

40 CFR part 63, subpart ZZZZ
National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Summary of Requirements

Engine Category	Date Constructed	Compliance Date	Emission Limitations, Management Practices, and Other Requirements	Operating Limitations	Fuel Requirements	Performance Tests	Monitoring, Installation, Operation and Maintenance Requirements	Initial Compliance	Continuous Compliance	Notification Requirements	Recordkeeping Requirements	Reporting Requirements	General Provisions (40 CFR part 63)
Stationary RICE at Area Sources													
STEP 1a - Existing Area Sources													
Existing Stationary Engine <500 HP Located at Area Sources of HAP													
Emergency CI	Before 6/12/2006	5/3/2013	63.6603(a), Table 2d	No Requirements	>100 HP, <30 l/cyl AND >15 hrs/yr for emergency DR: 63.6604(b)	No Requirements	63.6625(e), (f), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c))	>100 HP and >15 hrs/yr for emergency DR: 63.6650(b). All engines: Footnote 2 of Table 2d	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Non-Emergency CI 300-HP-500	Before 6/12/2006	5/3/2013	63.6603(a)-(e), Table 2d ^a	No Requirements	<300 HP with displacement <30 l/cyl: 63.6604(a)	63.6612, 63.6620, Table 4, Table 5	63.6625(h), >300 HP: 63.6625(g)	63.6630, Table 5	63.6605, 63.6640	63.6645	63.6655 (except 63.6655(c) and (f))	63.6650 (except 63.6650(g))	Yes
Non-Emergency CI <300 HP	Before 6/12/2006	5/3/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c) and (f))	No Requirements	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Emergency SI	Before 6/12/2006	10/19/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (f), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c))	>100 HP and >15 hrs/yr for emergency DR: 63.6650(b). All engines: Footnote 2 of Table 2d	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Non-Emergency SI 4SLB	Before 6/12/2006	10/19/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c) and (f))	No Requirements	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Non-Emergency SI 2SLB	Before 6/12/2006	10/19/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c) and (f))	No Requirements	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Non-Emergency SI 4SRB	Before 6/12/2006	10/19/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c) and (f))	No Requirements	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Non-Emergency Landfill/Digester Gas	Before 6/12/2006	10/19/2013	63.6603(a), Table 2d	No Requirements	No Requirements	No Requirements	63.6625(e), (h), (i)	No Requirements	63.6605, 63.6640	No Requirements	63.6655 (except 63.6655(c) and (f))	No Requirements	Yes, except per 63.6645(a)(5), the following do not apply: 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), and 63.9(b)-(e), (g) and (h).
Residential Commercial/Institutional Emergency CI	Before 6/12/2006	5/3/2013		These engines are subject to the requirements in 40 CFR 63.6640(f). No other requirements apply.									
Residential Commercial/Institutional Emergency SI	Before 6/12/2006	10/19/2013		These engines are subject to the requirements in 40 CFR 63.6640(f). No other requirements apply.									

^aNote that engines that meet the conditions in 63.6603(b)(1) or (b)(2) must meet management practices for non-emergency CI engines <300 HP in Table 2d.

^bNote that an engine located on an offshore vessel and is a nonroad vehicle that is an Outer Continental Shelf (OCS) is subject to management practices specified at 63.6603(c).

^cNote that certain engines covered under 40 CFR part 63, subpart ZZZZ, may be subject to additional requirements under 40 CFR part 60, subparts IIII and JJJJ.

^dFor assistance in determining the potential to emit, please refer to <http://www.epa.gov/tm/chief/ap42/index.html> or contact your EPA regional office or state permitting staff. To determine the potential to emit, you may use emission factors from <http://www.epa.gov/tm/chief/ap42/ch03/index.html>, test data, or other published information.

^eNote emergency engines have to comply with the definition of an emergency stationary RICE, which includes being operated per the requirements in 40 CFR 63.6640(f).

Abbreviations:
CI-Compression Ignition
SI-Spark Ignition
4SLB-4 Stroke Lean Burn
2SLB-2 Stroke Lean Burn
4SRB-4 Stroke Rich Burn