

OCT 1 9 2015

Billy Ferguson, Environmental Manager Arkansas Steel Associates, LLC 2803 Van Dyke Road Newport, AR 72112

Dear Mr. Ferguson:

The enclosed Permit No. 0035-AOP-R13 is your authority to construct, operate, and maintain the equipment and/or control apparatus as set forth in your application initially received on 7/15/2015.

After considering the facts and requirements of A.C.A. §8-4-101 et seq. as referenced by §8-4-304, and implementing regulations, I have determined that Permit No. 0035-AOP-R13 for the construction and operation of equipment at Arkansas Steel Associates, LLC shall be issued and effective on the date specified in the permit, unless a Commission review has been properly requested under Arkansas Department of Pollution Control & Ecology Commission's Administrative Procedures, Regulation 8, within thirty (30) days after service of this decision.

The applicant or permittee and any other person submitting public comments on the record may request an adjudicatory hearing and Commission review of the final permitting decisions as provided under Chapter Six of Regulation No. 8, Administrative Procedures, Arkansas Pollution Control and Ecology Commission. Such a request shall be in the form and manner required by Regulation 8.603, including filing a written Request for Hearing with the APC&E Commission Secretary at 101 E. Capitol Ave., Suite 205, Little Rock, Arkansas 72201. If you have any questions about filing the request, please call the Commission at 501-682-7890.

Sincerely,

Stuart Spencer Associate Director, Office of Air Quality

Enclosure: Final Permit

ADEQ OPERATING AIR PERMIT

Pursuant to the Regulations of the Arkansas Operating Air Permit Program, Regulation 26:

Permit No.: 0035-AOP-R13

IS ISSUED TO:

Arkansas Steel Associates, LLC 2803 Van Dyke Road Newport, AR 72112 Jackson County AFIN: 34-00033

THIS PERMIT AUTHORIZES THE ABOVE REFERENCED PERMITTEE TO INSTALL, OPERATE, AND MAINTAIN THE EQUIPMENT AND EMISSION UNITS DESCRIBED IN THE PERMIT APPLICATION AND ON THE FOLLOWING PAGES. THIS PERMIT IS VALID BETWEEN:

March 9, 2011 AND March 8, 2016

THE PERMITTEE IS SUBJECT TO ALL LIMITS AND CONDITIONS CONTAINED HEREIN.

Signed:

OCT 1 9 2015

Stuart Spencer Associate Director, Office of Air Quality Date

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List of Acronyms and Abbreviations

Ark. Code Ann.	Arkansas Code Annotated
AFIN	ADEQ Facility Identification Number
C.F.R.	Code of Federal Regulations
СО	Carbon Monoxide
HAP	Hazardous Air Pollutant
lb/hr	Pound Per Hour
MVAC	Motor Vehicle Air Conditioner
No.	Number
NO _x	Nitrogen Oxide
PM	Particulate Matter
PM_{10}	Particulate Matter Smaller Than Ten Microns
SNAP	Significant New Alternatives Program (SNAP)
SO_2	Sulfur Dioxide
SSM	Startup, Shutdown, and Malfunction Plan
Тру	Tons Per Year
UTM	Universal Transverse Mercator
VOC	Volatile Organic Compound

SECTION I: FACILITY INFORMATION

PERMITTEE:	Arkansas Steel Associates, LLC
AFIN:	34-00033
PERMIT NUMBER:	0035-AOP-R13
FACILITY ADDRESS:	2803 Van Dyke Road Newport, AR 72112
MAILING ADDRESS:	2803 Van Dyke Road Newport, AR 72112
COUNTY:	Jackson County
CONTACT NAME:	Billy Ferguson
CONTACT POSITION:	Environmental Manager
TELEPHONE NUMBER:	(870) 523-3693
REVIEWING ENGINEER:	Shawn Hutchings
UTM North South (Y):	Zone 15: 3946063.33 m
UTM East West (X):	Zone 15: 658918.87 m

SECTION II: INTRODUCTION

Summary of Permit Activity

Arkansas Steel Associates, LLC (hereinafter "Arkansas Steel or "ASA") located at 2803 Van Dyke Road in Newport, Arkansas owns and operates a steel mill. This permit adds a 30 mmBTU/hr natural gas fired EAF Shell Burner, SN-01b, and a gasoline tank, SN-20.

Regulations

The following table contains the regulations applicable to this permit.

Regulations
Arkansas Air Pollution Control Code, Regulation 18, effective June 18, 2010
Regulations of the Arkansas Plan of Implementation for Air Pollution Control, Regulation 19, effective September 13, 2014
Regulations of the Arkansas Operating Air Permit Program, Regulation 26, effective November 18, 2012
40 CFR 52.21, Prevention of Significant Deterioration
40 CFR Part 60 Subpart AA-Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and on or Before August 17, 1983.
40 CFR part 60 Subpart JJJJ – Standards of Performance for Stationary Spark Ignition Internal Combustion Engines
40 CFR Part 63, Subpart ZZZZ, National Emission Standards for Hazardous Air Pollutants for Reciprocating Internal Combustion Engines
40 CFR Part 63, Subpart YYYYY, National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steel Making Facilities
40 CFR Part 63, Subpart CCCCCC, National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities
40 CFR Part 64, Compliance Assurance Monitoring

Emission Summary

The following table is a summary of emissions from the facility. This table, in itself, is not an enforceable condition of the permit.

	EMISSION SUMMARY					
Source	Description	Pollutant		on Rates		
Number	Description	Tonutant	lb/hr	tpy		
		РМ	23.5	79.3		
		PM_{10}	18.6	66. <u>1</u> 2		
		SO_2	42.6	153		
Tota	l Allowable Emissions	VOC	171.6	97.4		
		CO	475.0	1797.0		
		NO _x	82.1	242.0		
		Pb	0.41	1.52		
		Arsenic	0.0005	0.002		
		Cadmium	0.0004	0.002		
	HAPs	Manganese	0.03	0.08		
		HAPs	0.3	0.2		
		РМ	11.3	49.2		
		\mathbf{PM}_{10}	11.3	49.2		
		SO_2	41.0	152.0		
		VOC	25.0	92.0		
SN-01	EAE Dochouse	CO	420.0	1600.0		
210-01	EAF Baghouse	NO _x	50.0	181.5		
		Pb	0.4	1.5		
		Arsenic	0.0005	0.002		
		Cadmium	0.0004	0.002		
		Manganese	0.03	0.08		
		PM	0.3	1.0		
		PM_{10}	0.3	1. <mark>40</mark>		
		SO_2	0.1	0.1		
SN-01b	EAF Shell Burner	VOC	0.2	0.8		
		CO	2.6	11.1		
		NO _x	1.5	6.6		
		HAPs	0.1	0.1		
		PM	1.0	4.5		
SN-03	Ladle Metallurgy Station	\mathbf{PM}_{10}	0.8	3.4		
		СО	42.0	160.0		

EMISSION SUMMARY				
Source	Description	Pollutant	Emissio	on Rates
Number	Description	Pollutant	lb/hr	tpy
		PM	1.0	4.2
		PM_{10}	1.0	4.2
SN 04	Debeet Furnese	SO_2	0.1	0.2
SN-04	Reheat Furnace	VOC	0.4	1.7
		CO	4.3	18.0
		NO _x	14.0	43.0
		PM	0.2	0.7
		PM_{10}	0.2	0.7
CNI 05		SO_2	0.1	0.1
SN-05	Ladle Preheaters	VOC	0.1	0.4
		СО	1.4	5.9
		NO _x	1.6	7.0
GNT 00		PM	1.9	8.2
SN-08	Unpaved Roads	\mathbf{PM}_{10}	0.4	1.6
CNI 00		PM	0.6	2.0
SN-09	Paved Roads	PM_{10}	0.3	1.0
GNI 10		PM	5.7	8.3
SN-10	Slag Processing	PM_{10}	2.9	4.1
		PM	0.2	0.5
SN-11	Baghouse Dust Handling	PM_{10}	0.1	0.2
		Pb	0.01	0.02
SN-13	Tie Plate Dipping Process	VOC	141.6	1.7
		PM	0.4	0.1
		PM_{10}	0.4	0.1
SN-14	LMS/FCE Emergency	SO_2	0.4	0.1
SIN-14	Generator	VOC	0.5	0.1
		CO	1.2	0.2
		NO _x	5.3	0.8
		PM	0.2	0.1
		PM_{10}	0.2	0.1
CNI 15	DEC Cooling Water	SO ₂	0.2	0.1
SN-15	Emergency Generator	VOC	0.3	0.1
		СО	1.0	0.1
		NO _x	2.7	0.4

EMISSION SUMMARY				
Source	Description	Pollutant	Emissio	on Rates
Number	Description	Tonutant	lb/hr	tpy
		PM	0.4	0.1
		PM_{10}	0.4	0.1
SN-16	Reheat Furnace	SO_2	0.4	0.1
SIN-10	Emergency Generator	VOC	0.5	0.1
		CO	1.2	0.2
		NO _x	5.4	1.0
		PM	0.1	0.1
		PM_{10}	0.1	0.1
SN-17	Emergency Lighting	SO_2	0.1	0.1
SIN-17	Generators	VOC	0.1	0.1
		CO	0.2	0.1
		NO _x	1.1	0.1
		PM	0.1	0.1
		PM_{10}	0.1	0.1
SN-18	Emergency Water Spray	SO_2	0.1	0.1
SIN-10	Emergency Generator	VOC	0.1	0.1
		CO	0.8	0.1
		NO _x	0.1	0.1
		PM	0.1	0.2
		\mathbf{PM}_{10}	0.1	0.2
CN 10	Ladle and Tundish Drying	SO_2	0.1	0.1
SN-19	System	VOC	0.1	0.1
		СО	0.3	1.3
		NOx	0.4	1.5
SN-20	Gasoline Tank	VOC	2.7	0.2
011-20	Gasonne Fank	HAPs	0.2	0.1

*HAPs included in the VOC totals. Other HAPs are not included in any other totals unless specifically stated.

**Air Contaminants such as ammonia, acetone, and certain halogenated solvents are not VOCs or HAPs.

SECTION III: PERMIT HISTORY

The facility began operations in 1971, and Arkansas Steel Associates (ASA) purchased the facility in 1989 from Razorback Steel Corporation. The mill had two electric arc furnaces with a holding capacity of 35 tons each. The furnaces were equipped with side draft hoods for evacuating the emissions during melting and refining.

In December of 1993, emission testing was done on the EAF baghouse, melt shop roof monitor, caster, and the reheat furnace, for the purpose of establishing an emission baseline.

Permit 35-A

Permit 35-A was issued on November 20, 1970.

Permit 174-A

Permit 174-A was issued on December 22, 1973 to Tennessee Forging Steel Corp. At some point the name on the permit was changed to Razorback Steel Corp. This permit states it supersedes permit 35-A.

Permit 35-AR-1

This permit was on September 20, 1985. This permit stated it rescinded both permit 35-A and 174-A.

