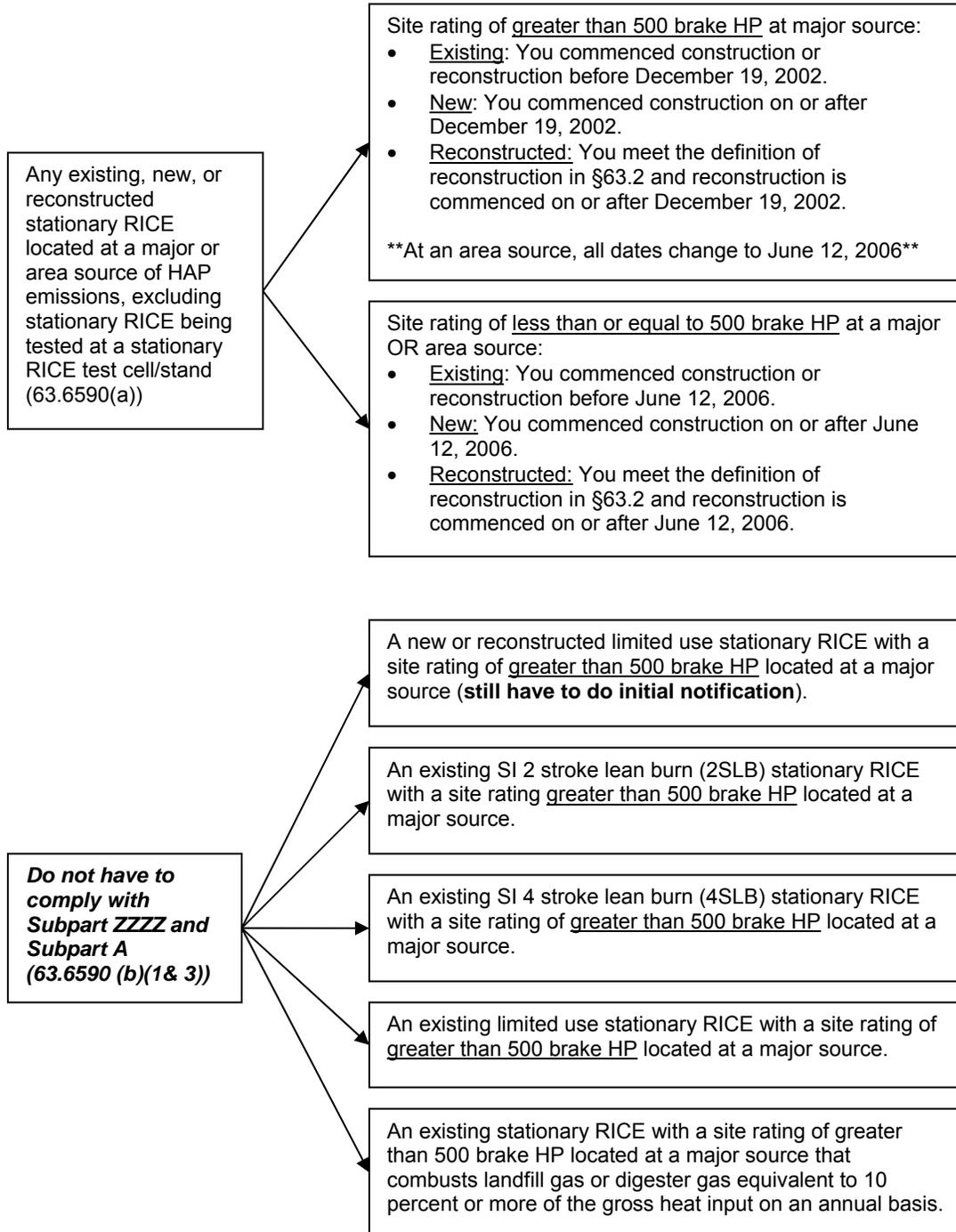


MACT, Subpart ZZZZ Non-Emergency Generator Flow Chart

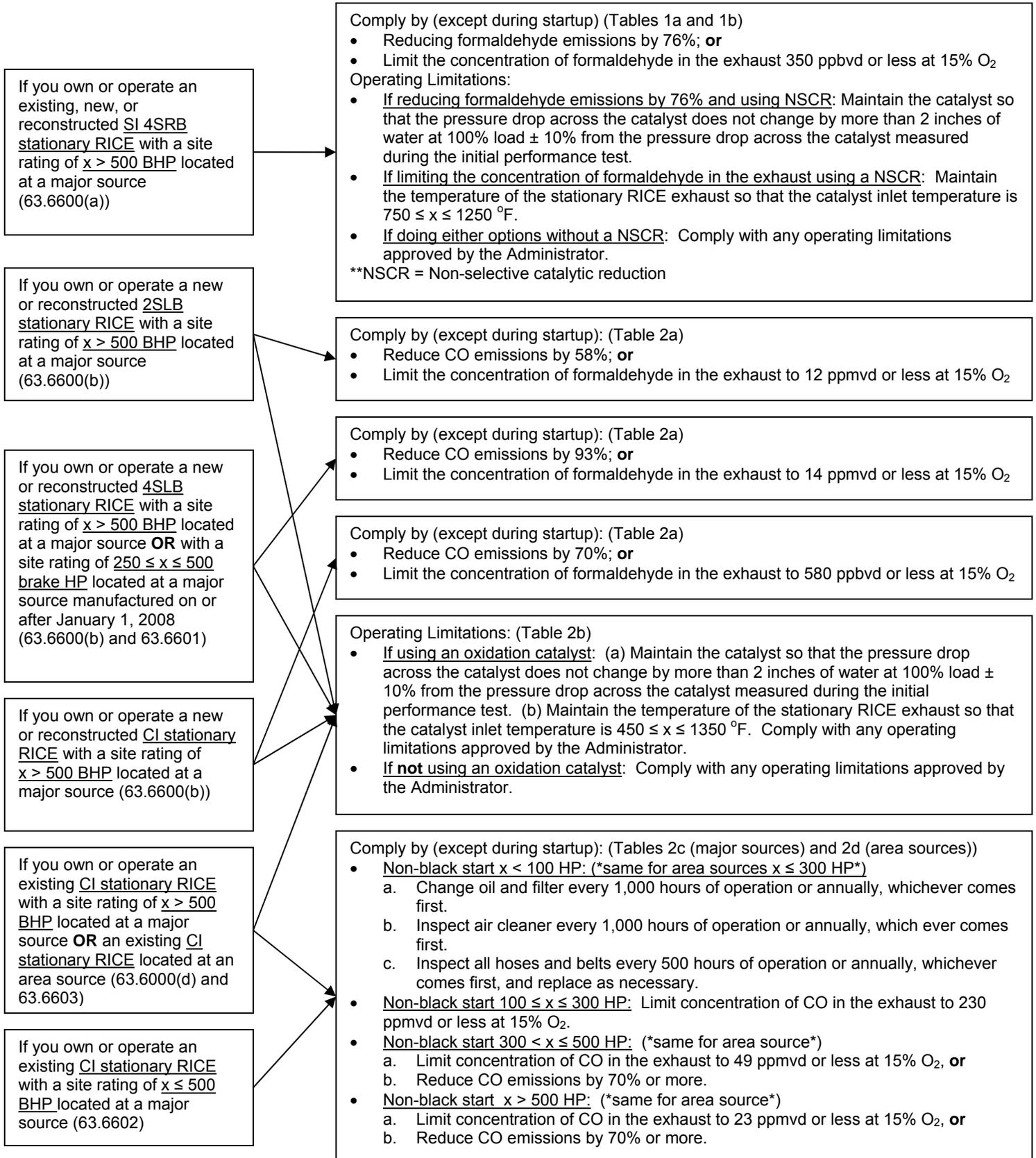
APPLICABILITY:



**A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year.

**An area source of HAP emissions is a plant site that emits or has the potential to emit below the limits of a major source.

