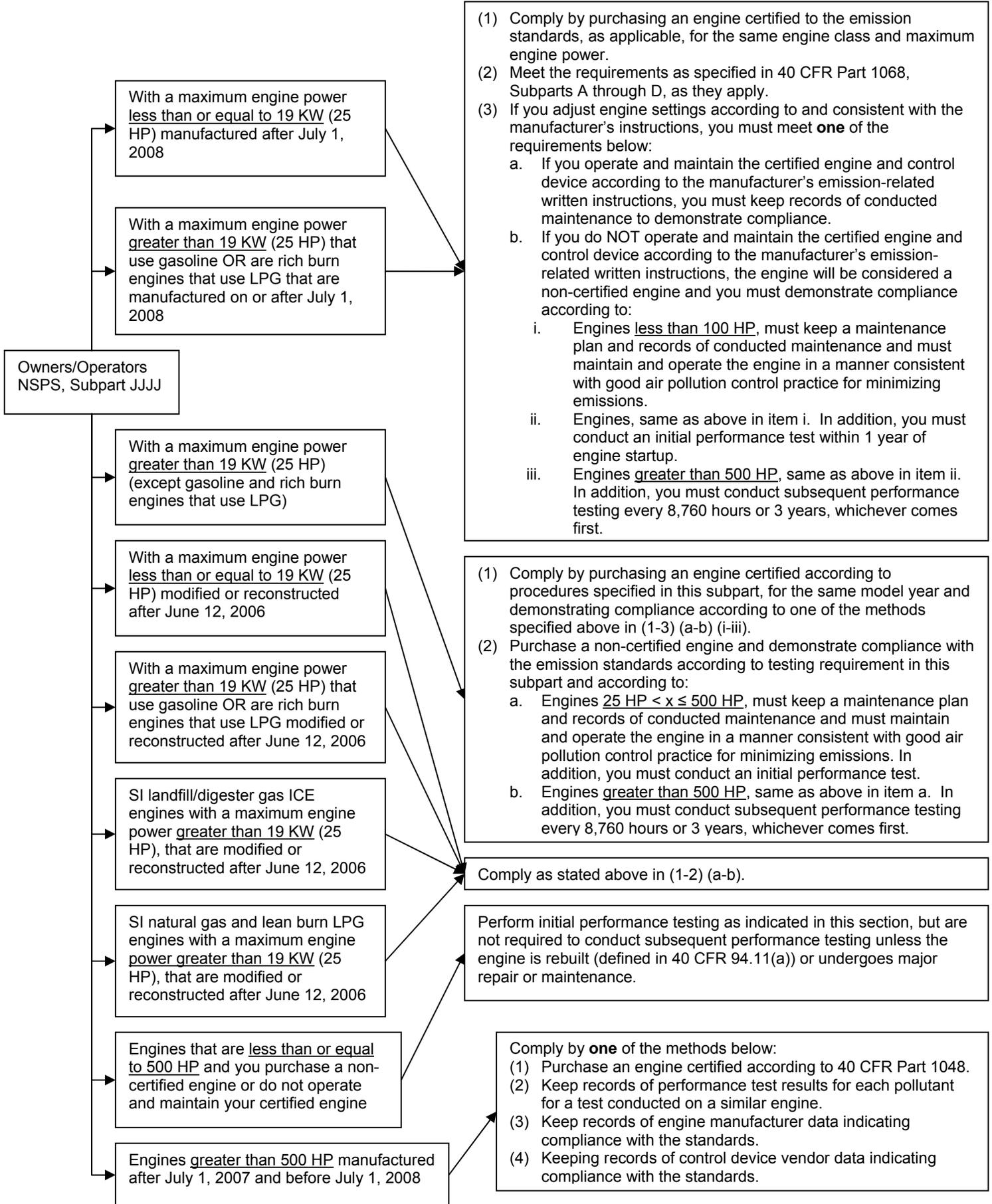
\*\*May certify to the emission standards for new nonroad SI engines in 40 CFR part 1048 applicable to engines that are not severe duty engines if you have an engine:

- a. 75 ≤ x < 373 KW (100 < x < 500 HP) manufactured prior to January 1, 2011; or
- b. x ≥ 373 KW (500 HP) manufactured prior to July 1, 2010.