Another permit, 35-AR-1, was issued on August 28, 1987. This permit added maintenance requirements for the EAF Baghouse.

Permit 35-AR-2

Permit 35-AR-2 was issued on October 31, 1989. This permit was a transfer of ownership to Arkansas Steel Corp from Razorback Steel. It has the same conditions as the second permit 35-AR-1.

Permit 35-AR-3

On 6/2/94, Permit #35-AR-3 was issued for the installation of a used 50 ton electric arc furnace, and utilizing the existing arc furnaces as a ladle metallurgy station. The installation of the new EAF increased the mill's production capacity and affected the potential emissions from most sources at the mill. One source not affected by this project was the reheat furnace. Although a ladle metallurgy station (LMS) was proposed in the application for 35-AR-3, that source was never constructed. When permit 35-AR-3 was issued in 1994, it was believed that the modernization project did not constitute a "major modification" as defined in 40 CFR 52.21. Emissions were estimated based on standard EPA estimation methods and field testing, and the

proposed emission increases were less than the major modification thresholds in 40 CFR 52.21(b)(23)(i).

The new electric arc furnace was purchased from the Armco facility at Baltimore Works second hand at a capital cost of less than 50% of the capital cost of a new electric arc furnace. The reconstruction cost was estimated at \$5,095,498, while the cost of a new furnace was estimated at \$14,275,998. Despite this cost analysis, the arc furnace was constructed at the Armco facility during the applicable period of 40 CFR Subpart AA--Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and On or Before August 17, 1983. It is the Department's contention that this is construction of an affected facility and therefore subject to the above referenced regulation.

Permit 35-AOP-R0

After the new EAF was installed and began operating, the facility was tested for PM, CO, and NO_x emissions. Results of testing on January 5 and 6, 1995, indicated that actual emissions of CO and NO_x were substantially greater than original estimates. ASA then was required to submit a PSD application. This application triggered the baseline date for NO₂ and SO₂. The minor source baseline date (NO₂ and SO₂) is 5/10/96 for Jackson County. Permit 35-AOP-R0 was issued on 9/24/98. This permit was the first Title V Operating Air Permit and the first PSD permit issued for this facility. This permit also included an EPA approved alternative monitoring plan for the EAF baghouse. This alternative monitoring plan included daily opacity observations on the melt shop emissions as a substitute for electric arc furnace pressure monitoring. This alternative monitoring plan was approved by this Department and the EPA Region VI.

Summary of PSD Issues Addressed in Permit 35-AOP-R0

In 1994, ASA requested authorization from this Department to modernize the facility and increase production capacity. At that time, ASA proposed that a used 50 ton electric arc furnace (EAF) be installed and the existing EAF be converted to a ladle metallurgy station (LMS). The proposed modification was authorized June 2, 1994, with permit No. 35-AR-3. The 50 ton EAF was subsequently installed and began operating. The proposed conversion of the old EAF to a LMS had not yet occurred.

The installation of the new EAF increased production capacity and affected the potential emissions from most sources at the mill. Emissions from the EAF and meltshop fugitives were affected by the changes to the operations and production capacity increase. The existing natural gas fired ladle preheaters were modernized, and a third preheater was added. Fugitive emissions from roads increased due to increased traffic. The increased production capacity also increased the potential emissions from slag processing and baghouse dust handling operations.

One source not affected by the 1994 project was the reheat furnace. Potential throughput and emissions from the reheat furnace were not affected, so the reheat furnace was not included in the sources affected by PSD issues addressed in ASA's Title V Operating Air Permit No. 35-AOP-R0.

When the permit application was prepared in 1994, it was believed that the modernization project did not constitute a major modification as defined in 40 CFR 52.21 because the estimated emission increases were less than the significant levels. After permit 35-AR-3 was issued, the testing showed emission rate increases greater than the PSD significant levels; therefore, permit 35-AOP-R0 was a retroactive PSD permitting action.

Arkansas Steel is considered a major stationary source under the prevention of significant (PSD) regulations. Sulfur dioxide (SO₂), carbon monoxide (CO), nitrogen dioxide (NO₂), and volatile organic compound (VOC) emission increases associated with the 1994 modifications were 122 tpy, 777.9 tpy, 191.7 tpy, and 44 tpy, respectively. These increases exceeded the PSD significance levels and were subject to PSD review. Emission increases of 44 tpy volatile organic compounds (VOC) associated with the 1994 modification were below 100 tpy; therefore, monitoring was not required for ozone. The particulate and lead emissions decreased with the 1994 modification.

The PSD regulations mandate that a case-by-case Best Available Control Technology (BACT) analysis be performed on all sources which were directly associated with the 1994 modernization project. These sources included the electric arc furnace and the miscellaneous natural gas fired equipment. BACT was not required for the roads, slag processing, or baghouse dust handling because they do not emit a pollutant subject to PSD review. The previous reheat furnace was not affected by this project, so it was not subject to PSD review either. The BACT determination is summarized below.

	Summary of BACT Determination					
Source	Description	Pollutant	Control Technology	BACT Limit		
SN-01	Electric Arc Furnace	VOC	Direct Evacuation System (DEC) with air gap for long residence time.	0.35 lb/ton		
		SO ₂	DEC with no add-on controls	0.7 lb/ton		
		СО	DEC with air gap for CO combustion	6.0 lb/ton		
		NO _x	DEC with no add-on controls	1.0 lb/ton		
SN-05	Ladle Preheaters	VOC	Natural Gas Combustion			
SN-06 SN-07	Ladle Dryer Tundish Preheater	SO ₂		Good Combustion Practice		
514-07	i unuisii i icheatei	СО		Tactice		
		NO _x				

Permit 35-AOP-R1

Permit 35-AOP-R1 was issued on March 15, 1999, for the construction and operation of a new reheat furnace (SN-04). This new reheat furnace replaced the old reheat furnace. The new reheat furnace has a rated heat input capacity of 68 MMBtu/hr and will combust natural gas. The permittee submitted a PSD netting analysis demonstrating that the furnace replacement does not

trigger PSD review. The results of this netting demonstration (as modified) resulted in a net emission increase of 29 tpy of nitrogen oxides, which is below the significant level of 40 tpy. Consequently, this modification is not subject to PSD review. The netting analysis referred to herein was submitted to the Department as an appendix to ASA's Application for Modification of Draft Operating Air Permit, 35-AOP-R0, dated March 9, 1998, and modified by subsequent submittal in January, 1999.

Permit 35-AOP-R1 also involved several pollution control projects undertaken on the EAF baghouse system in the melt shop. These changes were a new water cooled duct, a new duct and damper coming off the EAF fourth hole, new air moving fans, a new damper valve for the canopy hood, magnehelic gauges as replacements for the existing manometric pressure sensing devices, and a computerized programmable logic control (PLC) system.

35-AOP-R2

Permit 35-AOP-R2 was issued to Arkansas Steel on June 29, 2000. This permit modification was to add a new tundish dryer, SN-12, to replace their ladle dryer, SN-06, to correctly permit SN-07, the tundish preheaters, as two separate preheaters which cannot, by design, operate simultaneously and to add the tie plate dipping process, SN-13, which was previously permitted as an insignificant activity.

35-AOP-R3

Permit 35-AOP-R3 was issued to Arkansas Steel on January 5, 2001. This modification to Arkansas Steel's permit included a Ladle Metallurgy Station, SN-03, and a production increase at the facility. Emissions of CO, PM_{10} , and lead increased above the PSD significance level and will require the facility to undergo PSD review for those pollutants. The increase in emissions from all other pollutants was below the PSD significance level.

Summary of PSD Issues Addressed in Permit 35-AOP-R3

The Arkansas Steel facility has undergone PSD review under pervious permits. Summaries of the PSD issues of these permits are in the Permit History section of this permit. This modification to the Arkansas Steel facility added the Ladle Metallurgy Station, SN-03, and an increase in production. This modification was significant only for CO, PM₁₀, and lead emissions. All other pollutants increases in emissions were below the PSD significance level.

Best Available Control Technology

The PSD regulations mandate that a case-by-case Best Available Control Technology (BACT) analysis be performed on all new or modified affected sources at which a net emissions increase will occur. The following table is a summary of the BACT determinations made in this permit for Arkansas Steel. BACT determinations for the facility made in previous permits can be found in the Permit History section of this permit.

	BACT Analysis Summary				
Source	SourceDescriptionPollutantControl TechnologyBact Limit				
01	EAF Baghouse	PM ₁₀ Lead	Baghouse Baghouse DEC with air gap for CO combustion	0.0052 gr/dscf 3% of baghouse dust 6.0 lb/ton	
03	Ladle Metallurgy Station	PM ₁₀ CO	Baghouse DEC with air gap for CO combustion	0.0052 gr/dscf 0.6 lb/ton	
04 05 06 07 12	Reheat Furnace Ladle Preheaters Ladle Dryer Tundish Preheaters Tundish Dryer	PM ₁₀ CO	Natural Gas Combustion	Good Combustion Practice	
08 09	Paved and Unpaved Roads	PM ₁₀	Water Applications	6.9 tpy	
10	Slag Processing	PM ₁₀	Water Applications	4.1 tpy	
11	Baghouse Dust Handling	PM ₁₀ lead	No feasible controls	0.4 tpy	

BACT Requirements for PM₁₀ and Lead Emissions

Particulate and lead emissions from SN-01, the electric arc furnace, EAF, are controlled by a baghouse. This is the only type of add on controls found for EAFs on the RACT/BACT/LAER clearinghouse. Since baghouses represent the highest level of particulate control, it is BACT for this source.

The emissions from SN-02, the Meltshop Fugitives, are un-captured emissions from the EAF, SN-01, the LMS, SN-03, and the natural gas combustion sources at the facility. Both the EAF and the LMS are controlled by baghouses. For the other sources, natural gas combustion is used to control particulate emissions. There were no additional controls found on the RACT/BACT/LAER clearinghouse for this type of source. The amount of airflow through the roof monitor, SN-02, make add on controls for this source unfeasible.

Particulate and lead emissions from SN-02, the Ladle Metallurgy Station (LMS), will be controlled by a baghouse. This is the only type of add on controls found for a LMS on the RACT/BACT/LAER clearinghouse. Since baghouses represent the highest level of particulate control, it is BACT for this source.

Sources SN-04, 05, 06, 07, and 12 are all combustion sources. BACT for these sources was found to be natural gas combustion to control particulate emissions.

Arkansas Steel currently employs water sprays to reduce fugitive emission from their slag processing operation, SN-10. This type of control is consistent with those found on the RACT/BACT/LAER clearinghouse and is BACT for this source.

Arkansas Steel also currently applies water to their roads to reduce fugitive emissions caused by traffic on SN-8 and 9. This type of control will provide dust suppression equal to the level of control found on the RACT/BACT/LAER clearinghouse for this type of source and is BACT for this source.