EMISSION LIMITS:



****Note:** For all generators during periods of startup, you must minimize the engine's time idle and startup time not to exceed 30 minutes, after which the limits stated above or below apply.

EMISSION LIMITS (Continued)

If you own or operate an existing SI stationary RICE with a site rating of $x \leq 500$ BHP located at a major source (63.6602)

If you own or operate an existing SI stationary RICE located at an area source (63.6603)

And Table 2b above

- Comply by (except during startup): (Tables 2c (major sources) and 2d (area sources))
- Major source - Non-black start $x < 100$ HP that are not 2SLB stationary RICE AND Area source - Non-black start 4SLB stationary RICE $x \leq 500$ HP AND Area source - Non-black start 4SRB stationary RICE $x \leq 500$ HP AND Area source - Non-black start landfill or digester gas-fired stationary RICE:
 - a. Change oil and filter every 1,440 hours of operation or annually, whichever comes first.
 - b. Inspect spark plugs every 1,440 hours of operation or annually, which ever comes first.
 - c. Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary/
 - Major source - Non-black start 2SLB stationary RICE $x < 100$ HP AND Area source - Non-black start 2SLB stationary RICE:
 - a. Change oil and filter every 4,320 hours of operation or annually, whichever comes first.
 - b. Inspect spark plugs every 4,320 hours of operation or annually, which ever comes first.
 - c. Inspect all hoses and belts every 4,320 hours of operation or annually, whichever comes first, and replace as necessary.
 - Major source - Non-black start 2SLB stationary RICE $100 \leq x \leq 500$ HP: Limit concentration of CO in the exhaust to 225 ppmvd or less at 15% O₂.
 - Major source - Non-black start 4SLB stationary RICE $100 \leq x \leq 500$ HP: Limit concentration of CO in the exhaust to 47 ppmvd or less at 15% O₂.
 - Major source - Non-black start 4SRB stationary RICE $100 \leq x \leq 500$ HP: Limit concentration of CO in the exhaust to 10.3 ppmvd or less at 15% O₂.
 - Major source - Non-black start landfill or digester gas-fired stationary RICE $100 \leq x \leq 500$ HP: Limit concentration of CO in the exhaust to 177 ppmvd or less at 15% O₂.
 - Area source - Non-black start 4SLB stationary RICE $x > 500$ HP:
 - a. Limit concentration of CO in the exhaust to 47 ppmvd at 15% O₂; **or**
 - b. Reduce CO emissions by 93% or more.
 - Area source - Non-black start 4SRB stationary RICE $x > 500$ HP:
 - a. Limit concentration of formaldehyde in the exhaust to 2.7 ppmvd at 15% O₂; **or**
 - b. Reduce formaldehyde emissions by 76% or more.
 - Area source - Non-black start 4SLB or 4SRB stationary RICE $x > 500$ HP that operate 24 hours or less per calendar year:
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first.
 - b. Inspect spark plugs every 1,000 hours of operation or annually, which ever comes first.
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

If you own or operate an existing non-black start CI stationary RICE with a site rating of $x > 300$ BHP with a displacement of less than 30 liters per cylinder that uses diesel fuel (63.6604)

Must use diesel fuel that meets the requirements of 40 CFR 80.510(b) for non-road diesel fuel.

EMISSION LIMITS (Continued)

If you own or operate any RICE with a site rating of $x > 500$ BHP located at a major source that is:

- An existing 2SLB stationary RICE
- An existing 4SLB stationary RICE
- A stationary RICE that combusts landfill gas or digester gas equivalent to 10% or more of the gross heat input on an annual basis
- Limited use stationary RICE

Do not have to comply with the emission limitations or operating limits of Subpart ZZZZ. (63.6600(c))

If you own or operate any RICE with a site rating of $x > 500$ BHP located at a major source that is:

- An existing 2SLB stationary RICE
- An existing 4SLB stationary RICE
- An existing limited use stationary RICE
- An existing stationary RICE which fired landfill gas or digester gas equivalent to 10% or more of the gross heat input on an annual basis

In addition:

- A new or reconstructed stationary RICE located at an area source
- A new or reconstructed stationary RICE with a site rating $x \leq 500$ BHP located at a major source (except new or reconstructed 4SLB engines $250 \leq x \leq 500$ BHP)

Do not have to comply with the requirements in Table 8 (Applicability of General Provisions to Subpart ZZZZ) (63.6640(e))

If you own or operate any RICE with a site rating of $x > 500$ BHP located at a major source that is:

- A new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10% or more of the gross heat input on an annual basis
- A new or reconstructed limited use stationary RICE

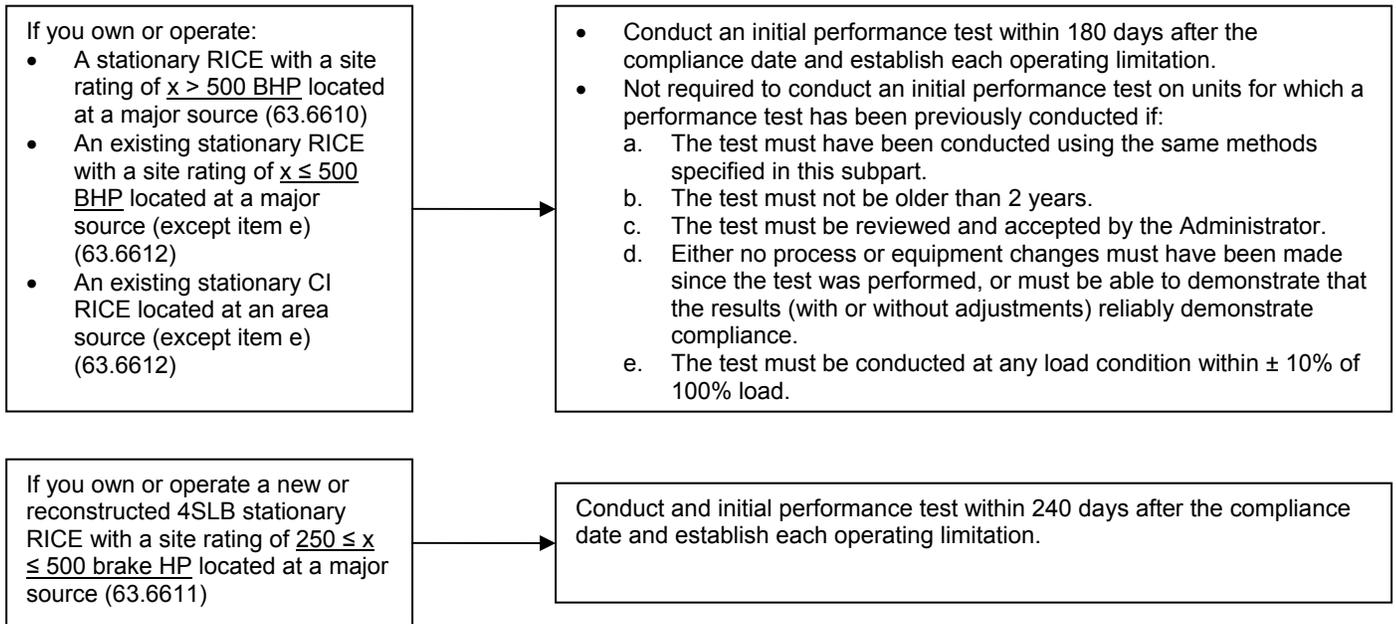
Do not have to comply with the requirements in Table 8 (Applicability of General Provisions to Subpart ZZZZ) EXCEPT for the initial notification requirements. (63.6640(e))

