Appendix 40 CFR Part 63, Subpart ZZZZ (through 03-09-11 FR Amendments)
National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Summary of Requirements

| Engine Category | Date Constructed | Compliance Date | Emission Limitations | Operating Limitations | Fuel Requirements | Performance Tests | Monitoring, Installation, Collection, Operation and Maintenance Requirements | Initial Compliance | Continuous Compliance | Notification Requirements | Recordkeeping Requirements | Reporting Requirements | General Provisions (40 CFR part 63) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Stationary RICE at Major Sources** | | | | | | | | | | | | | |
| **Existing Stationary Engine ≤500 HP Located at Major Source of HAP** | | | | | | | | | | | | | |
| Emergency CI | Before 6/12/2006 | 5/3/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (f), (h), (i) | No Requirements | 63.6605 63.6640 Table 6 | No Requirements | 63.6655 (except 63.6655(c)) | Footnote 1 of Table 2c | 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 <100 HP | Before 6/12/2006 | 5/3/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625 (e), (h), (i) | No Requirements | 63.6605 63.6640 Table 6 | 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 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (f), (h), (j) | No Requirements | 63.6605 63.6640 Table 6 | No Requirements | 63.6655 (except 63.6655(c)) | Footnote 1 of Table 2c | 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 100≤HP≤500 | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | 63.6612 63.6620 Table 4 Table 5 | 63.6625(h) | 63.6630 Table 5 | 63.6605 63.6640 Table 6 | 63.6645 | 63.6655 (except 63.6655(c), (e), and (f)) | 63.6650 (except 63.6650(g)) | Yes |
| Non-Emergency SI 4SLB <100 HP | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (h), (j) | No Requirements | 63.6605 63.6640 Table 6 | 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 100≤HP≤500 | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | 63.6612 63.6620 Table 4 Table 5 | 63.6625(h) | 63.6630 Table 5 | 63.6605 63.6640 Table 6 | 63.6645 | 63.6655 (except 63.6655(c), (e), and (f)) | 63.6650 (except 63.6650(g)) | Yes |
| Non-Emergency SI 2SLB <100 HP | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (h), (j) | No Requirements | 63.6605 63.6640 Table 6 | 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 100≤HP≤500 | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | 63.6612 63.6620 Table 4 Table 5 | 63.6625(h) | 63.6630 Table 5 | 63.6605 63.6640 Table 6 | 63.6645 | 63.6655 (except 63.6655(c), (e), and (f)) | 63.6650 (except 63.6650(g)) | Yes |
| Non-Emergency SI 4SRB <100 HP | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (h), (j) | No Requirements | 63.6605 63.6640 Table 6 | 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 100≤HP≤500 | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | 63.6612 63.6620 Table 4 Table 5 | 63.6625(h) | 63.6630 Table 5 | 63.6605 63.6640 Table 6 | 63.6645 | 63.6655 (except 63.6655(c), (e), and (f)) | 63.6650 (except 63.6650(g)) | Yes |
| Non-Emergency Landfill/Digester Gas <100 HP | Before 6/12/2006 | 10/19/2013 | 63.6602 Table 2c | No Requirements | No Requirements | No Requirements | 63.6625(e), (h), (j) | No Requirements | 63.6605 63.6640 Table 6 | 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). |
| **Existing Stationary Engine >500 HP Located at Major Source of HAP** | | | | | | | | | | | | | |

Appendix 40 CFR Part 63, Subpart ZZZZ (through 03-09-11 FR Amendments)
National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

Summary of Requirements

| Engine Category | Date Constructed | Compliance Date | Emission Limitations | Operating Limitations | Fuel Requirements | Performance Tests | Monitoring, Installation, Collection, Operation and Maintenance Requirements | Initial Compliance | Continuous Compliance | Notification Requirements | Recordkeeping Requirements | Reporting Requirements | General Provisions (40 CFR part 63) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Limited Use** | **Before 12/19/2002** | **No Requirements** | | | | | | | | | | | |
| **Emergency** | **Before 12/19/2002** | **These engines are subject to the requirements in 40 CFR 63.6640(f). No other requirements apply.** | | | | | | | | | | | |
| **Non-Emergency CI** | **Before 12/19/2002** | **5/3/2013** | **63.6600(d) Table 2c** | **63.6600(d) Table 2b** | **>300 HP and <30 l/cyl:63.6604** | **63.6610 63.6615 63.6620 Table 3 Table 4 Table 5** | **63.6625(a), (b), (g), (h)** | **63.6630 Table 5** | **63.6605 63.6635 63.6640 Table 6** | **63.6645** | **63.6655 (except 63.6655(c), (e), and (f))** | **63.6650 (except 63.6650(g))** | **Yes** |
| **Non-Emergency SI 4SLB** | **Before 12/19/2002** | **6/15/2007** | **No Requirements** | | | | | | | | | | |
| **Non-Emergency SI 2SLB** | **Before 12/19/2002** | **6/15/2007** | **No Requirements** | | | | | | | | | | |
| **Non-Emergency SI 4SRB** | **Before 12/19/2002** | **6/15/2007** | **63.6600(a) Table 1a** | **63.6600(a) Table 1b** | **No Requirements** | **63.6610 63.6615 63.6620 Table 3 Table 4 Table 5** | **63.6625(a), (b), (h)** | **63.6630 Table 5** | **63.6605 63.6635 63.6640 Table 6** | **63.6645** | **63.6655 (except 63.6655(c), (e), and (f))** | **63.6650 (except 63.6650 (g))** | **Yes** |
| **Landfill/Digester Gas** | **Before 12/19/2002** | **No Requirements** | | | | | | | | | | | |

[a]Note 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.

[b]For assistance in determining the potential to emit, please refer to http://www.epa.gov/ttn/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/ttn/chief/ap42/ch03/index.html, test data, or other published information.

cFor reference information, refer to http://www.epa.gov/ttn/atw/rice/ricepg.html - Implementing Information - 12-03-2010 - RICE Summary Table of Requirements. Revisions to the table were made by the FDEP SW District to reflect the amendments made in the 03-09-11 Federal Register.

**[c]Note 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