BACT Requirements for CO Emissions

The only type of controls for carbon monoxide emissions found for electric arc furnace and the ladle metallurgy station on the RACT/BACT/LAER clearinghouse was a direct evacuation chamber DEC system. This is the current method of control for the EAF at Arkansas Steel and is what will be installed on the LMS. The DEC system represents BACT for these sources.

Sources SN-04, 05, 06, 07, and 12 are all combustion sources. BACT for these sources was found to be natural gas combustion combined with good combustion practice to control carbon monoxide emissions.

35-AOP-R3 Administrative Amendment

An Administrative Amendment to 35-AOP-R3 was issued on March 9, 2001. This amendment corrected a number of typographical errors in the permit.

35-AOP-R4

Permit 35-AOP-R4 was issued on August 21, 2002. This modification to Arkansas Steel's permit changed the rated heat input capacity for the ladle preheaters, SN-05, to allow both of the tundish preheaters, SN-07, to operate simultaneously, and to add a new tundish dryer, SN-12a. The emissions from the new tundish dryer and allowing both preheaters to operate simultaneously were not large enough to trigger PSD review and did not debottleneck or increase capacity at the facility. The ladle preheater has undergone PSD review for some pollutants. The source was given PSD limits at its actual capacity.

35-AOP-R5

Permit 35-AOP-R5 was issued on January 13, 2005. This permit was the Title V renewal permit for the facility. Arkansas Steel made a few changes to the permit in the renewal. These changes included adding an additional baghouse to act in parallel with the existing baghouse for SN-01. The new baghouse has its own stack. The old baghouse still exhausts through its 16 existing stacks. With this modification the canopy hood inside the meltshop also was enlarged to increase the capture efficiency of particulate matter. Airflow is divided roughly equally between the two baghouses. There is no associated emission increase with this project. Arkansas Steel

also added two additional oxygen lances to their Electric Arc Furnaces. These lances may create NO_x emissions greater than current actual levels but should still be below permitted levels.

35-AOP-R6

Permit 35-AOP-R6 was issued on March 7, 2006. In this permit modification Arkansas Steel increased the amount of coatings that can be received for the Tie Plate Dipping Process, SN-13, from 250 gallons per year to 1000 gallons per year.

35-AOP-R7

Permit 35-AOP-R7 was issued on March 9, 2011. This permit was the Title V renewal for the facility. In this renewal a number of changes were made. First a number of emergency generators which were previously unpermitted were added as sources due to being subject to the MACT Subpart ZZZZ. Requirements of MACT Subpart YYYYY were added to the permit.

Sources SN-02, 05, 06, 07, 12, and 12a were accounted for in SN-01 the EAF Baghouse. Previous changes to the meltshop canopy increased the collection efficiency in the meltshop. As a result all roof monitors were closed. Individual emission limits for these sources were removed. BACT limits apply to all these sources except SN-12a. If physical changes are made to vent these sources to the atmosphere through stacks other than SN-01 the BACT limits for these sources should be reinstated.

35-AOP-R8

Permit 35-AOP-R8 was issued on May 5, 2011. This modification added ten 32 hp natural gas fired emergency generators as SN-17.

35-AOP-R9

Permit 35-AOP-R8 was issued on June 10, 2011. This administrative amendment added two Plantwide Conditions left out of the last revision.

35-AOP-R10

Permit 35-AOP-R10 was issued on November 15, 2011. This permit was an administrative amendment to remove six of the ten generators which make up SN-17 as they were never installed.

35-AOP-R11

Permit 35-AOP-R11 was issued on December 6, 2012. This permit added a 150 kW natural gas fired Emergency Water Spray Generator, SN-18.

35-AOP-R12

Permit 35-AOP-R12 was issued on October 10, 2015. This permit added a new ladle and tundish drying system, SN-19, and ducted SN-05 outside instead of into the melt shop. The ladle preheater was previously included in the emissions for SN-01. Now with a separate stack its emission rates have been set to its previous BACT limits.

SECTION IV: SPECIFIC CONDITIONS

SN-01

EAF Baghouses

Source Description

The electric arc furnace (EAF) that Arkansas Steel Associates operates has a rated capacity of 50 tons and has a tap-to-tap time of approximately 45 to 55 minutes. The EAF typically requires three phases or periods of operation: scrap charging, melting and refining, and tapping.

During charging, the roof of the EAF is opened and the furnace is charged with recycled scrap material. The charge is dropped into the furnace from a large crane bucket. Most of the resulting plume is captured in a deep storage canopy hood. Gases evacuated from the deep storage canopy hood are directed to two EAF baghouses, which have a combined flow rate capacity of 500,000 ACFM. That airflow is divided, roughly equally, between the two baghouses.

During melting and refining, the furnace remains covered. The direct evacuation system (DEC) pulls exhaust gases at approximately 3500°F from the "fourth hole" located at the top of the furnace. Because of the high temperature, a water-cooled duct is utilized. Combustion air is added to the duct at the "air gap" in order to combust carbon monoxide and volatile organic compounds coming from the furnace. Because of the residence time and high temperature, this is especially effective in destroying CO and VOC emissions. The DEC also increases particulate control by providing close capture of process emissions.

Exhaust gas from the DEC then enters a spark box. The spark box allows large particles to drop and provides additional residence time for CO combustion. The hot furnace gas is then mixed with approximately 380,000 ACFM of dilution air from the canopy hood. The dilution air lowers the overall temperature of the gas to about 250 degrees F before it enters the EAF baghouses. Of the two EAF baghouses one is a positive pressure shaker-type baghouse with 16 compartments. Each compartment of that baghouse has its own exhaust stack. The other baghouse is a negative pressure, pulse jet-type, baghouse with 12 compartments and a single stack.

After the melting and refining period is completed, the steel melted in the EAF is tapped into a refractory lined ladle. It then goes to the ladle metallurgy station (SN-03). The molten steel is then cast into billets in the casting area of the facility. Though refining can take place in the EAF, the majority of refining takes place at the ladle metallurgy station, SN-03.

A number of natural gas fired sources and the Meltshop, SN-02 are accounted for with the emissions from SN-01 the EAF baghouses. These sources include: Ladle Preheaters, SN-05; Ladle Dryer, SN-06; Tundish Preheaters, SN-07; and Tundish Dryers, SN-12 and 12a. These sources except SN-12a all have BACT limits which apply. If these sources are ever vented to the

atmosphere separately from SN-01 the BACT limits will still apply. The following table lists all the natural gas fired sources and their sizes.

Source Number	Description	Burner Size
SN-05	Ladle Preheaters	3 burners 5.4 MMBTU/hr each
SN-06	Ladle Dryer	3.36 MMBTU/hr
SN-07	Tundish Preheater	4.47 and 3.3 MMBTU/hr
SN-12	Tundish Dryer	2.8 MMBTU/hr
SN-12a	Tundish Dryer	2.8 MMBTU/hr

Specific Conditions

1. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 3, 6, 10, 11, 12, 13, 14, and 15. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-01	EAF Baghouses	PM PM ₁₀ SO ₂ VOC CO NO _x Pb	$ \begin{array}{c} 11.3 \\ 11.3 \\ 41.0 \\ 25.0 \\ 420.0 \\ 50.0 \\ 0.4 \\ \end{array} $	49.2 49.2 152.0 92.0 1600.0 181.5 1.5

2. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 20 and 22. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
SN-01	EAF Baghouses	Arsenic Cadmium Manganese	0.0005 0.0004 0.03	0.002 0.002 0.08

3. The permittee shall measure the particulate emissions from the EAF baghouses, SN-01, every twelve months. The sampling time and sample volume for each run shall be at least 4 hours and 4.50 dscm (160 dscf). Each test shall consist of three runs. The permittee shall test the single stack from the new baghouse with Method 5 and shall test 12 stacks from the old baghouse with Method 5D. The 12 stacks tested on the old baghouse are to be chosen at random, by the Department. Each of the three runs on the old baghouse shall be conducted on a group of 4 of those 12 stacks. Each run shall be

conducted on four stacks not tested in a previous run. Each of the 4 stacks in a run shall be tested for at least one hour. The permittee shall notify the Department, in writing, at least 15 days prior to performing the tests. [Reg.19.702 and 40 C.F.R. § 52 Subpart E]

- 4. The particulate concentration in the exhaust of SN-01 shall not exceed 0.0052 gr/dscf. Compliance with this condition shall be demonstrated by Method 5 and 5D testing as described in Specific Condition 3. [Reg.19.304 and 40 C.F.R. § 60.272(a)(1)]
- 5. The permittee shall not emit carbon monoxide emissions from SN-01 in excess of 6.0 pounds of CO per ton of steel produced, 0.35 pounds of VOC per ton of steel produced, 0.58 pounds of SO₂ per ton of steel produced or 0.5 pound of NO_x per ton of steel produced. The particulate concentration in the exhaust of SN-01 shall not exceed 0.0052 gr/dscf. The lead content of the baghouse dust shall not exceed 3.0% by weight. Compliance with this condition will be shown by Specific Conditions 3, 6, and 12. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]
- 6. The permittee shall measure the VOC, CO, NO_x, and SO₂ emissions from SN-01 using method 25A, 10, 7E, and 6C, respectively, every twelve months. The permittee shall notify the Department, in writing, at least 15 days prior to performing the tests. The testing of the new baghouse shall be conducted with the testing of the existing baghouse on the annual schedule already established. [Reg.19.702 and 40 C.F.R. § 52 Subpart E]
- 7. The permittee shall not emit any gasses from SN-01 which have an opacity greater than 3%, as measured by Method 9. Visible emission observations shall be conducted on SN-01 at least once per day by a certified visible emission observer when the furnace is operating in the melting and refining period and records of these observations shall be kept on site and available for inspection. It shall be noted on the observation form that the readings were taken during the melting and refining periods. These observations are only required on one of the seventeen baghouse stacks provided the observations are made for the stack of highest opacity that directly relates to the cause (or locations) of visible emissions observed during a single incident. These observations shall not be required when ASA personnel are receiving training. [Reg.19.304 and 40 C.F.R. § 60.272(a)(2)]
- 8. The permittee shall submit a written report of exceedances of the EAF baghouse opacity to the Department semi-annually. All reports shall be postmarked by the 30th day following the end of each calendar half (July 30 and January 30). For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average baghouse opacity is equal to 3% or greater during melting and refining periods. The permittee shall also comply with the reporting requirements in General Provision 7 of this permit. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 9. The opacity limit specified in Specific Condition 7 shall not apply during periods of startup, shutdown, and malfunction. [Reg.19.304 and 40 C.F.R. § 60.8(c)]