If you own or operate:

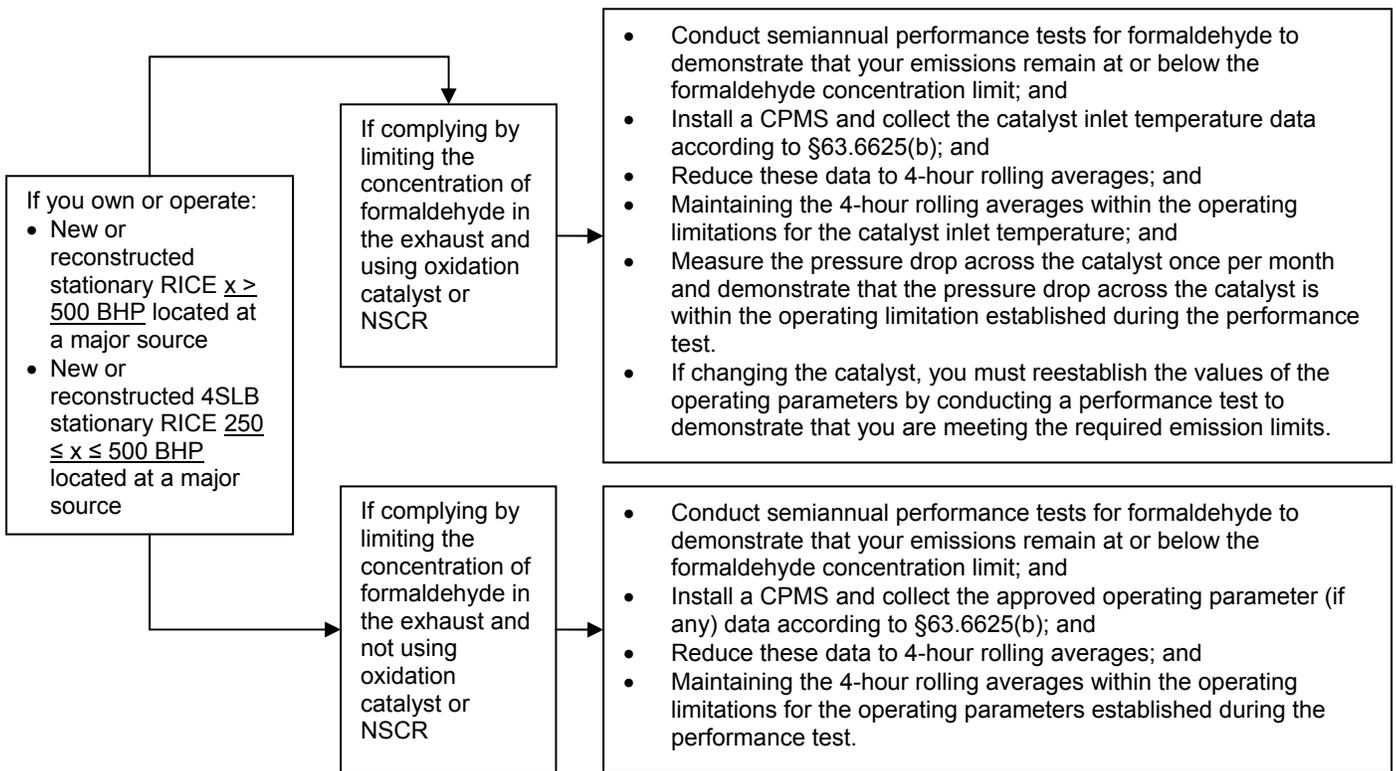
- A new or reconstructed stationary RICE located at an area source.
- A new or reconstructed stationary RICE located at a major source that is:
 - a. A 2SLB stationary RICE with a site rating of $x \leq 500$ BHP.
 - b. A 4SLB stationary RICE with a site rating of $x < 250$ BHP.
 - c. A SI 4SRB stationary RICE with a site rating of $x \leq 500$ BHP.
 - d. A stationary RICE with a site rating of $x \leq 500$ BHP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis.
 - e. A limited use stationary RICE with a site rating of $x \leq 500$ BHP.
 - f. A CI stationary RICE with a site rating of $x \leq 500$ BHP

These units must meet the requirements of this part by meeting the requirements of NSPS, Subpart IIII, for CI engines or NSPS, Subpart JJJJ, for SI engines. No further requirements apply for such engines under this part. (63.6590(c))

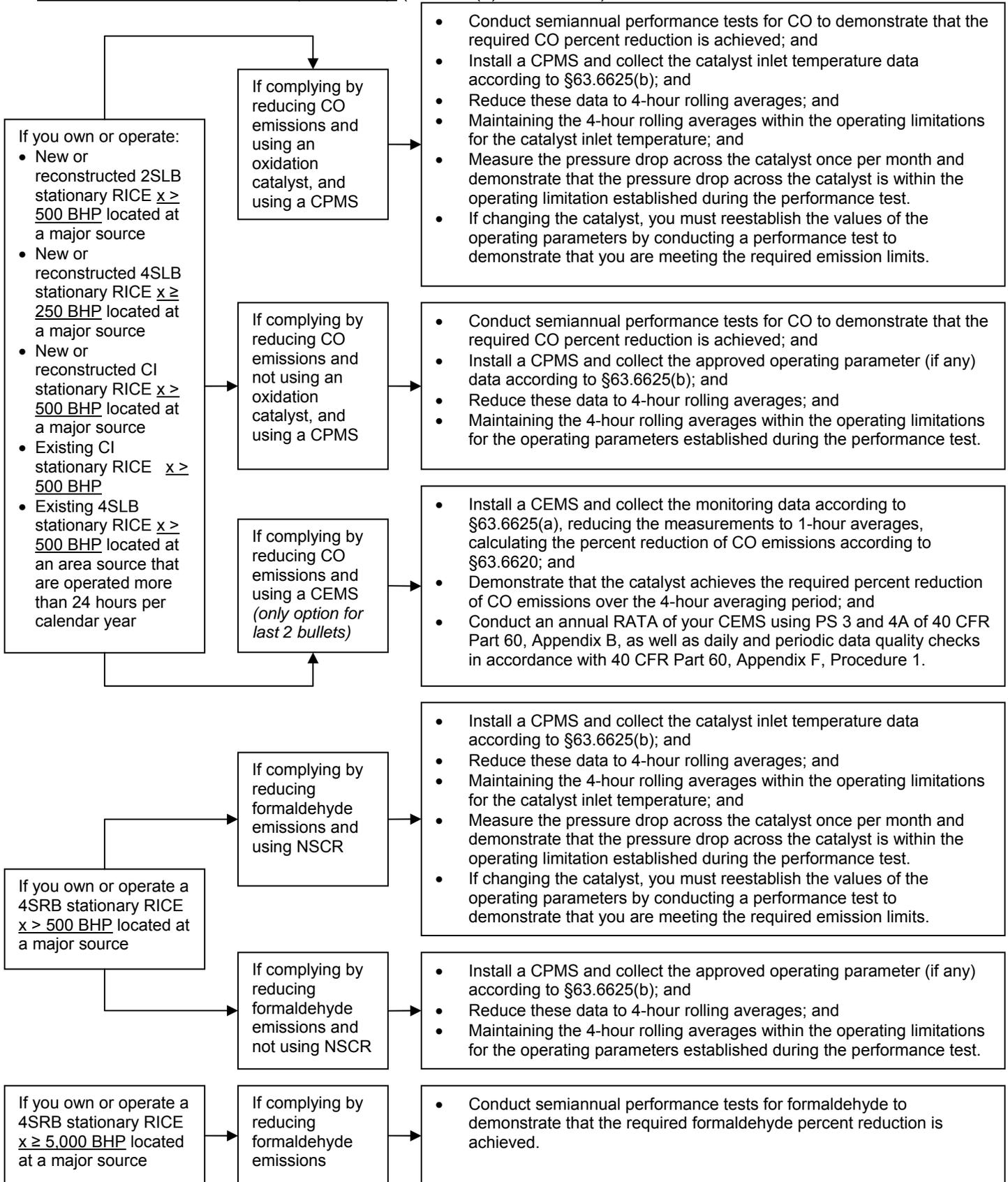
INITIAL TESTING:



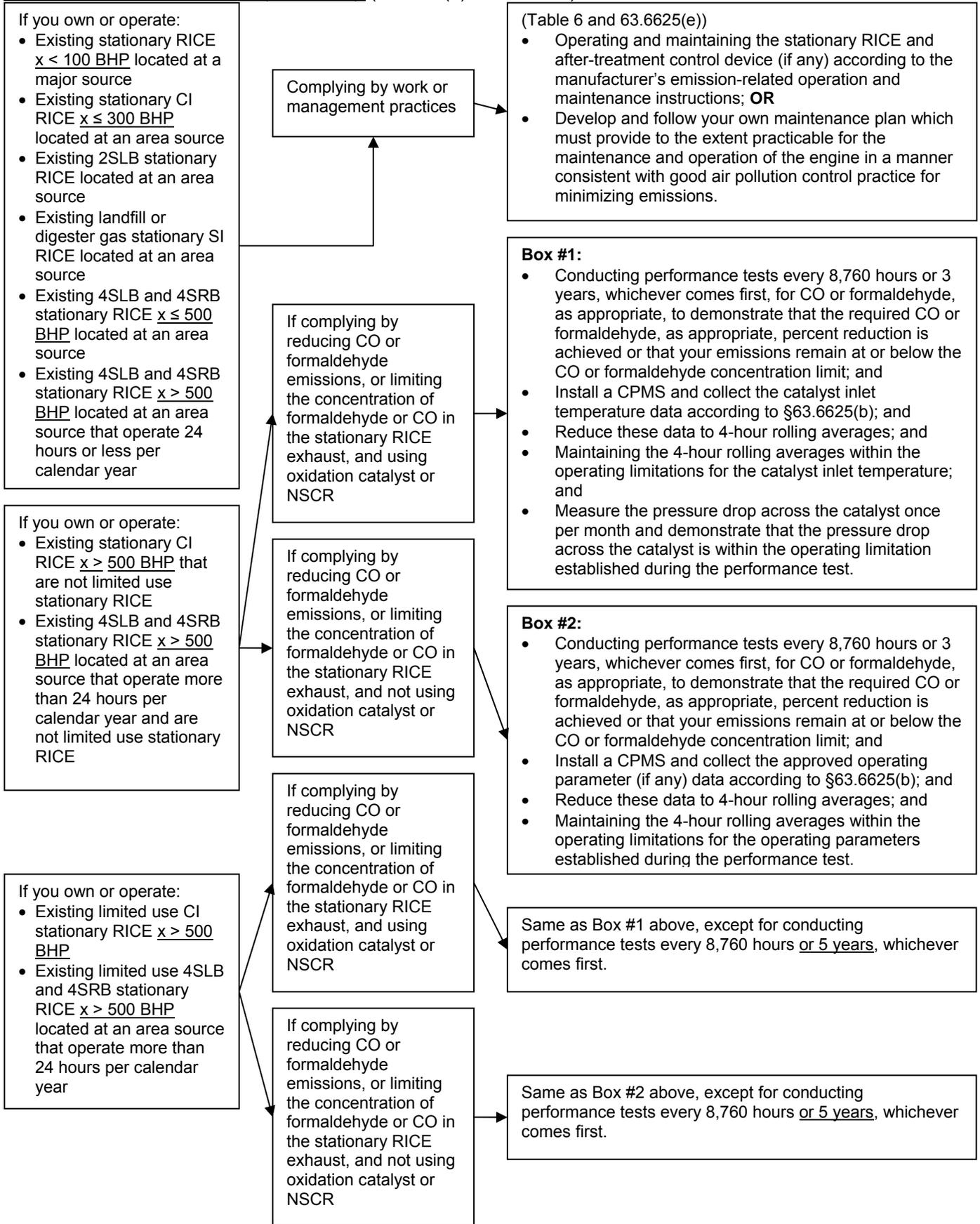
CONTINUOUS COMPLIANCE: (63.6640(a) and Table 6)



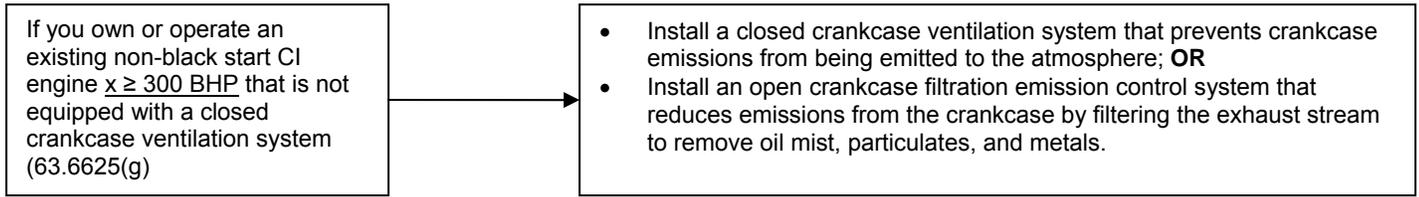
CONTINUOUS COMPLIANCE (Continued): (63.6640(a) and Table 6)