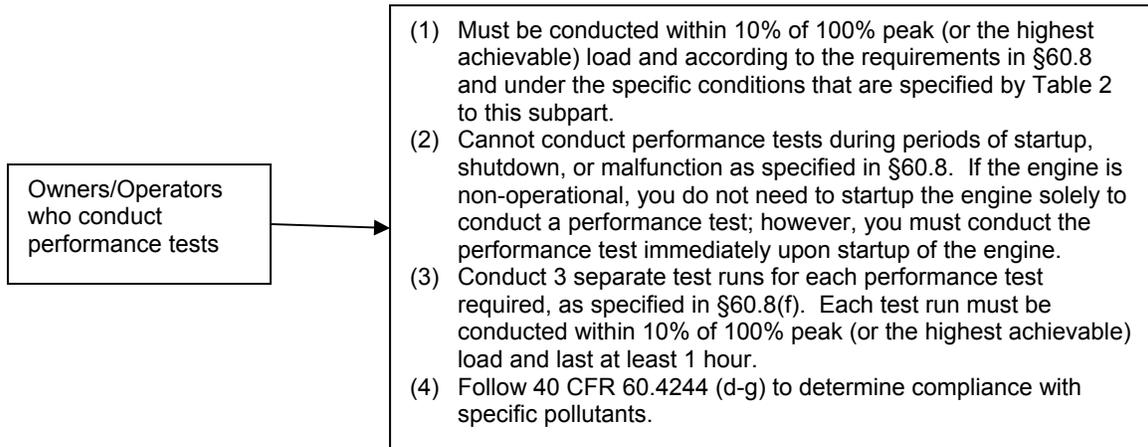


COMPLIANCE:

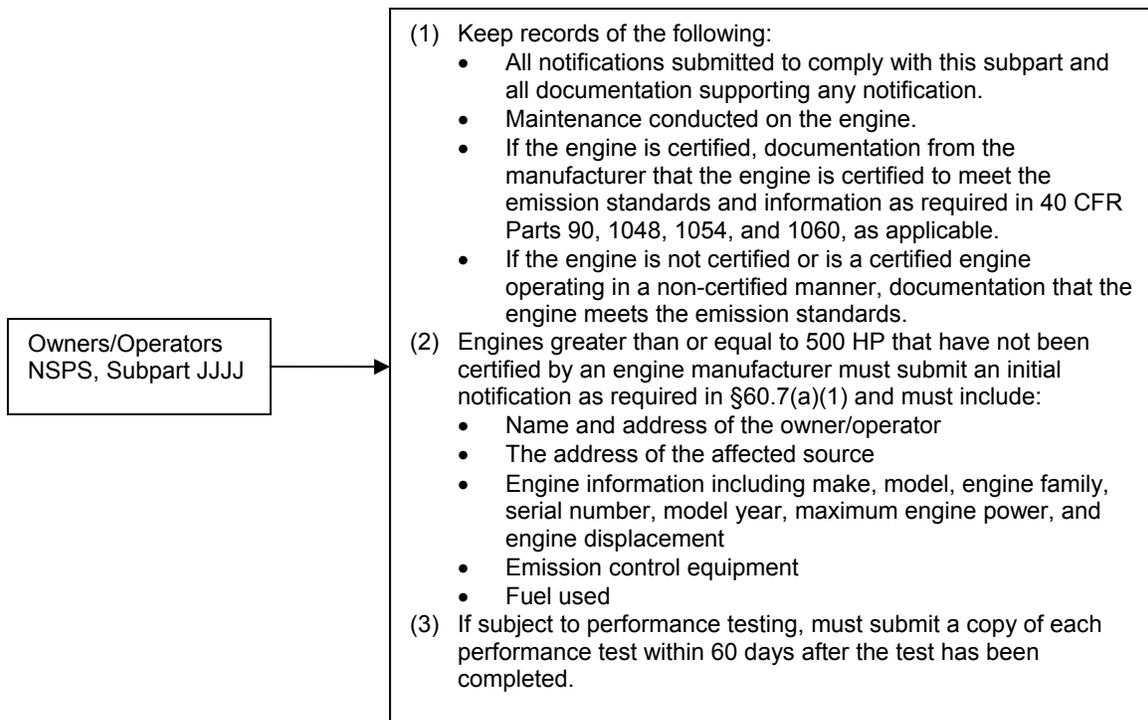




TESTING:

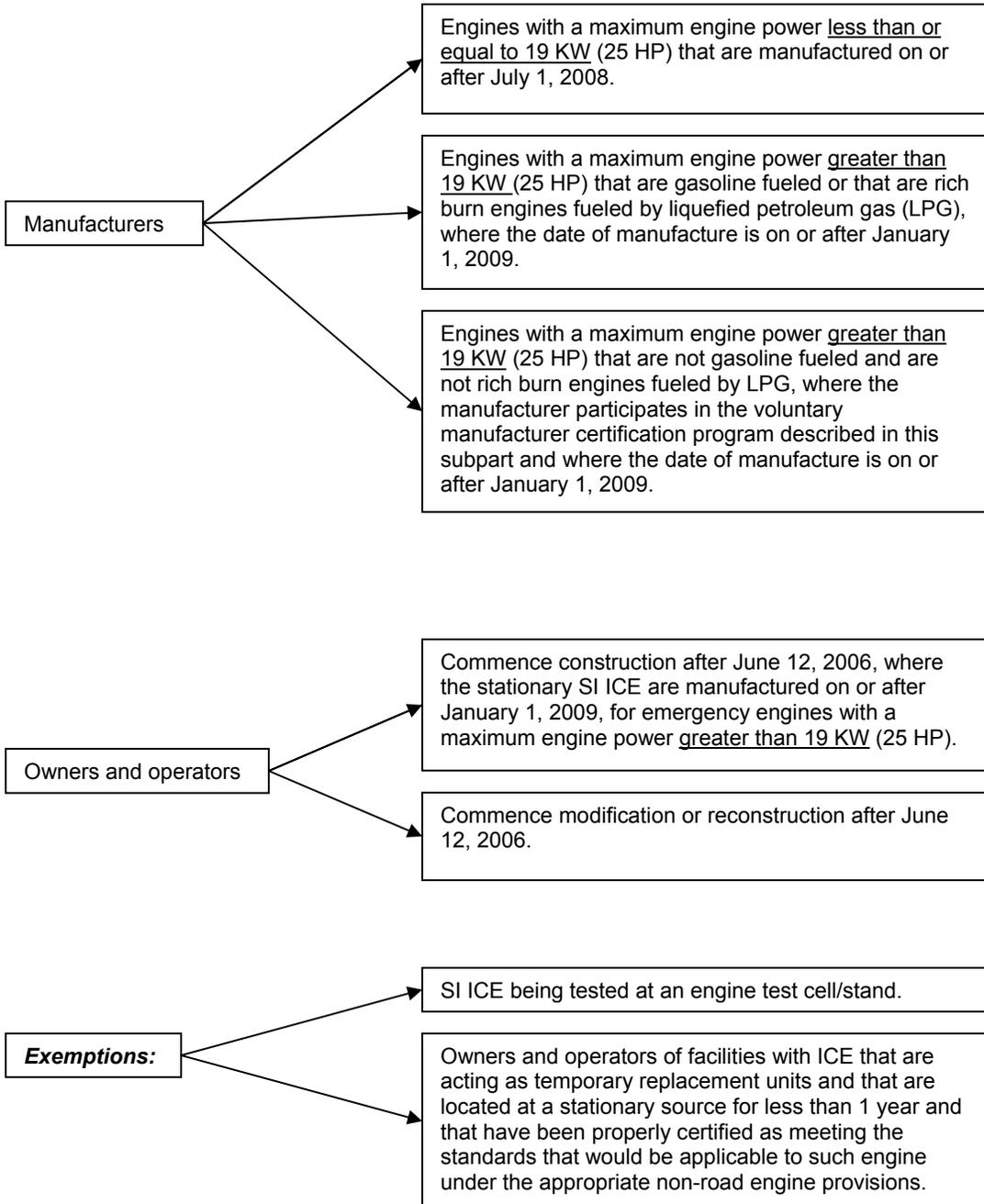


NOTIFICATION, REPORTING, AND RECORDKEEPING:

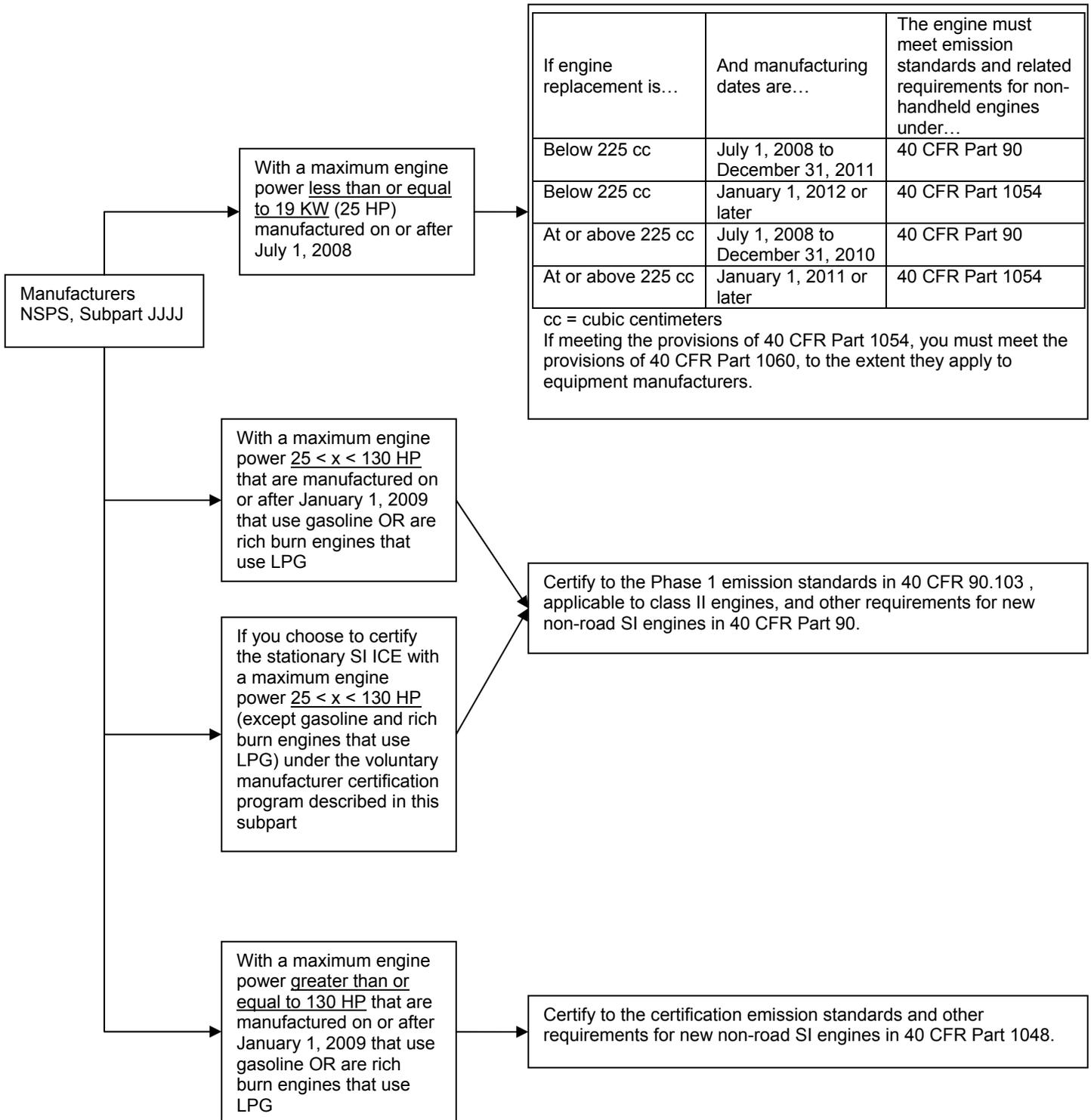


## NSPS, Subpart JJJJ Emergency Generator Flow Chart

### APPLICABILITY:



EMISSION LIMITS:



Manufacturers  
 NSPS, Subpart JJJJ  
 (continued)

If you choose to certify the stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) under the voluntary manufacturer certification program described in this subpart

**TABLE 1:**

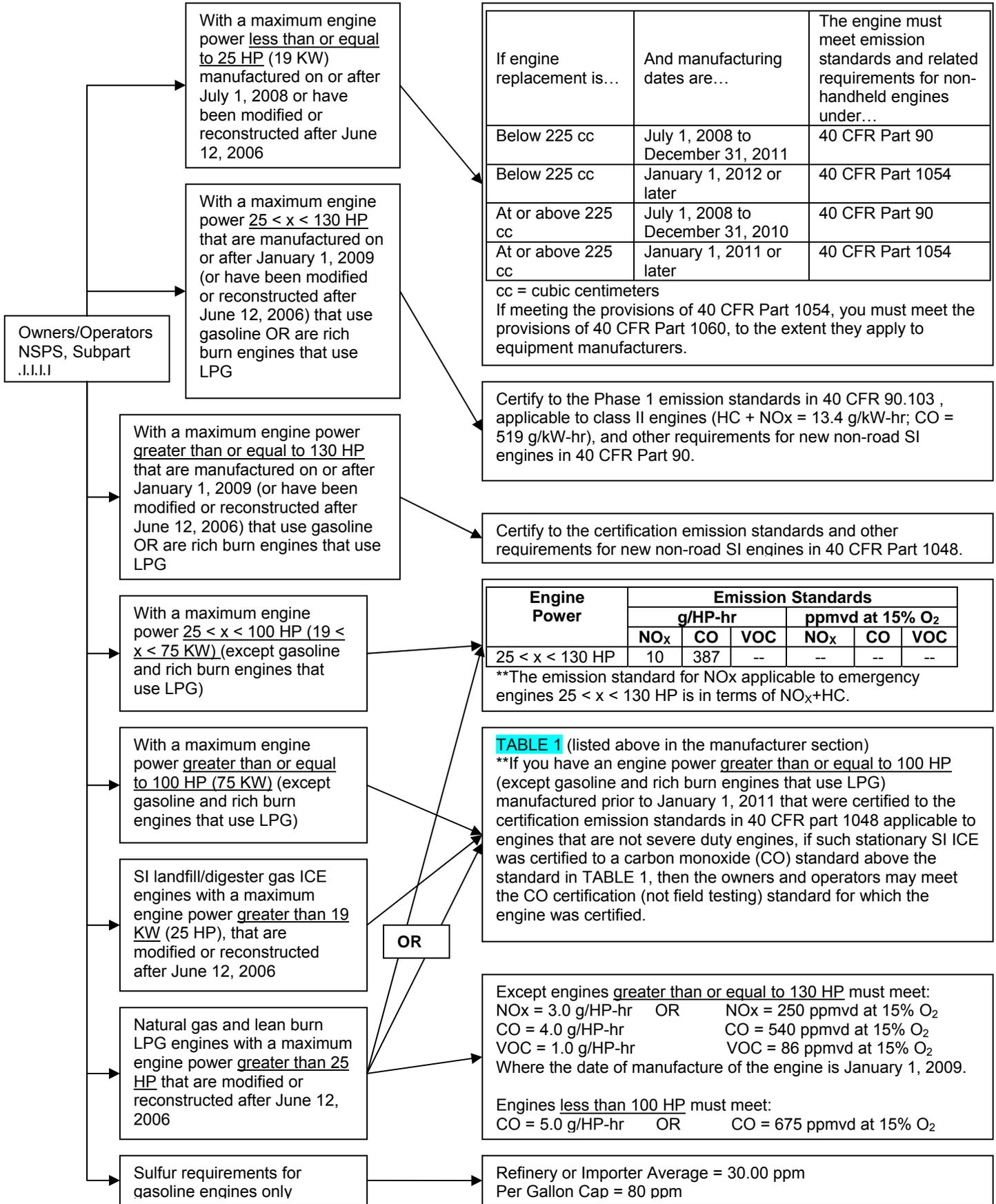
Manufacture Date	Emission Standards					
	g/HP-hr			ppmvd at 15% O <sub>2</sub>		
	NO <sub>x</sub>	CO	VOC	NO <sub>x</sub>	CO	VOC
<b>Landfill/Digester Gas: <math>x &lt; 500</math> HP (except Lean Burn <math>500 \leq x &lt; 1350</math> HP):</b>						
7/1/2008	3.0	5.0	1.0	220	610	80
1/1/2011	2.0	5.0	1.0	150	610	80
<b>Landfill/Digester Gas: <math>x \geq 500</math> HP (except Lean Burn <math>500 \leq x &lt; 1350</math> HP):</b>						
7/1/2007	3.0	5.0	1.0	220	610	80
7/1/2010	2.0	5.0	1.0	150	610	80
<b>Landfill Gas/Digester Lean Burn (<math>500 \leq x &lt; 1350</math> HP):</b>						
1/1/2008	3.0	5.0	1.0	220	610	80
7/1/2010	2.0	5.0	1.0	150	610	80
<b>Emergency: <math>25 &lt; x &lt; 130</math></b>						
1/1/2009	10	387	n/a	n/a	n/a	n/a
<b>Emergency: <math>x \geq 130</math> HP</b>						
1/1/2009	2.0	4.0	1.0	160	540	86