- 10. The permittee shall perform monthly operational status inspections of the equipment that is important to the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of holes in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). [Reg.19.304 and 40 C.F.R. §§ 60.274(e), and 64]
- 11. The permittee shall, during any emission or opacity testing on SN-01, monitor and record the following information for all heats covered by the tests:
 - 1. Charge weights and materials, and tap weights and materials.
 - 2. Heat times, including start and stop times, and a log of process operation, including periods of no operation during testing.
 - 3. Control device operation log.
 - 4. Continuous monitor or Reference Method 9 data. [Reg.19.304 and 40 C.F.R. § 60.274(i)]
- 12. The permittee shall check and record on a once-per-shift basis the baghouse fan motor amperes and either damper positions or magnehelic pressure gauge readings. The permittee may check and record magnehelic pressure gauge readings on the baghouse ductwork instead of damper positions as an indicator of correct damper positions. For the new baghouse, a single magnehelic pressure gauge reading that provides the pressure drop across the entire baghouse shall suffice. For the old baghouse, either 16 magnehelic pressure gauge readings (one for each compartment) or a computer generated average of those 16 readings shall suffice. Operation of baghouse fan motor amperes values exceeding "15 percent of the value established during the last Method 5 test may be considered unacceptable operation and maintenance of the total capture system. Operation at such values shall be reported to the Department semiannually. All reports shall be postmarked by the 30th day following the end of each calendar half (July 30 and January 30). The permittee shall also comply with the reporting requirements in General Provision 7 of this permit. [Reg.19.304 and 40 C.F.R. §§ 60.274(b), 60.274(a), and 64]
- 13. The permittee shall demonstrate compliance with the lead emission limits by either 1) measure the lead concentration in the baghouse dust and calculate lead emissions by multiplying the measured particulate emissions by the lead concentration percentage in the baghouse dust, or 2) perform stack testing using Reference Method 12. These demonstrations shall be conducted on an annual basis. The testing of the new baghouse shall be conducted with the testing of the existing baghouse on the annual schedule already established [Reg.19.702 and 40 C.F.R. § 52 Subpart E]
- 14. The permittee shall not exceed 526,000 tons per year of steel production based on a rolling 12-month total. Compliance with this condition shall be demonstrated on a monthly basis by totaling the steel production for the previous 12 months. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

- 15. The permittee shall maintain daily records of the tonnage of steel produced. The permittee shall also maintain monthly records of the tonnage of steel produced each month and the consecutive 12 month total of steel produced. These records should be updated by the 20th day of the month following the month the records represent and shall be submitted in accordance with General Condition 7[Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]
- 16. The permittee shall for metallic scrap utilized in the EAF prepare and implement a pollution prevention plan as required in §63.10685(a)(1) or the scrap restrictions of §63.10685(a)(2). [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYY]
- 17. The permittee shall for scrap containing motor vehicle scrap participate in and purchase motor vehicle scrap from providers who participate in a program for the removal of mercury switches as required in §63.10685(b)(2) that is approved by the Administrator of 40 CFR Part 63, Subpart YYYYY or certify the scrap does not contain motor vehicle scrap. For scrap that does not contain motor vehicle scrap the permittee must maintain records of documentation that the scrap does not contain motor vehicle scrap. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYY]
- 18. The permittee shall maintain the records required in §63.10 and records which demonstrate compliance with the requirements of the pollution prevention plan and scrap restrictions of Specific Condition 16 and with the mercury requirements in Specific Condition 17. Additionally the permittee must maintain records identifying each scrap provider and documenting the scrap provider's participation in an approved mercury switch program. If the motor vehicle scrap is purchased from a broker, the permittee must maintain records identifying each broker and documentation that all scrap provided by the broker was provided by other scrap providers who participate in an approved mercury switch removal program. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYY]
- 19. The permittee must submit semiannual compliance reports to the Administrator of 40 CFR Part 63, Subpart YYYYY for the control of contaminates from scrap according to the requirements of §63.10(3). The report must clearly identify any deviation from the requirements of §63.10685(a) and (b) outlined in Specific Conditions 16 and 17. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYYY]
- 20. The permittee must install, operate, and maintain a capture system that collects the emissions from each EAF and conveys the collected emissions to a pollutant control device for the removal of particulate matter. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYYY]
- 21. The permittee must not discharge from SN-01 any gasses from an EAF which exhibit a 6% opacity or greater or contain in excess of 0.0052 gr/dscf. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYY]

22. The permittee must monitor the baghouses, SN-01 according to the compliance assurance monitoring requirements outlined in Specific Conditions 10 and 12. [Reg.19.304 and 40 C.F.R. § 63 Subpart YYYY]

SN-01b EAF Shell Burner

Source Description

This source is a 30 mmBtu/hr natural gas fired burner.

Specific Conditions

23. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by combustion of natural gas only. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
		PM_{10}	0.3	1.0
		SO_2	0.1	0.1
01b	EAF Shell Burner	VOC	0.2	0.8
		CO	2.6	11.1
		NO _x	1.5	6.6

24. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by combustion of natural gas only. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
01b	EAF Shell Burner	PM HAPs	0.3 0.1	1.0 0.1

- 25. The permittee shall not emit any gases from the SN-01b, gases which exhibit an opacity of 5% or greater. [Reg.18.501 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 26. ASA shall monitor the emissions of CO that could increase as a result of the installation of the EAF Shell Burner project and that is emitted by any emissions unit identified in 40 C.F.R Part 52.21(r)(6)(i)(b); and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of 5 years following resumption of regular operations after the change, or for a period of 10 years following resumption of regular operations after the change if the project increases the design capacity or potential to emit that regulated NSR pollutant at such emissions unit. [Reg.19.705 and Reg.19.901; 40 C.F.R. § 52.21(r)(6)(iii); Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311; and 40 C.F.R. § 70.6]

- 27. ASA shall submit a report to the Administrator if the annual emissions, in tons per year, of the EAF Shell Burner project, exceed the baseline actual emissions (as documented and maintained pursuant to 40 CFR Part 52.21(r)(6)(i)(c)), by a significant amount (as defined in paragraph 40 CFR Part 52.21(b)(23)) for that regulated NSR pollutant, and if such emissions differ from the preconstruction projection as documented and maintained pursuant to 40 CFR Part 52.21(r)(6)(i)(c). Such report shall be submitted to the Administrator within 60 days after the end of such year. The report shall contain the following:
 - a. The name, address and telephone number of the major stationary source;
 - b. The annual emissions as calculated pursuant to 40 CFR Part 52.21(r)(6)(iii); and
 - c. Any other information that the owner or operator wishes to include in the report (e.g., an explanation as to why the emissions differ from the preconstruction projection).

[Reg.19.705 and Reg.19.901; 40 C.F.R. § 52.21(r)(6)(iii); Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311; and 40 C.F.R. § 70.6]

SN-02 Meltshop Fugitive Emissions

Source Description

Modifications to the EAF canopy increased collection efficiency of emissions in the meltshop and the roof monitors were closed as a result. Emissions from the meltshop are now accounted from the EAF baghouses, SN-01. Opacity limits are still required by the NSPS Subpart AA. An alternative monitoring plan has been approved by EPA for this facility, which allows daily opacity readings on the meltshop during melting and refining as an alternative to monitoring the pressure in the free space inside the electric arc furnace.

Specific Conditions

- 28. The permittee shall not emit any gases from the melt shop during melting and refining phases which have an opacity of 6% or greater. At least once per day when the furnace is operating in the melting and refining period, an observer certified in accordance with EPA Method 9 shall conduct visible emissions observations to determine the shop opacity. These observations shall be taken in accordance with EPA Method 9 for at least three 6-minute periods. Melting and refining phases shall mean the time period commencing at the termination of the initial charging period and ending at the initiation of the tapping period, excluding any intermediate charging periods. The opacity shall be recorded for any point(s) where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emissions, only one set of three 6-minute observations will be required. In this case, EPA Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. These opacity observations shall be recorded on a visible emission observations form. The information presented in Figures 9-1 and 9-2 to EPA Method 9 shall be recorded. Compliance with this condition shall be demonstrated by Specific Condition 31. These observations shall not be required when ASA personnel are receiving training. [Reg.19.304 and 40 C.F.R. § 60 Subpart AA]
- 29. The permittee shall not emit any gases from the melt shop during charging periods which have an opacity of 20% or greater. At least once per week when the furnace is in the charging period, an observer certified in accordance with EPA Method 9 shall conduct visible emissions observations to determine the shop opacity. These observations shall be taken in accordance with EPA Method 9 for at least one 6-minute period. Charging period shall mean the time period commencing at the moment the EAF starts to open and ending either three minutes after the EAF roof is returned to its closed position or six minutes after commencement of opening the roof, whichever is longer. Compliance with this condition shall be demonstrated by Specific Condition 31. These observations shall not be required when ASA personnel are receiving training. [Reg.19.304 and 40 C.F.R. § 60 Subpart AA]

- 30. The permittee shall not emit any gases from the melt shop during tapping periods which have an opacity of 40% or greater. At least once per week when the furnace is in the tapping period, an observer certified in accordance with EPA Method 9 shall conduct visible emissions observations to determine the shop opacity. These observations shall be taken in accordance with EPA Method 9 for at least one 6-minute period. Tapping period shall mean the time period commencing at the moment the EAF begins to tilt to pour and ending either three minutes after the EAF returns to an upright position or six minutes after commencing to tilt, whichever is longer. Compliance with this condition shall be demonstrated by Specific Condition 31. These observations shall not be required when ASA personnel are receiving training. [Reg.19.304 and 40 C.F.R. § 60 Subpart AA]
- 31. The permittee shall keep records of all opacity readings taken on the meltshop. The period when the opacity readings are performed shall be clearly marked on the opacity form. The period shall be marked either melting and refining, charging, or tapping. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 32. The permittee shall submit a written report of exceedances of the shop opacity to the Department semi-annually. All reports shall be postmarked by the 30th day following the end of each calendar half (July 30 and January 30). For the purposes of these reports, exceedances are defined as all 6-minute periods during which the average shop opacity is equal to 6% or greater during melting and refining periods, 20% or greater during charging periods, and 40% or greater during tapping periods. These reports shall clearly indicate which period the exceedance occurred in. The permittee shall also comply with the reporting requirements in General Provision 7 of this permit. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 33. The opacity limits specified in Specific Conditions, 28, 29, and 30 shall not apply during periods of startup, shutdown, and malfunction. [Reg.19.304 and 40 C.F.R. § 60.8(c)]

SN-03 Ladle Metallurgy Station

Source Description

Before proceeding to the caster, the partially processed steel must typically undergo refining. This refining takes place in the Ladle Metallurgy Station (LMS), SN-03. At the LMS, the ladle is paused and another triad of carbon electrodes with a special roof for the ladle are set in place over the ladle and the partially processed molten steel. At this point, further alloying and refining of the steel to the desired metallurgical chemistry takes place. Emissions from this source are controlled by a baghouse.

In some instances, when further refining is not necessary, the molten steel may proceed directly to the caster without a pause at the LMS.