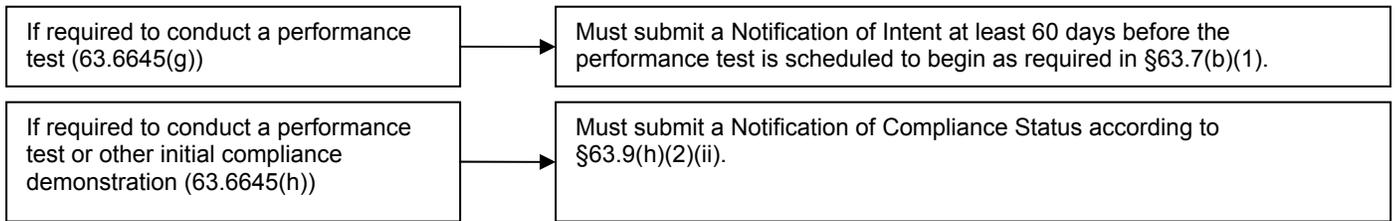
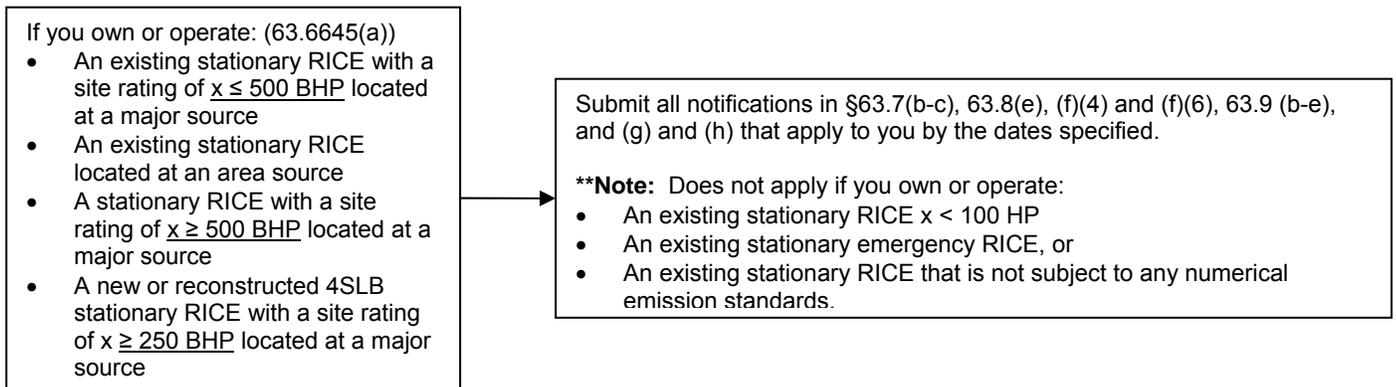
CONTINUOUS COMPLIANCE (Continued): (63.6640(a) and Table 6)



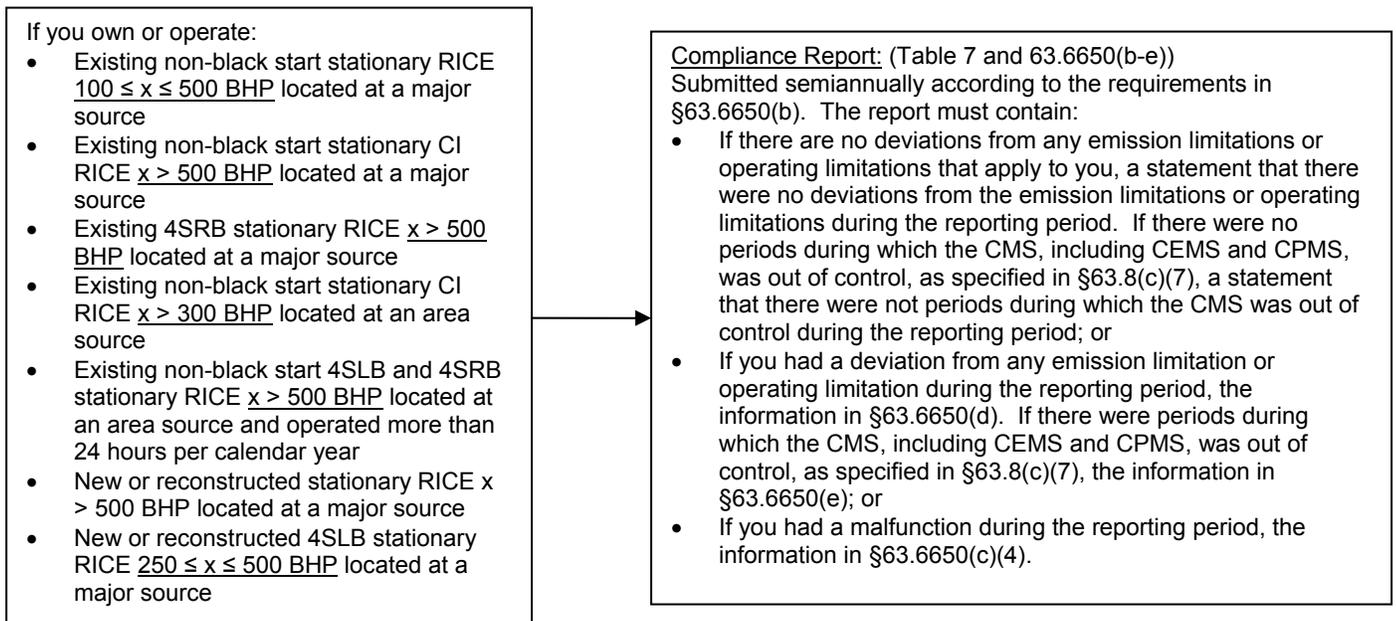
CONTINUOUS COMPLIANCE (Continued):

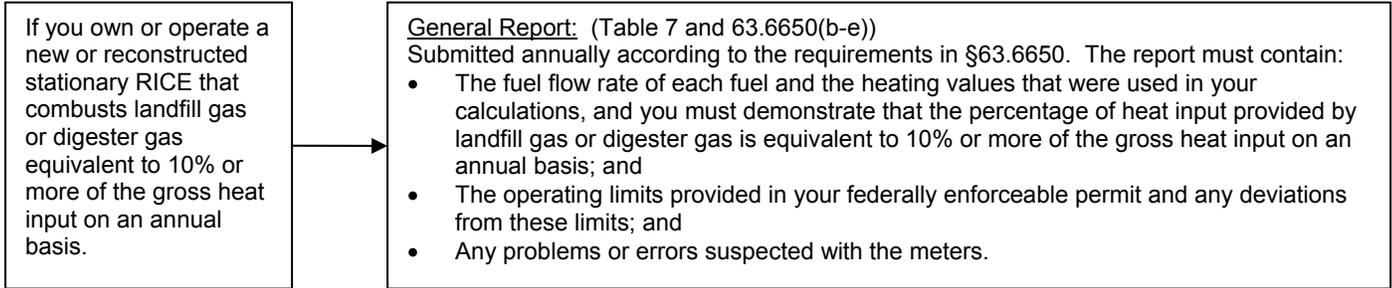


NOTIFICATIONS:

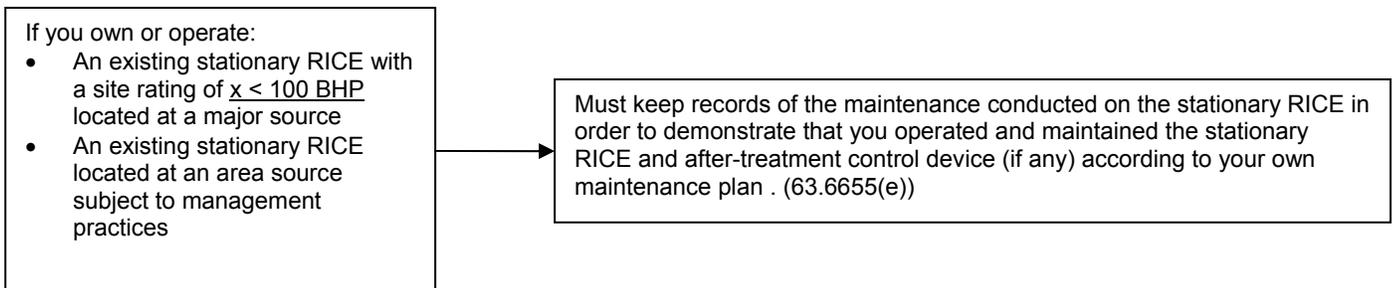
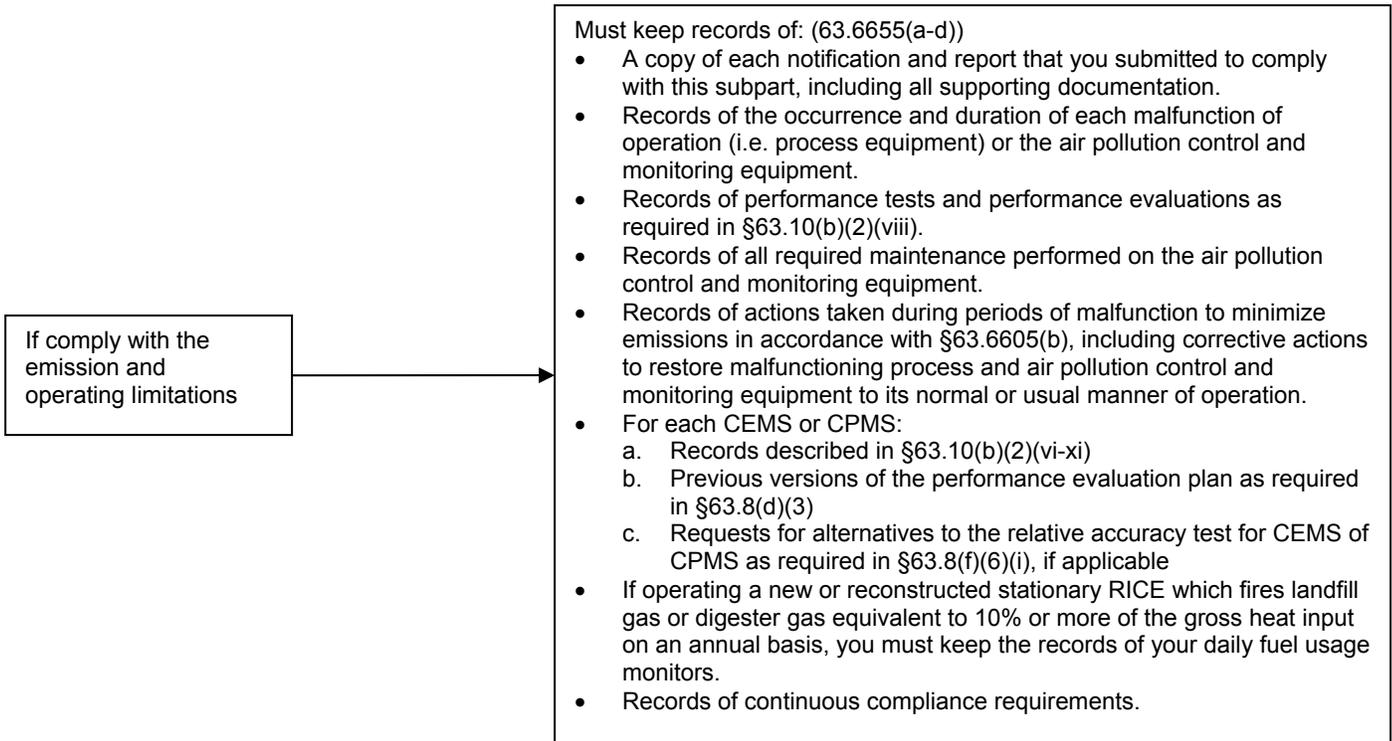


REPORTS:



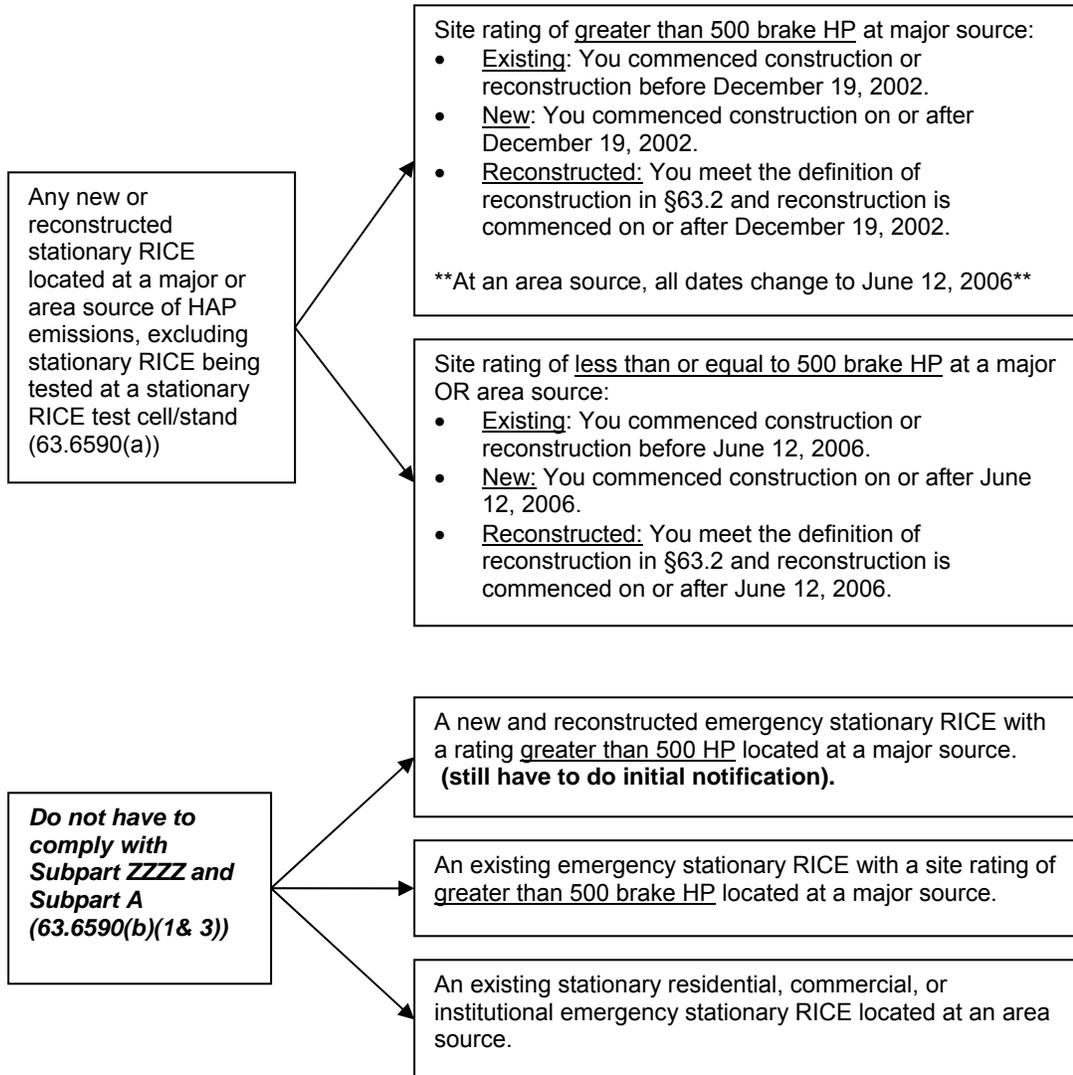


RECORDS:



MACT, Subpart ZZZZ Emergency Generator Flow Chart

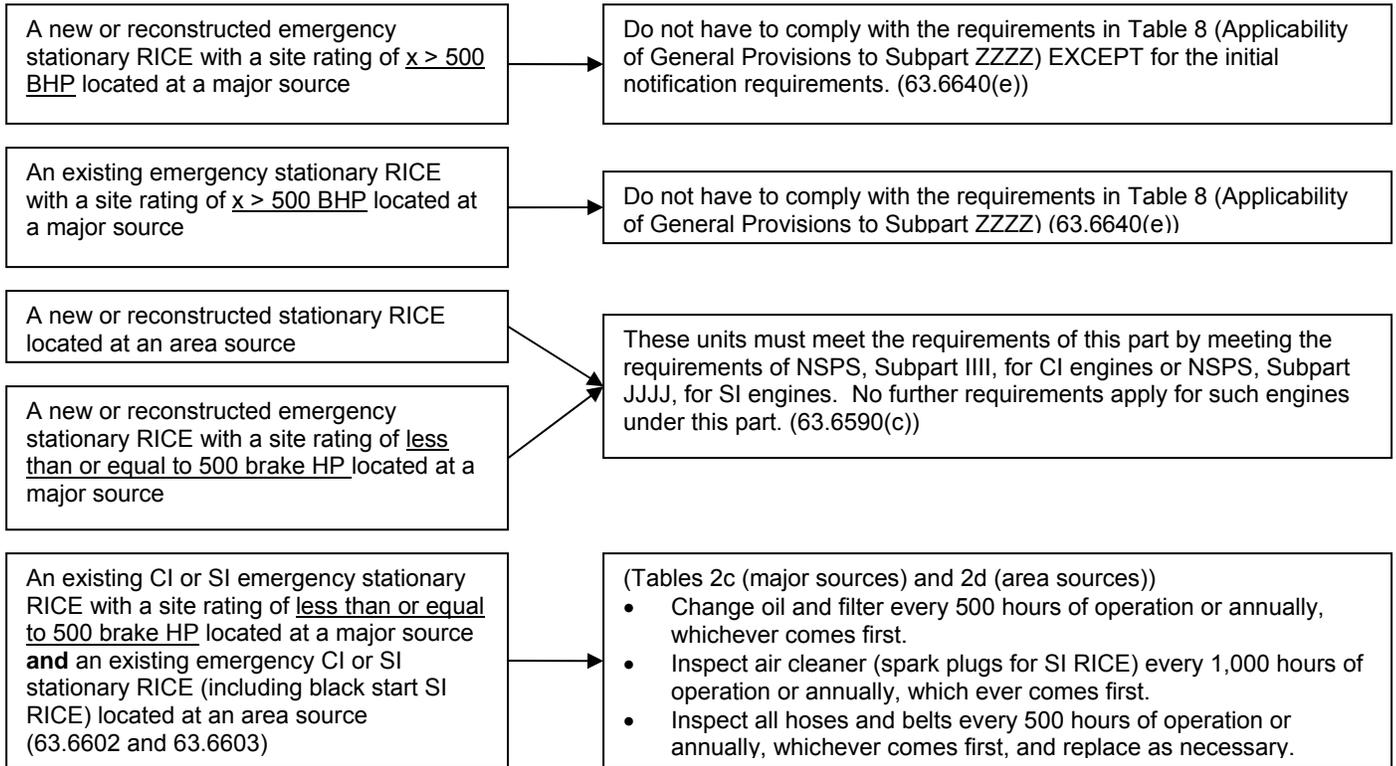
APPLICABILITY:



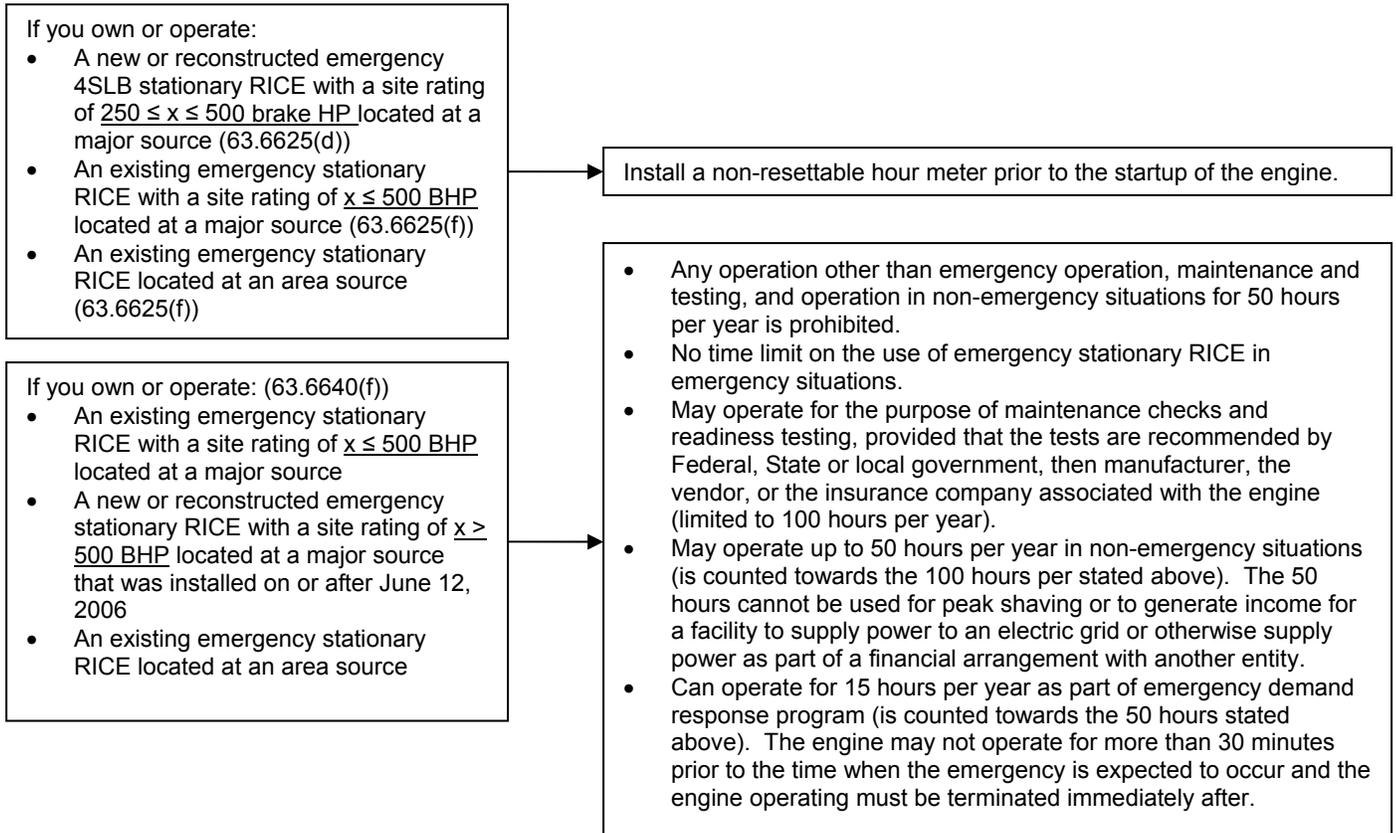
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**An area source of HAP emissions is a plant site that emits or has the potential to emit below the limits of a major source.

