

Major Source, New, NESHAP ZZZZ Engine Requirements

Compliance On/After Startup: greater than 500hp - 8/16/2004 less than/equal to 500hp - 1/18/2008

Records: Keep records for 5 yrs that show compliance (notifications, reports, tests, maintenance, etc)

In addition to all limits listed, all engines also subject to NSPS IIII or NSPS JJJJ

Notifications & Reports

HP	CI/Diesel	2-Stroke Lean Burn	4-Stroke Lean Burn	4-Stroke Rich Burn	Landfill & Digester Gas	Emergency RICE	Limited Use RICE
hp < 100	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
100 ≤ hp < 250	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
250 ≤ hp ≤ 500	NSPS IIII	NSPS JJJJ	a, d	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
> 500	a, d	a, d		a, d	b, c, d	b, d	b, d
a	Initial Notification, Notice of Performance Test (60 days before), Notification of Compliance Status (within 60 days of test), Semiannual Compliance Report (annual if operates < 100hrs/yr).						
b	Initial Notification.						
c	Annual Report of fuel usage.						
d	Also subject to NSPS IIII or NSPS JJJJ.						

Emission Limits & Performance Tests

HP	CI/Diesel	2-Stroke Lean Burn	4-Stroke Lean Burn	4-Stroke Rich Burn	Landfill & Digester Gas	Emergency RICE	Limited Use RICE
hp < 100	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
100 ≤ hp < 250	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
250 ≤ hp ≤ 500	NSPS IIII	NSPS JJJJ	14 ppm CH ₂ O or 93% CO↓, e, g	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
> 500	580 ppb CH ₂ O or 70% CO↓, e, g	12 ppm CH ₂ O or 58% CO↓, e, g		350 ppb CH ₂ O or reduction, f, g	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
e	Indicated CO limit or indicated CO reduction; initial performance test (due 180 days after startup, 240 days if 4SLB <500hp), subsequent performance tests semiannually (annually after two successful semiannual tests).						
f	350 ppbvd CH ₂ O limit, 76% CH ₂ O reduction, or 30% THC reduction; initial performance test (due by 12/12/2007), then subsequent performance tests semiannually (not required if reducing CH ₂ O or THC and < 5,000 hp).						
g	Also subject to NSPS IIII or NSPS JJJJ						

Operating Limits & Maintenance Requirements

HP	CI/Diesel	2-Stroke Lean Burn	4-Stroke Lean Burn	4-Stroke Rich Burn	Landfill & Digester Gas	Emergency RICE	Limited Use RICE
hp < 100	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
100 ≤ hp < 250	NSPS IIII	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
250 ≤ hp ≤ 500	NSPS IIII	NSPS JJJJ	h, i, j, m, n	NSPS JJJJ	NSPS JJJJ	NSPS IIII or JJJJ	NSPS IIII or JJJJ
> 500	h, i, j, n	h, i, j, n	h, i, j, n	h, i, k, n	h, l, n	NSPS IIII or JJJJ	NSPS IIII or JJJJ
h	Minimize idle time during startup (startup not to exceed 30 mins), then normal emission standards apply.						
i	If catalyst is installed, catalyst pressure drop ≤ 2 inH ₂ O @ 100% load ±10% of performance test; & measure monthly.						
j	If catalyst is installed, 450°F ≤ catalyst inlet temperature ≤ 1,350°F; continuously monitored; & conduct annual system audit.						
k	If catalyst is installed, 750°F ≤ catalyst inlet temperature ≤ 1,250°F; continuously monitored; & conduct annual system audit.						
l	Monitor and record daily fuel usage via separate fuel meters measuring the volumetric flow rate of each fuel.						
m	Install a non-resettable hour meter.						
n	Also subject to NSPS IIII or NSPS JJJJ.						