

	Tech Gram Carbon Monoxide Detector Rules – Verification of 50 ppm Setpoint	Implementation Date	12/15/2022
		Last Reviewed/Update Date	12/15/2022
		SOP Owner	Chief Boiler Inspector

BOILER TECHNICAL GRAM

Number: 2022-04

Date: December 15, 2022

To: Authorized Inspection Agencies
Texas In-Service Commissioned Boiler Inspectors

From: Office of the Chief Boiler Inspector
Texas Department of Licensing and Regulation (TDLR), Regulatory Program
Management (RPM) Division, Building Safety, Boiler Program

Subject: Carbon Monoxide (CO) Detector Rules – Verification of 50 ppm Setpoint

References: - Texas Boiler Law, Health and Safety Code Ch. 755, Sec. 755.025 Inspection
- Texas Administrative Code, Ch 65 Boilers, §65.206 Boiler Room

Purpose: To confirm the necessity of a visual display on carbon monoxide detectors.

Applicability: New installations or reinstallations of one or more boilers completed on or after *September 1, 2020*

Texas Administrative Code, Ch 65 Boilers, §65.206(a) states that:

(a) Each boiler room containing one or more boilers from which carbon monoxide can be produced shall be equipped with a carbon monoxide detector with a manual reset.

(1) The carbon monoxide detector and boiler(s) shall be interlocked to disable the burners when the measured level of CO rises above 50 ppm.

(2) The carbon monoxide detector shall disable the burners upon loss of power to the detector.

(3) The carbon monoxide detector shall be calibrated in accordance with the manufacturer's recommendations or every eighteen months after installation of the detector. A record of calibration shall be posted at or near the boiler, or be readily accessible to an inspector.

(4) The requirements in this subsection apply to boiler rooms in which new installations or reinstallations of one or more boilers are completed on or after **September 1, 2020**.

The Texas Boiler Rules require Boiler Inspectors to verify that carbon monoxide (CO) detectors comply with Boiler Rule §65.206(a). Inspectors must test the CO detector to verify that the interlock will disable the boiler burners when the measured level of CO rises above 50 ppm. This verification requires that the tester be able to visually confirm the CO level when the level rises above 50 ppm. Visual readouts make it easier to confirm that the CO detector is working correctly; without those visual readouts, operators cannot quickly respond to increasing CO concentrations.

Carbon monoxide detectors with integrated digital readouts/displays are commonly available. To comply with Boiler Rule §65.206(a), you must use these integrated digital readouts or other means to provide the measured level of CO.

Questions regarding this Technical Gram should be addressed to the Chief Boiler Inspector or an Inspection Specialist.

Sincerely,



Robby D. Troutt
Chief Boiler Inspector
TDLR – Boiler Program