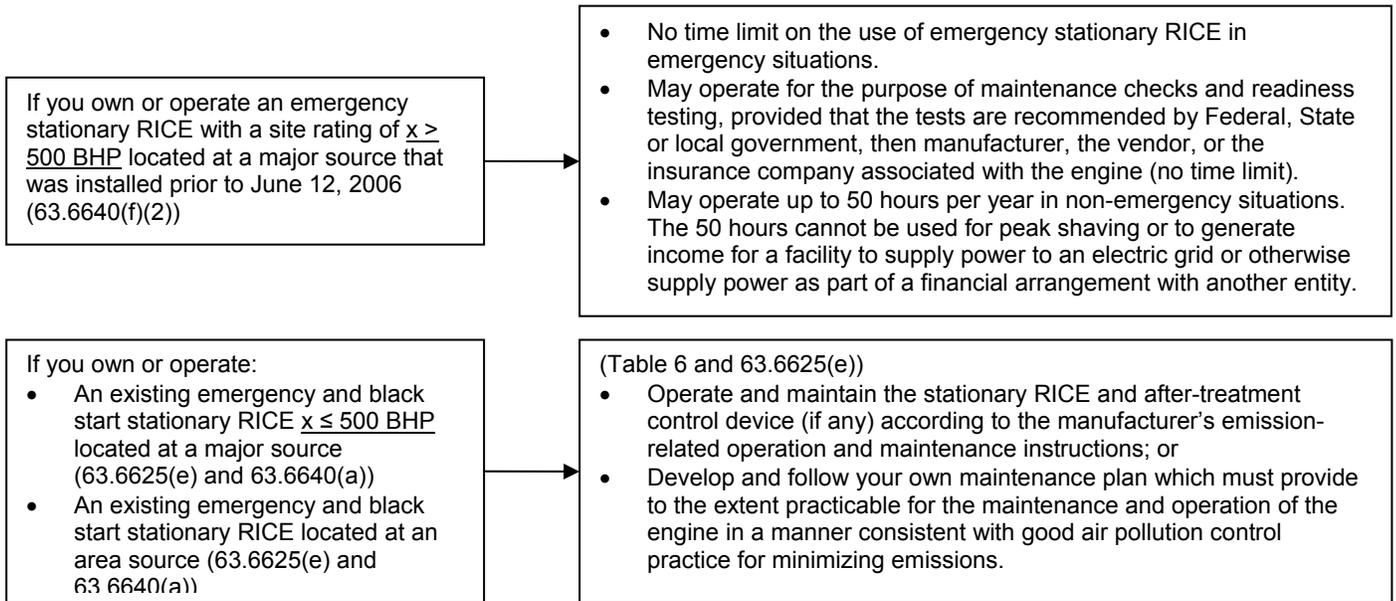
EMISSION LIMITS:



CONTINUOUS COMPLIANCE:



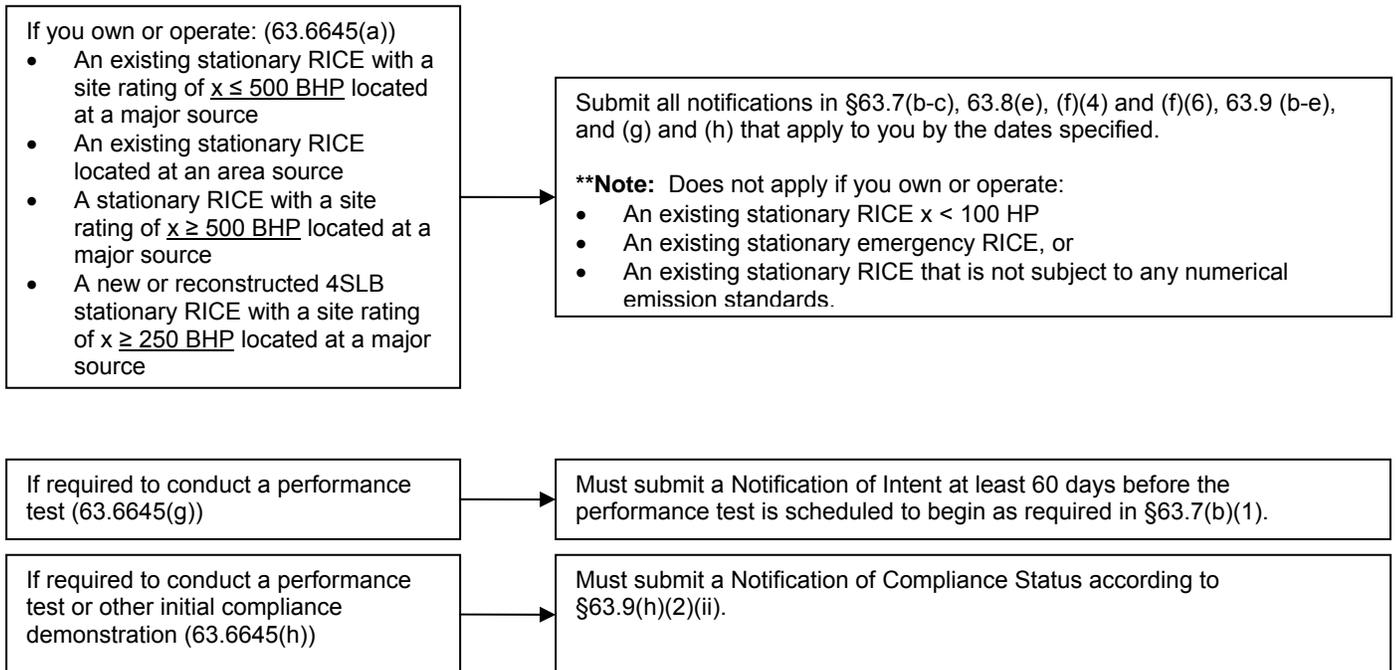
CONTINUOUS COMPLIANCE (Continued):



INITIAL TESTING:

Initial testing is not required for emergency generators since these generators do not have to comply with requirements by reducing CO emissions, formaldehyde emissions, or by limiting the concentration of formaldehyde or CO in the stationary RICE exhaust (i.e. they do not meet Table 4 and 5 per 63.6610, 63.6611, and 63.6612)

NOTIFICATIONS:



REPORTS:

No reports for emergency generators. (Table 7 and 63.6650(b-e))

RECORDS:

