

**Environmental Protection Agency**

**Part 60, Subpt. IIII, Table 7**

[As stated in §§ 60.4202(d) and 60.4205(c), you must comply with the following emission standards for stationary fire pump engines]

Maximum engine power	Model year(s)	NMHC + NO <sub>x</sub>	CO	PM
450≤KW≤560 (600≤HP≤750) .....	2008 and earlier .....	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2009+ .....	4.0 (3.0)	.....	0.20 (0.15)
KW>560 (HP>750) .....	2007 and earlier .....	10.5 (7.8)	3.5 (2.6)	0.54 (0.40)
	2008+ .....	6.4 (4.8)	.....	0.20 (0.15)

<sup>1</sup> For model years 2011–2013, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 revolutions per minute (rpm) may comply with the emission limitations for 2010 model year engines.

<sup>2</sup> For model years 2010–2012, manufacturers, owners and operators of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2009 model year engines.

<sup>3</sup> In model years 2009–2011, manufacturers of fire pump stationary CI ICE in this engine power category with a rated speed of greater than 2,650 rpm may comply with the emission limitations for 2008 model year engines.

**TABLE 5 TO SUBPART IIII OF PART 60—LABELING AND RECORDKEEPING REQUIREMENTS FOR NEW STATIONARY EMERGENCY ENGINES**

[You must comply with the labeling requirements in §60.4210(f) and the recordkeeping requirements in §60.4214(b) for new emergency stationary CI ICE beginning in the following model years:]

Engine power	Starting model year
19≤KW<56 (25≤HP<75) .....	2013
56≤KW<130 (75≤HP<175) .....	2012
KW≥130 (HP≥175) .....	2011

**TABLE 6 TO SUBPART IIII OF PART 60—OPTIONAL 3-MODE TEST CYCLE FOR STATIONARY FIRE PUMP ENGINES**

[As stated in §60.4210(g), manufacturers of fire pump engines may use the following test cycle for testing fire pump engines:]

Mode No.	Engine speed <sup>1</sup>	Torque (percent) <sup>2</sup>	Weighting factors
1 .....	Rated .....	100	0.30
2 .....	Rated .....	75	0.50
3 .....	Rated .....	50	0.20

<sup>1</sup> Engine speed: ±2 percent of point.

<sup>2</sup> Torque: NFPA certified nameplate HP for 100 percent point. All points should be ±2 percent of engine percent load value.

**TABLE 7 TO SUBPART IIII OF PART 60—REQUIREMENTS FOR PERFORMANCE TESTS FOR STATIONARY CI ICE WITH A DISPLACEMENT OF ≥30 LITERS PER CYLINDER**

[As stated in §60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of ≥30 liters per cylinder:]

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. Stationary CI internal combustion engine with a displacement of ≥30 liters per cylinder.	a. Reduce NO <sub>x</sub> emissions by 90 percent or more.	i. Select the sampling port location and the number of traverse points;  ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;  iii. If necessary, measure moisture content at the inlet and outlet of the control device; and,	(1) Method 1 or 1A of 40 CFR part 60, appendix A.  (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A.  (3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see §60.17).	(a) Sampling sites must be located at the inlet and outlet of the control device.  (b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for NO <sub>x</sub> concentration.  (c) Measurements to determine moisture content must be made at the same time as the measurements for NO <sub>x</sub> concentration.

**Part 60, Subpt. III, Table 7**

**40 CFR Ch. I (7–1–10 Edition)**

[As stated in § 60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of ≥30 liters per cylinder.]

