§ 63.9302 What operating limits must I meet?
(a) For any new or reconstructed affected source on which you use add-on controls, you must meet the operating limits specified in Table 2 to this subpart. These operating limits must be established during the performance test according to the requirements in §63.9324. You must meet the operating limits at all times after you establish them.
(b) If you use an add-on control device other than those listed in Table 2 to this subpart, or wish to monitor an alternative parameter and comply with a different operating limit, you must apply to the Administrator for approval of alternative monitoring under §63.8(f).

GENERAL COMPLIANCE REQUIREMENTS
§ 63.9305 What are my general requirements for complying with this subpart?
(a) You must be in compliance with the emission limitation that applies to you at all times, except during periods of startup, shutdown, or malfunction (SSM) of your control device or associated monitoring equipment.
(b) If you must comply with the emission limitation, you must operate and maintain your engine test cell/stand, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times.
(c) You must develop a written SSM plan (SSMP) for emission control devices and associated monitoring equipment according to the provisions in §63.6(e)(3). The plan will apply only to emission control devices, and not to engine test cells/stands.

§ 63.9306 What are my continuous parameter monitoring system (CPMS) installation, operation, and maintenance requirements?
(a) General. You must install, operate, and maintain each CPMS specified in paragraphs (c) and (d) of this section according to paragraphs (a)(1) through (7) of this section. You must install, operate, and maintain each CPMS specified in paragraph (b) of this section according to paragraphs (a)(3) through (5) of this section.
(1) The CPMS must complete a minimum of one cycle of operation for each successive 15-minute period. You must have a minimum of four equally spaced successive cycles of CPMS operation in 1 hour.
(2) You must determine the average of all recorded readings for each successive 3-hour period of the emission capture system and add-on control device operation.
(3) You must record the results of each inspection, calibration, and validation check of the CPMS.
(4) You must maintain the CPMS at all times and have available necessary parts for routine repairs of the monitoring equipment.
(5) You must operate the CPMS and collect emission capture system and add-on control device parameter data at all times that an engine test cell/stand is operating, except during monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, if applicable, calibration checks and required zero and span adjustments).
(6) You must not use emission capture system or add-on control device parameter data recorded during monitoring malfunctions, associated repairs, out-of-control periods, or required quality assurance or control activities when calculating data averages. You must use all the data collected during all other periods in calculating the data averages for determining compliance with the emission capture system and add-on control device operating limits.
(7) A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the CPMS to provide valid data. Monitoring failures
that are caused in part by poor maintenance or careless operation are not
malfunctions. Any period for which the monitoring system is out-of-control
and data are not available for required calculations is a deviation from the
monitoring requirements.

(b) Capture system bypass line. You must meet the requirements of para-
graphs (b)(1) and (2) of this section for each emission capture system that con-
tains bypass lines that could divert emissions away from the add-on con-
trol device to the atmosphere.

(1) You must monitor or secure the valve or closure mechanism controlling
the bypass line in a nondiverting position in such a way that the valve or
closure mechanism cannot be opened without creating a record that the
valve was opened. The method used to monitor or secure the valve or closure
mechanism must meet one of the requirements specified in paragraphs
(b)(1)(i) through (iv) of this section.

(i) Flow control position indicator. Install, calibrate, maintain, and operate
according to the manufacturer's specifications a flow control position indi-
cator that takes a reading at least once every 15 minutes and provides a record
indicating whether the emissions are directed to the add-on control device or
diverted from the add-on control device. The time of occurrence and flow
control position must be recorded, as well as every time the flow direction is
changed. The flow control position indicator must be installed at the en-
trance to any bypass line that could divert the emissions away from the add-
on control device to the atmosphere.

(ii) Car-seal or lock-and-key valve clos-
ures. Secure any bypass line valve in the closed position with a car-seal or a
lock-and-key type configuration. You must visually inspect the seal or clo-
sure mechanism at least once every month to ensure that the valve is
maintained in the closed position, and the emissions are not diverted away
from the add-on control device to the atmosphere.

(iii) Valve closure monitoring. Ensure
that any bypass line valve is in the closed (nondiverting) position through
monitoring of valve position at least once every 15 minutes. You must in-
spect the monitoring system at least once every month to verify that the mon-
tor will indicate valve position.

(iv) Automatic shutdown system. Use
an automatic shutdown system in which the engine testing operation is
stopped when flow is diverted by the bypass line away from the add-on con-
trol device to the atmosphere when an engine test cell/stand is operating. You
must inspect the automatic shutdown system at least once every month to
verify that it will detect diversions of flow and shut down the engine test cell/
stand in operation.

(2) If any bypass line is opened, you
must include a description of why the bypass line was opened and the length
of time it remained open in the semiannual compliance reports required in
§63.9350.

(c) Thermal oxidizers and catalytic
oxidizers. If you are using a thermal ox-
idizer or catalytic oxidizer as an add-on control device, you must comply with
the requirements in paragraphs (c)(1) through (3) of this section.

(1) For a thermal oxidizer, install a
gas temperature monitor in the firebox of the thermal oxidizer or in the duct
immediately downstream of the firebox before any substantial heat exchange
occurs.

(2) For a catalytic oxidizer, you must
install a gas temperature monitor in the gas stream immediately before the
catalyst bed, and if you established operating limits according to
§63.9324(b)(1) and (2), also install a gas
temperature monitor in the gas stream immediately after the catalyst bed.

(i) If you establish operating limits
according to §63.9324(b)(1) and (2), then
you must install the gas temperature monitors both upstream and down-
stream of the catalyst bed. The tem-
perature monitors must be in the gas stream immediately before and after the
catalyst bed to measure the tem-
perature difference across the bed.

(ii) If you establish operating limits
according to §63.9324(b)(3) and (4), then
you must install a gas temperature
monitor upstream of the catalyst bed.
The temperature monitor must be in
the gas stream immediately before the
catalyst bed to measure the tempera-
ture.

(3) For all thermal oxidizers and
catalytic oxidizers, you must meet the
§ 63.9307 What are my continuous emissions monitoring system installation, operation, and maintenance requirements? 

(a) You must install, operate, and maintain each CEMS to monitor carbon monoxide (CO) or total hydrocarbons (THC) and oxygen (O₂) at the outlet of the exhaust system of the engine test cell/stand or at the outlet of the emission control device.

(b) To comply with the CO or THC percent reduction emission limitation, you may install, operate, and maintain a CEMS to monitor CO or THC and O₂ at both the inlet and the outlet of the emission control device.

(c) To comply with either emission limitations, the CEMS must be installed and operated according to the requirements described in paragraphs (c)(1) through (4) of this section.

(1) You must install, operate, and maintain each CEMS according to the applicable Performance Specification (PS) of 40 CFR part 60, appendix B (PS–3 or PS–4A).

(2) You must conduct a performance evaluation of each CEMS according to