The NO<sub>x</sub> emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO<sub>x</sub> + HC.

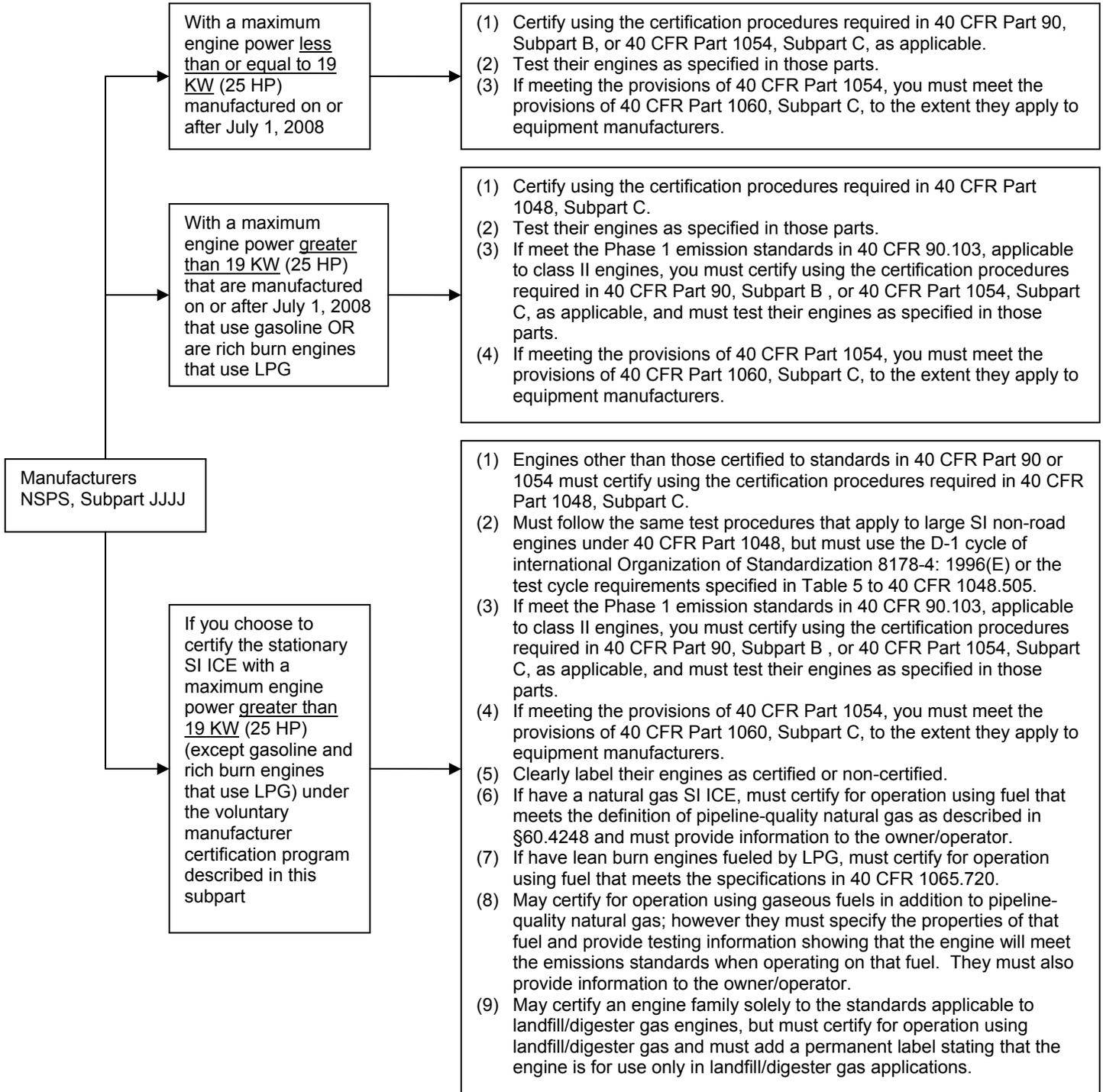
\*\*May certify to the emission standards for new non-road SI engines in 40 CFR part 1048 if you have a lean burn engine that uses LPG.

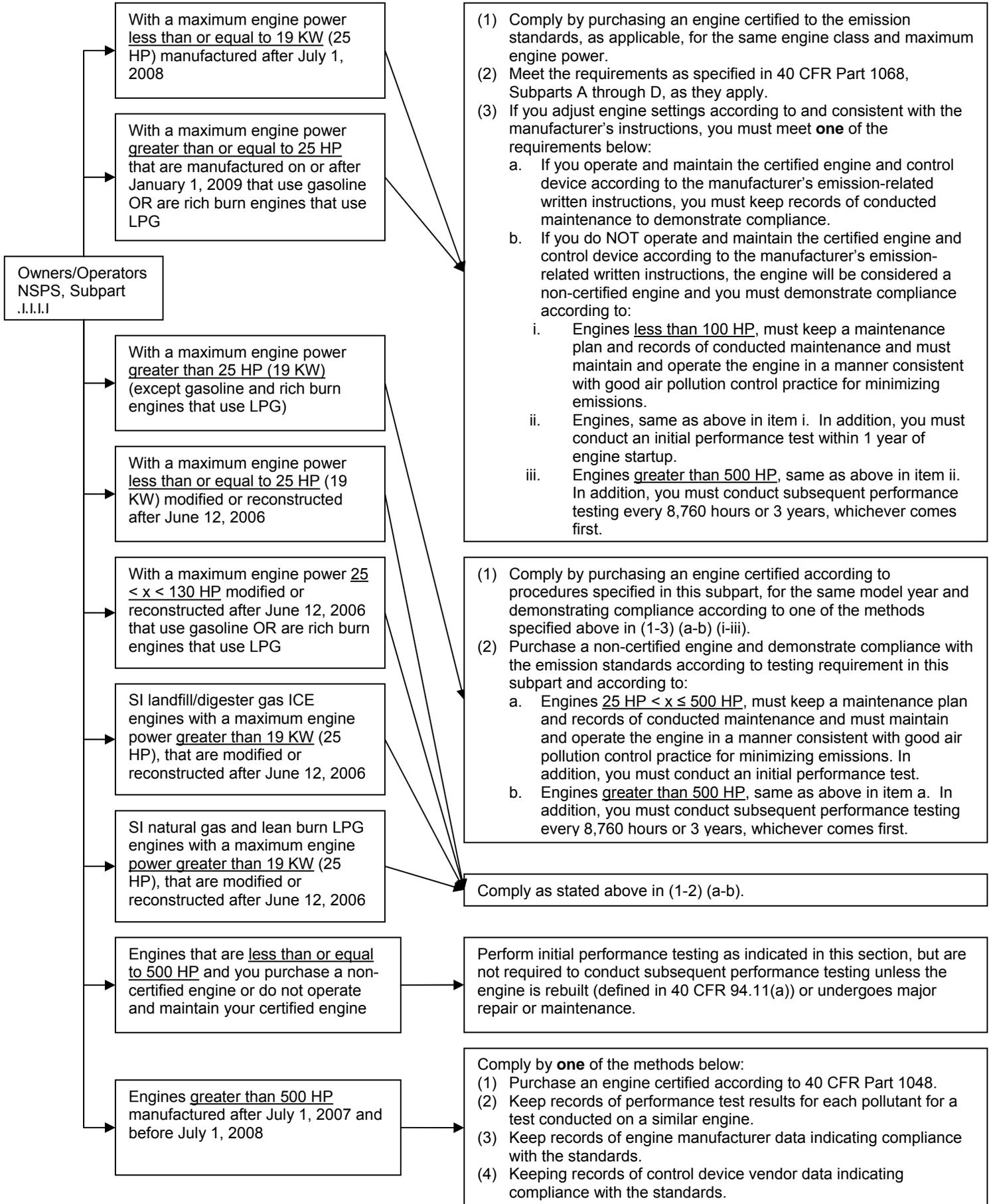
\*\*May certify to the emission standards for new non-road SI engines in 40 CFR part 1048 applicable to engines that are not severe duty engines if you have an engine:

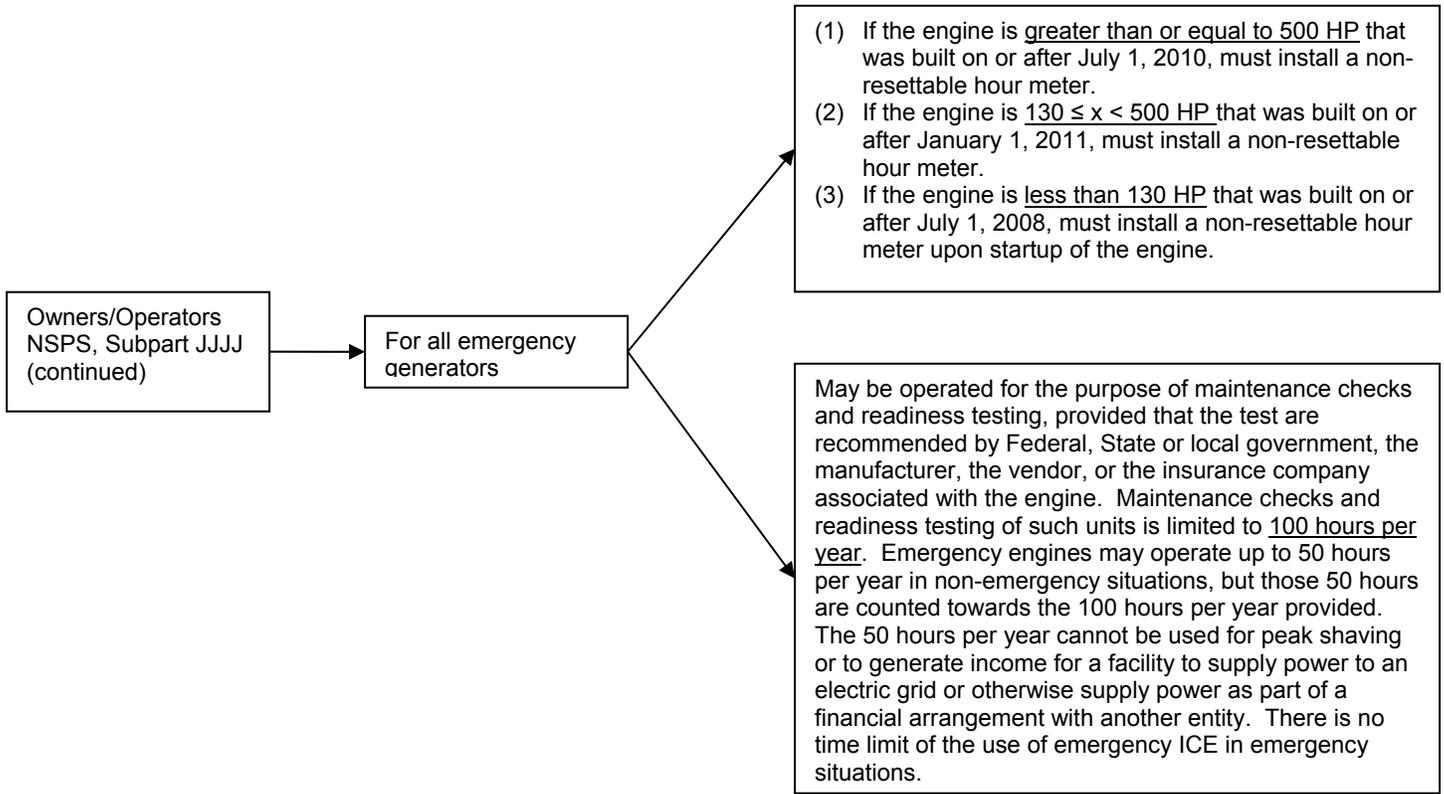
- a. 75 ≤ x < 373 KW ( $100 < x < 500$  HP) manufactured prior to January 1, 2011; or
- b. x ≥ 373 KW (500 HP) manufactured prior to July 1, 2010.



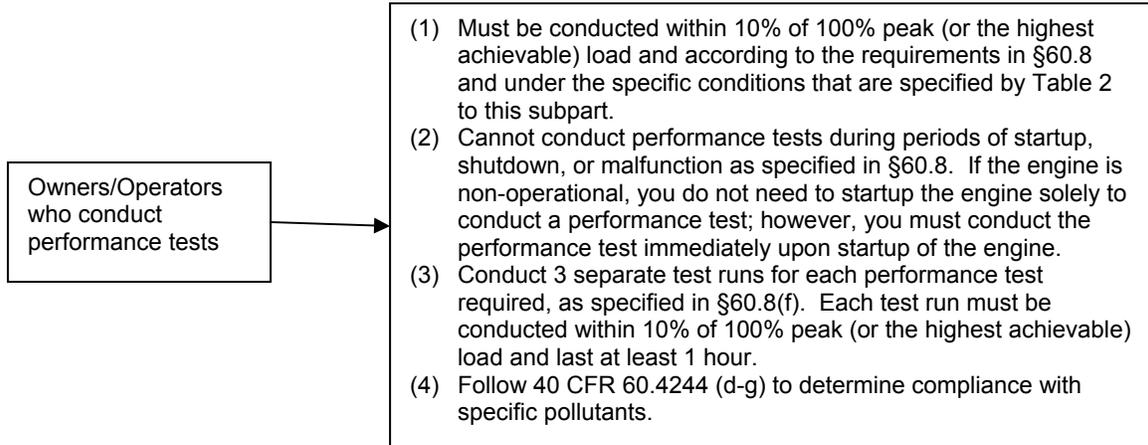
COMPLIANCE:





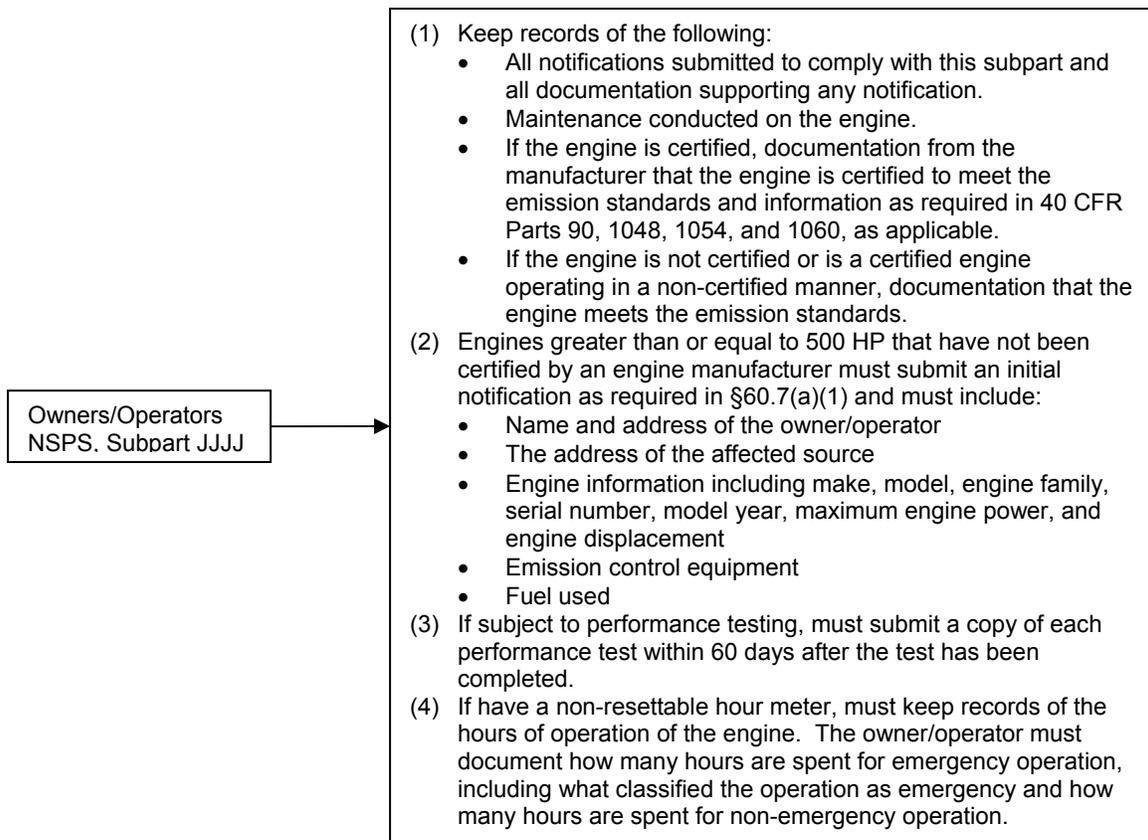


TESTING:



- (1) Must be conducted within 10% of 100% peak (or the highest achievable) load and according to the requirements in §60.8 and under the specific conditions that are specified by Table 2 to this subpart.
- (2) Cannot conduct performance tests during periods of startup, shutdown, or malfunction as specified in §60.8. If the engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.
- (3) Conduct 3 separate test runs for each performance test required, as specified in §60.8(f). Each test run must be conducted within 10% of 100% peak (or the highest achievable) load and last at least 1 hour.
- (4) Follow 40 CFR 60.4244 (d-g) to determine compliance with specific pollutants.

NOTIFICATION, REPORTING, AND RECORDKEEPING:



- (1) Keep records of the following:
  - All notifications submitted to comply with this subpart and all documentation supporting any notification.
  - Maintenance conducted on the engine.
  - If the engine is certified, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR Parts 90, 1048, 1054, and 1060, as applicable.
  - If the engine is not certified or is a certified engine operating in a non-certified manner, documentation that the engine meets the emission standards.
- (2) Engines greater than or equal to 500 HP that have not been certified by an engine manufacturer must submit an initial notification as required in §60.7(a)(1) and must include:
  - Name and address of the owner/operator
  - The 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
- (3) If subject to performance testing, must submit a copy of each performance test within 60 days after the test has been completed.
- (4) If have a non-resettable hour meter, must keep records of the hours of operation of the engine. The owner/operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.