Summary of NESHAP 40 CFR Part 63 Subpart ZZZZ Applicable Requirements for Existing Stationary Reciprocating Internal Combustion Engines (RICE) at Area Sources of HAP

Engine Category	Date Constructed	Emission Limitations	Operating/ Maintenance Requirements	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 Area Sources												
Existing Stationary Engine ≤500 HP Located at Area Sources of HAP												
Emergency CI	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 4.	No Requirements	No Requirements	63.6625(e), (f), (h), (i)	No Requirements	63.6640(a)(b)(e) (f) Table 6,Item 9	No Requirements	63.6655(d)(e)(f)	No requirements	Yes
Non-Emergency CI 300<HP≤500	Before 6/12/2006	63.6603(a) Table 2d, Item 2.	66.6603 Table 2b	>300 HP with displacement <30 l/cyl: 63.6604	63.6612, 63.6615 63.6620, Table 4, Items 1&3	63.6625(e), (h), +(g) if ≥300 HP	63.6630 Table 5, Items 8&9	63.6640(a)(b)(e)	63.6645	63.6655(a)	63.6650(a)-(f) Table7, Item 1	Yes
Non-Emergency CI ≤300 HP	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 1.	No Requirements	No Requirements	63.6625(e), (h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)(e)	No requirements	Yes
SI 4SLB	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 7.	No Requirements	No Requirements	63.6625(e), (h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
SI 2SLB	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 6.	No Requirements	No Requirements	63.6625(e), (h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
SI 4SRB	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 9.	No Requirements	No Requirements	63.6625(e), (h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
Landfill/Digester Gas	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 11.	No Requirements	No Requirements	63.6625(e), (h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
Residential/Commerical/Institutional Emergency	Before 6/12/2006	No Requirements										
Existing Stationary Engine >500 HP Located at Area Sources of HAP												
Emergency CI	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 4.	No Requirements	No Requirements	63.6625(e), (f), (h)	No Requirements	63.6640(a)(b)(e) (f) Table 6,Item 9	No Requirements	63.6655(d)(e)(f)	63.6650 (except 63.6650(g))	Yes
Non-Emergency CI	Before 6/12/2006	63.6603(a) Table 2d, Item 3.	63.6603 Table 2b	>300 HP with displacement <30 l/cyl: 63.6604	63.6612, 63.6615 63.6620 Table 4, Items 1&3	63.6625(g), (h)	63.6630 Table 5, Items 1-3	63.6640(a)(b)(e) Table 6, Items 3, 10, 11, 12 or 13	63.6645	63.6655(a)(b)(d)	63.6650(a)-(f) Table7, Item 1	Yes
SI 4SLB	Before 6/12/2006	63.6603(a) Table 2d, Item 8.	66.6603 Table 2b	No Requirements	63.6612, 63.6615 63.6620, Table 4, Items 1&3	63.6625(h)	63.6630 Table 5, Items 1-3	63.6640(a)(b)(e) Table 6, Items 3, 10, 11, 12 or 13	63.6645	63.6655(a)(b)(d)	63.6650(a)-(f) Table7, Item 1	Yes
SI 2SLB	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 6.	No Requirements	No Requirements	63.6625(h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
SI 4SRB	Before 6/12/2006	63.6603(a) Table 2d, Item 10.	66.6603 Table 2b	No Requirements	63.6612, 63.6615 63.6620, Table 4, Items 1&3	63.6625(h)	63.6630 Table 5, Items 4-7	63.6640(a)(b)(e) Table 6, Items 10, 11, 12 or 13	63.6645	63.6655(a)(d)	63.6650(a)-(f) Table7, Item 1	Yes
Landfill/Digester Gas	Before 6/12/2006	No Requirements	63.6603(a) Table 2d, Item 11.	No Requirements	No Requirements	63.6625(h)	No Requirements	63.6640(a)(b)(e) Table 6, Item 9	No Requirements	63.6655(d)	No requirements	Yes
Residential/Commerical/Institutional Emergency	Before 6/12/2006	No Requirements										

Source: Created by the DEP SW District Office based on US EPA Technology Transfer Network Air Toxics Website - NESHAP for Reciprocating Internal Combustion Engines *(Subpart ZZZ)* Implementation Information - 7/2/10 RICE Summary Table of Requirements, as revised by the DEP SW District to incorporate the 08/20/10 amendments to 40 CFR 63 Subpart ZZZZ.

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