For each	Complying with the requirement to	You must	Using	According to the following requirements
	b. Limit the concentration of NO <sub>x</sub> in the stationary CI internal combustion engine exhaust.	iv. Measure NO <sub>x</sub> at the inlet and outlet of the control device.  i. Select the sampling port location and the number of traverse points;  ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location; and,  iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and,  iv. Measure NO <sub>x</sub> at the exhaust of the stationary internal combustion engine.	(4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see § 60.17).  (1) Method 1 or 1A of 40 CFR part 60, appendix A.  (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A.  (3) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see § 60.17).  (4) Method 7E of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03 (incorporated by reference, see § 60.17).	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.  (a) If using a control device, the sampling site must be located at the outlet of the control device.  (b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurement for NO <sub>x</sub> concentration.  (c) Measurements to determine moisture content must be made at the same time as the measurement for NO <sub>x</sub> concentration.
	c. Reduce PM emissions by 60 percent or more.	i. Select the sampling port location and the number of traverse points;  ii. Measure O <sub>2</sub> at the inlet and outlet of the control device;  iii. If necessary, measure moisture content at the inlet and outlet of the control device; and  iv. Measure PM at the inlet and outlet of the control device.	(1) Method 1 or 1A of 40 CFR part 60, appendix A.  (2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A.  (3) Method 4 of 40 CFR part 60, appendix A.  (4) Method 5 of 40 CFR part 60, appendix A.	(d) NO <sub>x</sub> concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.  (a) Sampling sites must be located at the inlet and outlet of the control device.  (b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration.  (c) Measurements to determine and moisture content must be made at the same time as the measurements for PM concentration.  (d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.
	d. Limit the concentration of PM in the stationary CI internal combustion engine exhaust.	i. Select the sampling port location and the number of traverse points;	(1) Method 1 or 1A of 40 CFR part 60, appendix A.	(a) If using a control device, the sampling site must be located at the outlet of the control device.

**Environmental Protection Agency**

**Part 60, Subpt. III, Table 8**

[As stated in § 60.4213, you must comply with the following requirements for performance tests for stationary CI ICE with a displacement of  $\geq 30$  liters per cylinder.]

For each	Complying with the requirement to	You must	Using	According to the following requirements
		ii. Determine the O <sub>2</sub> concentration of the stationary internal combustion engine exhaust at the sampling port location; and iii. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and iv. Measure PM at the exhaust of the stationary internal combustion engine.	(2) Method 3, 3A, or 3B of 40 CFR part 60, appendix A.  (3) Method 4 of 40 CFR part 60, appendix A.  (4) Method 5 of 40 CFR part 60, appendix A.	(b) Measurements to determine O <sub>2</sub> concentration must be made at the same time as the measurements for PM concentration. (c) Measurements to determine moisture content must be made at the same time as the measurements for PM concentration. (d) PM concentration must be at 15 percent O <sub>2</sub> , dry basis. Results of this test consist of the average of the three 1-hour or longer runs.

**TABLE 8 TO SUBPART III OF PART 60—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART III**

[As stated in § 60.4218, you must comply with the following applicable General Provisions:]

General Provisions citation	Subject of citation	Applies to subpart	Explanation
§ 60.1	General applicability of the General Provisions.	Yes.	
§ 60.2	Definitions	Yes	Additional terms defined in § 60.4219.
§ 60.3	Units and abbreviations	Yes.	
§ 60.4	Address	Yes.	
§ 60.5	Determination of construction or modification.	Yes.	
§ 60.6	Review of plans	Yes.	
§ 60.7	Notification and Recordkeeping	Yes	Except that § 60.7 only applies as specified in § 60.4214(a).
§ 60.8	Performance tests	Yes	Except that § 60.8 only applies to stationary CI ICE with a displacement of ( $\geq 30$ liters per cylinder and engines that are not certified).
§ 60.9	Availability of information	Yes.	
§ 60.10	State Authority	Yes.	
§ 60.11	Compliance with standards and maintenance requirements.	No	Requirements are specified in subpart III.
§ 60.12	Circumvention	Yes.	
§ 60.13	Monitoring requirements	Yes	Except that § 60.13 only applies to stationary CI ICE with a displacement of ( $\geq 30$ liters per cylinder).
§ 60.14	Modification	Yes.	
§ 60.15	Reconstruction	Yes.	
§ 60.16	Priority list	Yes.	
§ 60.17	Incorporations by reference	Yes.	
§ 60.18	General control device requirements	No.	
§ 60.19	General notification and reporting requirements.	Yes.	