Specific Conditions

34. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by complying with the steel production limits set forth in this permit and Specific Condition 39. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-03	Ladle Metallurgy Station	PM PM ₁₀ CO	1.0 0.8 42.0	4.5 3.4 160.0

- 35. The permittee shall not emit any gases from SN-03, the Ladle Metallurgy Station, which exhibit an opacity of 5% or greater. Compliance with this condition will be shown by Specific Condition 37. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 36. The permittee shall not emit carbon monoxide emissions from SN-03 in excess of 0.6 pounds of CO per ton of steel produced nor shall the particulate concentration in the exhaust of SN-03 exceed 0.0052 gr/dscf. Compliance with this condition will be shown by Specific Condition 39. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]
- 37. The permittee shall conduct weekly observations of the opacity from SN-03. These weekly observations shall be conducted in accordance with EPA Reference Method 9. If visible emissions in excess of the permitted opacity are detected, the permittee shall immediately take action to identify the cause of the excess visible emissions, implement corrective action, and document that the visible emissions did not exceed the permitted opacity following the corrective action. These observations shall not be required when ASA personnel are receiving training. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

- 38. The permittee shall maintain records which demonstrate compliance with Specific Condition 37. These records shall contain the following items.
 - i. The date and time of the observation;
 - ii. if visible emissions above the permitted limit were detected;
- iii. if visible emissions above the permitted limits, list the cause of the exceedance of the opacity limits, the corrective action taken, and if the visible emissions are below the permitted limit after the corrective actions was taken; and
- iv. the person conducting the opacity observations.

These records shall be updated weekly, kept on site, and made available to Department personnel upon request. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

39. The permittee shall measure the particulate and CO emissions from the LMS baghouse, SN-03, using EPA Reference Method 5 and 10 respectively. This test shall be conducted within sixty (60) days of achieving the maximum production rate, but in no event later than 180 days after initial start-up, and every 12 months thereafter. The permittee shall notify the Department, in writing, at least 15 days prior to performing the tests. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN-04 Reheat Furnace

Source Description

After leaving the caster, the steel billets are processed through a natural gas fired reheat furnace. With the exception of startup, shutdown, and malfunction conditions, the rated heat input capacity of the reheat furnace is 67.97 MMBtu/hr. The reheat furnace is manufactured by Danieli Centro Combustion. All combustion products are routed to a single stack.

Specific Conditions

40. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 43 and 44. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-04	Reheat Furnace	PM PM ₁₀ CO	1.0 1.0 4.3	4.2 4.2 18.0

41. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 43 and 44. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-04	Reheat Furnace	SO ₂ VOC NO _x	0.1 0.4 14.0	0.2 1.7 43.0

- 42. The permittee shall not exceed 5% opacity from SN-04. Compliance with this condition shall be demonstrated by Specific Conditions 43. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]
- 43. The permittee shall combust only pipeline quality natural gas at SN-04. [Reg.19.705, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 70.6]
- 44. The permittee shall not combust more than 596 million cubic feet of natural gas during any consecutive 12 month period at the reheat furnace. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

45. The permittee shall maintain records of the amount of natural gas combusted at the reheat furnace during each consecutive 12 month period. Each 12 month total shall be updated on a monthly basis. These records should be updated by the 20th day of the month following the month the records represent and shall be submitted in accordance with General Condition 7. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

SN-05 Ladle Preheaters

Source Description

The ladle preheaters are three 5.4 MMBTU natural gas fired burners used to preheat ladles before they contact molten steel.

Specific Conditions

46. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Plantwide Condition 5. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
	Ladle Preheaters	PM	0.2	0.7
		PM_{10}	0.2	0.7
GNL OF		SO ₂ VOC	0.1	0.1
SN-05		VOC	0.1	0.4
		CO	1.4	5.9
		NO _x	1.6	7.0

47. The permittee shall not emit any gases from the Ladle Preheaters, SN-05, gases which exhibit an opacity of 5% or greater. [Reg.18.501 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]

SN-08 Unpaved Roads

Source Description

This source accounts for emission from unpaved roads at the facility.

Specific Conditions

48. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Condition 49. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
		PM	1.9	8.2
SN-08	Unpaved Roads	PM_{10}	0.4	1.6

49. The permittee shall water all unpaved roads as necessary to prevent fugitive emissions from leaving the property boundary. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN-09 Paved Roads

Source Description

This source accounts for emissions from paved roads at the facility.

Specific Conditions

50. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Condition 51. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-09	Paved Roads	РМ	0.6	2.0
514-07	I avea Roads	PM_{10}	0.3	1.0

51. The permittee shall water all paved roads as necessary to prevent fugitive emissions from leaving the property boundary. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN-10 Slag Processing

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Source Description

Slag produced during the steel making process is handled at the mill and generates particulate emissions. Slag processing includes the loading and unloading of slag piles and also the crushing, conveying and screening of the material. Emissions from unpaved roads within the slag area are accounted for in SN-08. The slag represents approximately 11% of the total steel production.

Specific Conditions

52. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 54 and 55. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-10 Slag Processing		PM	5.7	8.3
	PM_{10}	2.9	4.1	

- 53. The opacity from slag processing shall not exceed 20%, as measured by EPA Reference Method 9. Slag processing shall include slag dumping (loading/unloading piles) and slag handling (conveying, screening). Compliance will be demonstrated by using water sprays as necessary as outlined in Specific Condition 54. [Reg.19.503 and 40 C.F.R. § 52 Subpart E]
- 54. The permittee shall use water sprays as necessary to comply with the opacity limit for SN-10. [Reg.19.705, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311, and 40 C.F.R. § 70.6]
- 55. The permittee shall not process more than 57,860 tons of slag per year based on a rolling 12 month total. The permittee shall demonstrate compliance with this condition by compliance with Specific Condition 56. [Reg.19.705, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311, and 40 C.F.R. § 70.6]
- 56. The permittee shall keep records on the amount of slag processed each month and each 12 month period. These records shall be kept on site and be made available to Department personnel upon request. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

SN-11 Baghouse Dust Handling

Source Description

Arkansas Steel collects baghouse dust in hoppers beneath each of the baghouse modules. Intermittently, the hoppers are emptied by screw conveyors that collect the dust and dump it deep into a stationary, covered, hopper-bottom railcar or other suitable container. The rotary air locks and screw conveyor are sealed to minimize emissions. The railcar is almost fully enclosed in a metal housing to minimize emissions from wind disturbing the transfer of dust. This source is subject to New Source Performance Standards-Subpart AA.

Specific Conditions

57. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by complying with the steel production limits of this permit. [Reg.19.901 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-11	Baghouse Dust Handling	PM PM ₁₀ Pb	0.2 0.1 0.01	0.5 0.2 0.02

- 58. The permittee shall not emit any gases from the dust handling equipment servicing the EAF baghouse which have an opacity of 10% or greater, as measured by Method 9. [Reg.19.304 and 40 C.F.R. § 60 Subpart AA]
- 59. The permittee shall conduct daily observations of the opacity from the dust handling equipment, and keep a record of these observations. For the purposes of this condition, the dust handling equipment shall include any equipment used to handle particulate matter collected by the baghouses and located at or near the baghouses. If visible emissions are detected, then the permittee shall conduct a 6-minute opacity reading in accordance with EPA Reference Method 9. The results of these observations shall be kept on site and made available for inspection upon request. These observations shall not be required when ASA personnel are receiving training on Method 9. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

SN-13 Tie Plate Dipping Process

Source Description

Tie plates for certain customers of Arkansas Steel are dipped into a coating solution. The coating solution is applied to retard corrosion of the finished product, the tie plates, during overseas transport. The coating solution is an oil-based liquid. The Tie Plate Dipping Process typically is run no more often than once per year, 8 hours per day, over a 10 day period. The Tie Plate Dipping Process is carried out in a portion of the Rolling Mill south of the shipping offices.

Hourly emissions from this source assume all the allowable annual emissions are released in one day. Emissions also take into account the storage of the coatings since the emissions are based on the assumption that all VOC and HAPs in the purchased coatings are released to the atmosphere.

Specific Conditions

60. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Condition 61. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
SN-13	Tie Plate Dipping Process	VOC	141.6	1.7

- 61. The permittee shall not receive more than 1000 gallons VOC containing material for use in the Tie Plate Dipping Process, SN-13, in any consecutive 12 month period. The permittee shall not use a material in the Tie Plate Dipping Process, SN-13, with a VOC content greater than 3.37 pounds per gallon. Compliance with this condition will be demonstrated by Specific Condition 62. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 62. The permittee shall maintain monthly records of all VOC containing materials purchased for use in the Tie Plate Dipping Process, SN-13. These records shall show the VOC content in pounds per gallon as demonstrated by the manufactures MSDS sheet or equivalent, the total purchased each month and the 12 month rolling total. These records should be updated by the twentieth day of the month following the month the records represent and shall be submitted in accordance with General Condition 7. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]

SN-14, 15, 16, 17, and 18

LMS/FCE, DEC Cooling Water, Reheat Furnace Emergency Generators, Emergency Lighting Generators, and Emergency Water Spray Generator

Source Description

The LMS/FCE Emergency Generator, SN-14, is a 170 hp diesel-fired emergency generator.

The DEC Cooling Water Emergency Generator, SN-15, is a 87 hp diesel-fired emergency generator

Reheat Furnace Emergency Generator, SN-16, is a 170 hp diesel-fired emergency generator.

The Emergency Lighting Generators, SN-17, are four 32 hp natural gas fired emergency generators.

The Emergency Water Spray Generator, SN-18, is a 150 kW natural gas fired emergency generator to provide electricity for the emergency water spray.

Specific Conditions

63. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 66, 68, 69, and 71. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
		PM_{10}	0.4	0.1
	LMS/FCE	SO_2	0.4	0.1
SN-14	Emergency	VOC	0.5	0.1
	Generator	CO	1.2	0.2
		NO _x	5.3	0.8
		PM_{10}	0.2	0.1
	DEC Cooling	SO_2	0.2	0.1
SN-15	Water Emergency	VOC	0.3	0.1
	Generator	CO	1.0	0.1
		NO _x	2.7	0.4
		PM_{10}	0.4	0.1
	Reheat Furnace	\mathbf{SO}_2	0.4	0.1
SN-16	Emergency	VOC	0.5	0.1
	Generator	CO	1.2	0.2
		NO _x	5.4	1.0

SN	Description	Pollutant	lb/hr	tpy
		PM_{10}	0.1	0.1
	Emergency	SO_2	0.1	0.1
SN-17	Lighting	VOC	0.1	0.1
	Generators	CO	0.2	0.1
		NO _x	1.1	0.1
		PM_{10}	0.1	0.1
	Emergency Water	SO_2	0.1	0.1
SN-18	Spray Emergency	VOC	0.1	0.1
	Generator	CO	0.8	0.1
		NO _x	0.1	0.1

64. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Specific Conditions 66, 68, 69, and 71. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
SN-14	LMS/FCE Emergency Generator	РМ	0.4	0.1
SN-15	DEC Cooling Water Emergency Generator	РМ	0.2	0.1
SN-16	Reheat Furnace Emergency Generator	РМ	0.4	0.1
SN-17	Emergency Lighting Generators	РМ	0.1	0.1
SN-18	Emergency Water Spray Emergency Generator	РМ	0.1	0.1

65. Visible emissions may not exceed the limits specified in the following table of this permit as measured by EPA Reference Method 9. Compliance will be demonstrated by burning only natural gas for SN-17 and Plantwide Condition 5.

SN	Limit	Regulatory Citation
SN-14, SN-15, and SN-16	20%	Reg.19.503 and 40 C.F.R. § 52 Subpart E

SN-17 and	5%	Reg.18.501 and Ark. Code Ann. § 8-4-203 as referenced by Ark.
SN-18	J 70	Code Ann. §§ 8-4-304 and 8-4-
		311

- 66. The permittee shall not operate any single one of the Emergency Generators, SN-14, SN-15, and SN-16 more than 500 hours in any consecutive 12 month period. The permittee shall not operate any engine part of SN-17 and SN-18 more than 100 hours each. The permittee shall maintain records of the hours of operation of each generator each month. These records shall be updated by the 15th day of the month following the month that the records represent, kept on site, made available to Department personnel upon request and in accordance with General Provision 7. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 67. The Emergency Generators, SN-14, SN-15, and SN-16, are subject to 40 CFR Part 63, Subpart ZZZZ. As these are existing sources the compliance date is May 3, 2013. Specific Conditions 68 through 75 take effect after the compliance date. The permittee is not required to comply with those conditions till then. The Emergency Lighting Generators, SN-17 and the Emergency Water Spray Generator, SN-18, are new sources under the MACT. Specific Condition 76 applies upon issuance of this permit. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 68. The permittee must meet the following maintenance requirements for the Emergency Generators, SN-14, SN-15, and SN-16: Change the oil and filter every 500 hours of operation or annually, whichever comes first; inspect the air cleaner every 1,000 hours of operation or annually, whichever comes first; and inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 69. The permittee must for the Emergency Generators, SN-14, SN-15, SN-16, minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 70. The permittee is to comply with the operating limitations of 40 CFR Part 63, Subpart ZZZZ that apply at all times and maintain any affected source including any associated air pollution control equipment and monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 71. The permittee must maintain the Emergency Generators, SN-14, SN-15, SN-16, according to the manufacturer's emission-related written instructions or develop their own maintenance plan according to 40 CFR 63.6625(e). [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]

- 72. The permittee must install on each of the Emergency Generators, SN-14, SN-15, SN-16, a non-resettable hour meter. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 73. The permittee may utilize an oil analysis program in order to extend the specified oil change requirements in Specific Condition 68. This analysis program shall be conducted as required in §63.6625(i). [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 74. The permittee may operate the Emergency Generators, SN-14, SN-15, SN-16, 100 hours per year for maintenance and readiness checks. The permittee may operate the generators 50 hours per year in non-emergency situations as outlined in §63.6640(f)(4). Those 50 hours must be included in the 100 hours for maintenance and readiness checks. There is no limit on emergency operation due to Subpart ZZZZ. The operation limit in Specific Condition 66 still applies. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 75. The permittee shall submit reports as outlined in §63.6650. [Reg.19.304 and 40 C.F.R. § 63,Subpart ZZZZ]
- 76. The Emergency Power Generators, SN-17, and the Emergency Water Spray Generator, SN-18, are subject to and shall comply with the provisions of NSPS Subpart JJJJ. SN-17 and SN-18 are also subject to 40 CFR Part 63 Subpart ZZZZ. Compliance with Subpart ZZZZ is demonstrated by complying with NSPS Subpart JJJJ. [Reg.19.304 and 40 C.F.R. §§ 60 Subpart JJJJ, and 40 C.F.R. 63 Subpart ZZZZ]
- 77. SN-17 and SN-18 shall comply with the emission standards of 60.4231(a). The permittee must operate SN-17 so that it complies with those standards over the entire life of the engine. [Reg.19.304 and 40 C.F.R. §§ 60.4233(a) and 60.4234]
- If the Emergency Generators, SN-17, and the Emergency Water Spray Generator, SN-18, do not meet the standards applicable to non-emergency engines, the permittee must install a non-resetable hour meter upon startup of the engine. [Reg.19.304 and 40 C.F.R. § 60.4237(c)]
- 79. If the permittee operates and maintains the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, the permittee must keep records of conducted maintenance to demonstrate compliance. If the permittee does not operate and maintain SN-17 and SN-18 according to the manufacturer's emission-related written instructions, the engine will be considered a non-certified engine, and you must demonstrate compliance by keeping a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. [Reg.19.304 and 40 C.F.R. § 60.4243(a)]
- 80. The permittee may operate the Emergency Generators, SN-17, and the Emergency Water Spray Generator, SN-18, for the purpose of maintenance checks and readiness testing,

provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no NSPS required time limit on the use of emergency stationary ICE in emergency situations. The 100 hour of operation limit of the permit still applies. SN-17 may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year except as allowed in this paragraph is prohibited. [Reg.19.304 and 40 C.F.R. § 60.4243(d)]

SN-19

Ladle and Tundish Drying System

Source Description

The ladle and tundish drying system is a 3.4 MMBTU/hr natural gas fired heater which dries new refractory linings in the ladles and tundishes.

Specific Conditions

81. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Plantwide Condition 5. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
	Ladia and Trankal	$\frac{\rm PM_{10}}{\rm SO_2}$	0.1 0.1	0.2 0.1
SN-19	Ladle and Tundish Drying System	VOC CO	0.1 0.3	0.1 1.3
		NOx	0.4	1.5

82. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by compliance with Plantwide Condition 5. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
SN-19	Ladle and Tundish Drying System	РМ	0.1	0.2

- 83. The permittee shall not emit any gases from SN-19, Ladle and Tundish Drying System, which exhibit an opacity of 5% or greater. [Reg.18.501 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311]
- 84. The permittee shall not operate the tundish and ladle dryers SN-06, SN-12, and SN-12a accounted for along with the EAF Baghouse, SN-01, after SN-19 begins operation.
 [Reg.19.705, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 70.6]

SN-20 Gasoline Storage Tank

Source Description

SN-20 is a 500-gallon gasoline storage tank.

Specific Conditions

85. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific Condition 87. [Reg.19.501 *et seq.* and 40 C.F.R. § 52 Subpart E]

SN	Description	Pollutant	lb/hr	tpy
20	Gasoline Storage Tank	VOC	2.7	0.2

86. The permittee shall not exceed the emission rates set forth in the following table. The permittee shall demonstrate compliance with this condition by Specific Condition 87. [Reg.18.801 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SN	Description	Pollutant	lb/hr	tpy
20	Gasoline Storage Tank	HAPs	0.2	0.1

- 87. The permittee shall not exceed a throughput of 60,000 gallons of gasoline per rolling 12 month period. [Reg.19.705, Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8 8-4-304 and 8-4-311, and 40 C.F.R. § 70.6]
- 88. The permittee shall maintain monthly records to demonstrate compliance with Specific Condition 87. The permittee shall update these records by the fifteenth day of the month following the month to which the records pertain. The twelve month rolling totals and each individual month's data shall be maintained on-site, made available to Department personnel upon request, and submitted in accordance with General Provision 7. [Reg.19.705 and 40 C.F.R. § 52 Subpart E]
- 89. You must not allow gasoline to be handled in a manner that would result in vapor releases to the atmosphere for extended periods of time. Measures to be taken include, but are not limited to, the following:
 - (1) Minimize gasoline spills;

(2) Clean up spills as expeditiously as practicable;

(3) Cover all open gasoline containers and all gasoline storage tank fill-pipes with a gasketed seal when not in use;

(4) Minimize gasoline sent to open waste collection systems that collect and transport gasoline to reclamation and recycling devices, such as oil/water separators.

The permittee must have records available within 24 hours of a request by the Administrator to document your gasoline throughput.

The permittee must comply with the requirements of this subpart by the applicable dates specified in 40 C.F.R. § 63.11113.

Portable gasoline containers that meet the requirements of 40 CFR part 59, subpart F, are considered acceptable for compliance with paragraph (a)(3) of this 40 C.F.R.§ 63.11116.

[Reg.19.304 and 40 C.F.R. § 63 Subpart CCCCCC]

SECTION V: COMPLIANCE PLAN AND SCHEDULE

Arkansas Steel Associates, LLC will continue to operate in compliance with those identified regulatory provisions. The facility will examine and analyze future regulations that may apply and determine their applicability with any necessary action taken on a timely basis.

SECTION VI: PLANTWIDE CONDITIONS

- The permittee shall notify the Director in writing within thirty (30) days after commencing construction, completing construction, first placing the equipment and/or facility in operation, and reaching the equipment and/or facility target production rate. [Reg.19.704, 40 C.F.R. § 52 Subpart E, and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 2. If the permittee fails to start construction within eighteen months or suspends construction for eighteen months or more, the Director may cancel all or part of this permit. [Reg.19.410(B) and 40 C.F.R. § 52 Subpart E]
- 3. The permittee must test any equipment scheduled for testing, unless otherwise stated in the Specific Conditions of this permit or by any federally regulated requirements, within the following time frames: (1) new equipment or newly modified equipment within sixty (60) days of achieving the maximum production rate, but no later than 180 days after initial start up of the permitted source or (2) operating equipment according to the time frames set forth by the Department or within 180 days of permit issuance if no date is specified. The permittee must notify the Department of the scheduled date of compliance testing at least fifteen (15) business days in advance of such test. The permittee shall submit the compliance test results to the Department within thirty (30) calendar days after completing the testing. [Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 4. The permittee must provide:
 - a. Sampling ports adequate for applicable test methods;
 - b. Safe sampling platforms;
 - c. Safe access to sampling platforms; and
 - d. Utilities for sampling and testing equipment.

[Reg.19.702 and/or Reg.18.1002 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

- 5. The permittee must operate the equipment, control apparatus and emission monitoring equipment within the design limitations. The permittee shall maintain the equipment in good condition at all times. [Reg.19.303 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- This permit subsumes and incorporates all previously issued air permits for this facility. [Reg. 26 and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]

SECTION VII: INSIGNIFICANT ACTIVITIES

The following sources are insignificant activities. Any activity that has a state or federal applicable requirement shall be considered a significant activity even if this activity meets the criteria of Reg.26.304 or listed in the table below. Insignificant activity determinations rely upon the information submitted by the permittee in an application dated May 4, 2009.

Description	Category
(8) Cooling Towers (8)	A-13
(2) 1100 gallon diesel storage tank	A-3
(1) 120 gallon diesel storage tank	A-3
(1) 220 gallon used oil tank	A-3
(1) 580-gallon diesel storage tank	A-3
Parts washers that use a low vapor pressure organic solvent	A-13
15,000 gallon used oil tank	A-13
Materials handling operations at the site including those associated with raw material, product moving and scrap handling.	A-13

SECTION VIII: GENERAL PROVISIONS

- Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the sole origin of and authority for the terms or conditions are not required under the Clean Air Act or any of its applicable requirements, and are not federally enforceable under the Clean Air Act. Arkansas Pollution Control & Ecology Commission Regulation 18 was adopted pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*). Any terms or conditions included in this permit which specify and reference Arkansas Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control & Ecology Commission Regulation 18 or the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 *et seq.*) as the origin of and authority for the terms or conditions are enforceable under this Arkansas statute. [40 C.F.R. § 70.6(b)(2)]
- 2. This permit shall be valid for a period of five (5) years beginning on the date this permit becomes effective and ending five (5) years later. [40 C.F.R. § 70.6(a)(2) and Reg.26.701(B)]
- 3. The permittee must submit a complete application for permit renewal at least six (6) months before permit expiration. Permit expiration terminates the permittee's right to operate unless the permittee submitted a complete renewal application at least six (6) months before permit expiration. If the permittee submits a complete application, the existing permit will remain in effect until the Department takes final action on the renewal application. The Department will not necessarily notify the permittee when the permit renewal application is due. [Reg.26.406]
- 4. Where an applicable requirement of the Clean Air Act, as amended, 42 U.S.C. 7401, *et seq.* (Act) is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, the permit incorporates both provisions into the permit, and the Director or the Administrator can enforce both provisions. [40 C.F.R. § 70.6(a)(1)(ii) and Reg.26.701(A)(2)]
- 5. The permittee must maintain the following records of monitoring information as required by this permit.
 - a. The date, place as defined in this permit, and time of sampling or measurements;
 - b. The date(s) analyses performed;
 - c. The company or entity performing the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of such analyses; and
 - f. The operating conditions existing at the time of sampling or measurement.

[40 C.F.R. § 70.6(a)(3)(ii)(A) and Reg.26.701(C)(2)]

- 6. The permittee must retain the records of all required monitoring data and support information for at least five (5) years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, and copies of all reports required by this permit. [40 C.F.R. § 70.6(a)(3)(ii)(B) and Reg.26.701(C)(2)(b)]
- 7. The permittee must submit reports of all required monitoring every six (6) months. If the permit establishes no other reporting period, the reporting period shall end on the last day of the month six months after the issuance of the initial Title V permit and every six months thereafter. The report is due on the first day of the second month after the end of the reporting period. The first report due after issuance of the initial Title V permit shall contain six months of data and each report thereafter shall contain 12 months of data. The report shall contain data for all monitoring requirements in effect during the reporting period. If a monitoring requirement is not in effect for the entire reporting period, only those months of data in which the monitoring requirement was in effect are required to be reported. The report must clearly identify all instances of deviations from permit requirements. A responsible official as defined in Reg.26.2 must certify all required reports. The permittee will send the reports to the address below:

Arkansas Department of Environmental Quality Air Division ATTN: Compliance Inspector Supervisor 5301 Northshore Drive North Little Rock, AR 72118-5317

[40 C.F.R. § 70.6(a)(3)(iii)(A) and Reg.26.701(C)(3)(a)]

- 8. The permittee shall report to the Department all deviations from permit requirements, including those attributable to upset conditions as defined in the permit.
 - a. For all upset conditions (as defined in Reg.19.601), the permittee will make an initial report to the Department by the next business day after the discovery of the occurrence. The initial report may be made by telephone and shall include:
 - i. The facility name and location;
 - ii. The process unit or emission source deviating from the permit limit;
 - iii. The permit limit, including the identification of pollutants, from which deviation occurs;
 - iv. The date and time the deviation started;
 - v. The duration of the deviation;
 - vi. The emissions during the deviation;
 - vii. The probable cause of such deviations;

- viii. Any corrective actions or preventive measures taken or being taken to prevent such deviations in the future; and
- ix. The name of the person submitting the report.

The permittee shall make a full report in writing to the Department within five (5) business days of discovery of the occurrence. The report must include, in addition to the information required by the initial report, a schedule of actions taken or planned to eliminate future occurrences and/or to minimize the amount the permit's limits were exceeded and to reduce the length of time the limits were exceeded. The permittee may submit a full report in writing (by facsimile, overnight courier, or other means) by the next business day after discovery of the occurrence, and the report will serve as both the initial report and full report.

b. For all deviations, the permittee shall report such events in semi-annual reporting and annual certifications required in this permit. This includes all upset conditions reported in 8a above. The semi-annual report must include all the information as required by the initial and full reports required in 8a.

[Reg.19.601, Reg.19.602, Reg.26.701(C)(3)(b), and 40 C.F.R. § 70.6(a)(3)(iii)(B)]

- 9. If any provision of the permit or the application thereof to any person or circumstance is held invalid, such invalidity will not affect other provisions or applications hereof which can be given effect without the invalid provision or application, and to this end, provisions of this Regulation are declared to be separable and severable. [40 C.F.R. § 70.6(a)(5), Reg.26.701(E), and Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 10. The permittee must comply with all conditions of this Part 70 permit. Any permit noncompliance with applicable requirements as defined in Regulation 26 constitutes a violation of the Clean Air Act, as amended, 42 U.S.C. § 7401, *et seq.* and is grounds for enforcement action; for permit termination, revocation and reissuance, for permit modification; or for denial of a permit renewal application. [40 C.F.R. § 70.6(a)(6)(i) and Reg.26.701(F)(1)]
- 11. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity to maintain compliance with the conditions of this permit. [40 C.F.R. § 70.6(a)(6)(ii) and Reg.26.701(F)(2)]
- 12. The Department may modify, revoke, reopen and reissue the permit or terminate the permit for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. [40 C.F.R. § 70.6(a)(6)(iii) and Reg.26.701(F)(3)]

- 13. This permit does not convey any property rights of any sort, or any exclusive privilege. [40 C.F.R. § 70.6(a)(6)(iv) and Reg.26.701(F)(4)]
- 14. The permittee must furnish to the Director, within the time specified by the Director, any information that the Director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee must also furnish to the Director copies of records required by the permit. For information the permittee claims confidentiality, the Department may require the permittee to furnish such records directly to the Director along with a claim of confidentiality. [40 C.F.R. § 70.6(a)(6)(v) and Reg.26.701(F)(5)]
- 15. The permittee must pay all permit fees in accordance with the procedures established in Regulation 9. [40 C.F.R. § 70.6(a)(7) and Reg.26.701(G)]
- 16. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes provided for elsewhere in this permit. [40 C.F.R. § 70.6(a)(8) and Reg.26.701(H)]
- 17. If the permit allows different operating scenarios, the permittee shall, contemporaneously with making a change from one operating scenario to another, record in a log at the permitted facility a record of the operational scenario. [40 C.F.R. § 70.6(a)(9)(i) and Reg.26.701(I)(1)]
- 18. The Administrator and citizens may enforce under the Act all terms and conditions in this permit, including any provisions designed to limit a source's potential to emit, unless the Department specifically designates terms and conditions of the permit as being federally unenforceable under the Act or under any of its applicable requirements. [40 C.F.R. § 70.6(b) and Reg.26.702(A) and (B)]
- 19. Any document (including reports) required by this permit must contain a certification by a responsible official as defined in Reg.26.2. [40 C.F.R. § 70.6(c)(1) and Reg.26.703(A)]
- 20. The permittee must allow an authorized representative of the Department, upon presentation of credentials, to perform the following: [40 C.F.R. § 70.6(c)(2) and Reg.26.703(B)]
 - a. Enter upon the permittee's premises where the permitted source is located or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
 - b. Have access to and copy, at reasonable times, any records required under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and

- d. As authorized by the Act, sample or monitor at reasonable times substances or parameters for assuring compliance with this permit or applicable requirements.
- 21. The permittee shall submit a compliance certification with the terms and conditions contained in the permit, including emission limitations, standards, or work practices. The permittee must submit the compliance certification annually. If the permit establishes no other reporting period, the reporting period shall end on the last day of the anniversary month of the initial Title V permit. The report is due on the first day of the second month after the end of the reporting period. The permittee must also submit the compliance certification to the Administrator as well as to the Department. All compliance certifications required by this permit must include the following: [40 C.F.R. § 70.6(c)(5) and Reg.26.703(E)(3)]
 - a. The identification of each term or condition of the permit that is the basis of the certification;
 - b. The compliance status;
 - c. Whether compliance was continuous or intermittent;
 - d. The method(s) used for determining the compliance status of the source, currently and over the reporting period established by the monitoring requirements of this permit; and
 - e. Such other facts as the Department may require elsewhere in this permit or by § 114(a)(3) and § 504(b) of the Act.
- 22. Nothing in this permit will alter or affect the following: [Reg.26.704(C)]
 - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the Administrator under that section;
 - b. The liability of the permittee for any violation of applicable requirements prior to or at the time of permit issuance;
 - c. The applicable requirements of the acid rain program, consistent with § 408(a) of the Act; or
 - d. The ability of EPA to obtain information from a source pursuant to § 114 of the Act.
- 23. This permit authorizes only those pollutant emitting activities addressed in this permit. [Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311]
- 24. The permittee may request in writing and at least 15 days in advance of the deadline, an extension to any testing, compliance or other dates in this permit. No such extensions are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion in the following circumstances:
 - a. Such an extension does not violate a federal requirement;
 - b. The permittee demonstrates the need for the extension; and

c. The permittee documents that all reasonable measures have been taken to meet the current deadline and documents reasons it cannot be met.

[Reg.18.314(A), Reg.19.416(A), Reg.26.1013(A), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. § 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

- 25. The permittee may request in writing and at least 30 days in advance, temporary emissions and/or testing that would otherwise exceed an emission rate, throughput requirement, or other limit in this permit. No such activities are authorized until the permittee receives written Department approval. Any such emissions shall be included in the facility's total emissions and reported as such. The Department may grant such a request, at its discretion under the following conditions:
 - a. Such a request does not violate a federal requirement;
 - b. Such a request is temporary in nature;
 - c. Such a request will not result in a condition of air pollution;
 - d. The request contains such information necessary for the Department to evaluate the request, including but not limited to, quantification of such emissions and the date/time such emission will occur;
 - e. Such a request will result in increased emissions less than five tons of any individual criteria pollutant, one ton of any single HAP and 2.5 tons of total HAPs; and
 - f. The permittee maintains records of the dates and results of such temporary emissions/testing.

[Reg.18.314(B), Reg.19.416(B), Reg.26.1013(B), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

- 26. The permittee may request in writing and at least 30 days in advance, an alternative to the specified monitoring in this permit. No such alternatives are authorized until the permittee receives written Department approval. The Department may grant such a request, at its discretion under the following conditions:
 - a. The request does not violate a federal requirement;
 - b. The request provides an equivalent or greater degree of actual monitoring to the current requirements; and
 - c. Any such request, if approved, is incorporated in the next permit modification application by the permittee.

[Reg.18.314(C), Reg.19.416(C), Reg.26.1013(C), Ark. Code Ann. § 8-4-203 as referenced by Ark. Code Ann. §§ 8-4-304 and 8-4-311, and 40 C.F.R. § 52 Subpart E]

Appendix A

§ 60.266 Test methods and procedures.

(a) During any performance test required in $\S60.8$, the owner or operator shall not allow gaseous diluents to be added to the effluent gas stream after the fabric in an open pressurized fabric filter collector unless the total gas volume flow from the collector is accurately determined and considered in the determination of emissions.

(b) In conducting the performance tests required in 60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in 60.8(b).

(c) The owner or operator shall determine compliance with the particulate matter standards in §60.262 as follows:

(1) The emission rate (E) of particulate matter shall be computed for each run using the following equation:

$$E = \left[\left(\sum_{i=1}^{N} C_{si} Q_{sdi} \right) \right] / (PK)$$

where:

E=emission rate of particulate matter, kg/ MW-hr (1b/MW-hr), n=total number of exhaust streams at which

emissions are quantified.

exhaust stream "i", g/dscm (gr/dscf). $Q_{ud} = volumetric flow rate of effluent gas from$

exhaust stream "i", dscm/hr (dscf/hr). P=average furnace power input, MW.

K=conversion factor, 1000 g/kg (7000 gr/lb). (2) Method 5 shall be used to determine the particulate matter concentration (c_{u}) and volumetric flow rate (Q_{ud}) of the effluent gas, except that the heating systems specified in sections 2.1.2 and 2.1.6 are not to be used when the carbon monoxide content of the gas stream exceeds 10 percent by volume, dry basis. If a flare is used to comply with §60.263, the sampling site shall be upstream of the flare. The sampling time shall include an integral number of furnace cycles.

(i) When sampling emissions from open electric submerged arc furnaces with wet scrubber control devices, sealed electric submerged arc furnaces, or semienclosed electric arc furnaces, the sampling time and sample volume for each run shall be at least 60 minutes and 1.80 dscm (63.6 dscf).

(ii) When sampling emissions from other types of installations, the sampling time and sample volume for each run shall be at least 200 minutes and 5.66 dscm (200 dscf).

(3) The measurement device of §60.265(b) shall be used to determine the average furnace power input (P) during each run.

(4) Method 9 and the procedures in 60.11 shall be used to determine opacity.

(5) The emission rate correction factor, integrated sampling procedure of Method 3B shall be used to determine the CO concentration. The sample shall be taken simultaneously with each particulate matter sample.

(d) During the particulate matter run, the maximum open hood area (in hoods with segmented or otherwise moveable sides) under which the process is expected to be operated and remain in compliance with all standards shall be recorded. Any future operation of the hooding system with open areas in excess of the maximum is not permitted.

(e) To comply with 60.265 (d) or (f), the owner or operator shall use the monitoring devices in 60.265 (c) or (e) to make the required measurements as determined during the performance test.

[54 FR 6671, Feb. 14, 1989; 54 FR 21344, May 17, 1989, as amended at 55 FR 5212, Feb. 14, 1990; 65 FR 61758, Oct. 17, 2000]

Subpart AA—Standards of Performance for Steel Plants: Electric Arc Furnaces Constructed After October 21, 1974, and On or Before August 17, 1983

\$60.270 Applicability and designation of affected facility.

(a) The provisions of this subpart are applicable to the following affected facilities in steel plants that produce carbon, alloy, or specialty steels: electric arc furnaces and dust-handling systems.

(b) The provisions of this subpart apply to each affected facility identified in paragraph (a) of this section that commenced construction, modification, or reconstruction after October 21, 1974, and on or before August 17, 1983.

[49 FR 43843, Oct. 31, 1984]

§ 60.271 Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

(a) Electric arc furnace (EAF) means a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes. Furnaces that continuously feed direct-reduced iron ore pellets as the primary source of iron are not affected facilities within the scope of this definition.

(b) Dust-handling equipment means any equipment used to handle particulate matter collected by the control device and located at or near the control device for an EAF subject to this subpart.

(c) Control device means the air pollution control equipment used to remove particulate matter generated by an EAF(s) from the effluent gas stream.

(d) Capture system means the equipment (including ducts, hoods, fans, dampers, etc.) used to capture or transport particulate matter generated by an EAF to the air pollution control device.

(e) Charge means the addition of iron and steel scrap or other materials into the top of an electric arc furnace.

(f) Charging period means the time period commencing at the moment an EAF starts to open and ending either three minutes after the EAF roof is returned to its closed position or six minutes after commencement of opening of the roof, whichever is longer.

(g) Tap means the pouring of molten steel from an EAF.

(h) Tapping period means the time period commencing at the moment an EAF begins to pour molten steel and ending either three minutes after steel ceases to flow from an EAF, or six minutes after steel begins to flow, whichever is longer.

(i) Meltdown and refining means that phase of the steel production cycle when charge material is melted and undesirable elements are removed from the metal.

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(j) Meltdown and refining period means the time period commencing at the termination of the initial charging period and ending at the initiation of the tapping period, excluding any intermediate charging periods and times when power to the EAF is off.

(k) Shop opacity means the arithmetic average of 24 or more opacity observations of emissions from the shop taken in accordance with Method 9 of appendix A of this part for the applicable time periods.

(1) Heat time means the period commencing when scrap is charged to an empty EAF and terminating when the EAF tap is completed.

(m) Shop means the building which houses one or more EAF's.

(n) Direct shell evacuation system means any system that maintains a negative pressure within the EAF above the slag or metal and ducts these emissions to the control device.

(o) Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other conditions that result in increases in particulate loadings. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, electrodynamic, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

[40 FR 43852, Sept. 23, 1975, as amended at 49
 FR 43843, Oct. 31, 1984; 64 FR 10109, Mar. 2, 1999; 70 FR 8530, Feb. 22, 2005]

\$60.272 Standard for particulate matter.

(a) On and after the date on which the performance test required to be conducted by $\S60.8$ is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from an electric arc furnace any gases which:

(1) Exit from a control device and contain particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf).

(2) Exit from a control device and exhibit three percent opacity or greater.

(3) Exit from a shop and, due solely to operations of any EAF(s), exhibit 6 percent opacity or greater except:

(i) Shop opacity less than 20 percent may occur during charging periods.(ii) Shop opacity less than 40 percent

may occur during tapping periods.

(iii) The shop opacity standards under paragraph (a)(3) of this section shall apply only during periods when the monitoring parameter limits specified in $\S60.274$ (b) are being established according to $\S60.274$ (c) and (g), unless the owner or operator elects to perform daily shop opacity observations in lieu of furnace static pressure monitoring as provided for under $\S60.273$ (d).

(iv) Where the capture system is operated such that the roof of the shop is closed during the charge and the tap, and emissions to the atmosphere are prevented until the roof is opened after completion of the charge or tap, the shop opacity standards under paragraph (a)(3) of this section shall apply when the roof is opened and shall continue to apply for the length of time defined by the charging and/or tapping periods.

(b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from dust-handling equipment any gases which exhibit 10 percent opacity or greater.

[40 FR 43852, Sept. 23, 1975, as amended at 49 FR 43843, Oct. 31, 1984; 64 FR 10109, Mar. 2, 1999]

§ 60.273 Emission monitoring.

(a) A continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the control device(s) shall be installed, calibrated, maintained, and operated by the owner or operator subject to the provisions of this subpart.

(b) For the purpose of reports under §60.7(c), all six-minute periods during which the average opacity is three percent or greater shall indicate a period of excess emission, and shall be reported to the Administrator semi-annually.

(c) A continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the control device(s) is not

required on any modular, multi-stack, negative-pressure or positive-pressure fabric filter if observations of the opacity of the visible emissions from the control device are performed by a certified visible emission observer; or on any single-stack fabric filter if visible emissions from the control device are performed by a certified visible emission observer and the owner installs and continuously operates a bag leak detection system according to paragraph (e) of this section. Visible emission observations shall be conducted at least once per day for at least three 6minute periods when the furnace is operating in the melting and refining period. All visible emissions observations shall be conducted in accordance with Method 9 of appendix A to this part. If visible emissions occur from more than one point, the opacity shall be recorded for any points where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emission, only one set of three 6-minute observations will be required. In that case, the Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. Records shall be maintained of any 6minute average that is in excess of the emission limit specified in § 60.272(a).

(d) A furnace static pressure monitoring device is not required on any EAF equipped with a DEC system if observations of shop opacity are performed by a certified visible emission observer as follows: Shop opacity observations shall be conducted at least once per day when the furnace is operating in the meltdown and refining period. Shop opacity shall be determined as the arithmetic average of 24 or more consecutive 15-second opacity observations of emissions from the shop taken in accordance with Method 9. Shop opacity shall be recorded for any point(s) where visible emissions are observed in proximity to an affected EAF. Where it is possible to determine that a number of visible emission sites relate to only one incident of visible emissions, only one observation of shop opacity will be required. In this case, the shop opacity observations must be

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made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident.

(e) A bag leak detection system must be installed and continuously operated on all single-stack fabric filters if the owner or operator elects not to install and operate a continuous opacity monitoring system as provided for under paragraph (c) of this section. In addition, the owner or operator shall meet the visible emissions observation requirements in paragraph (c) of this section. The bag leak detection system must meet the specifications and requirements of paragraphs (e)(1) through (8) of this section.

(1) The bag leak detection system must be certified by the manufacturer to be capable of detecting particulate matter emissions at concentrations of 1 milligram per actual cubic meter (0.00044 grains per actual cubic foot) or less.

(2) The bag leak detection system sensor must provide output of relative particulate matter loadings and the owner or operator shall continuously record the output from the bag leak detection system using electronic or other means (e.g., using a strip chart recorder or a data logger.)

(3) The bag leak detection system must be equipped with an alarm system that will sound when an increase in relative particulate loading is detected over the alarm set point established according to paragraph (e)(4) of this section, and the alarm must be located such that it can be heard by the appropriate plant personnel.

(4) For each bag leak detection system required by paragraph (e) of this section, the owner or operator shall develop and submit to the Administrator or delegated authority, for approval, a site-specific monitoring plan that addresses the items identified in paragraphs (i) through (v) of this paragraph (e)(4). For each bag leak detection system that operates based on the triboelectric effect, the monitoring plan shall be consistent with the recommendations contained in the U.S. Environmental Protection Agency guidance document "Fabric Filter Bag Leak Detection Guidance" (EPA-454/R-98-015). The owner or operator shall op40 CFR Ch. 1 (7-1-10 Edition)

erate and maintain the bag leak detection system according to the site-specific monitoring plan at all times. The plan shall describe:

(i) Installation of the bag leak detection system;

(ii) Initial and periodic adjustment of the bag leak detection system including how the alarm set-point will be established;

(iii) Operation of the bag leak detection system including quality assurance procedures;

(iv) How the bag leak detection system will be maintained including a routine maintenance schedule and spare parts inventory list; and

(v) How the bag leak detection system output shall be recorded and stored.

(5) The initial adjustment of the system shall, at a minimum, consist of establishing the baseline output by adjusting the sensitivity (range) and the averaging period of the device, and establishing the alarm set points and the alarm delay time (if applicable).

(6) Following initial adjustment, the owner or operator shall not adjust the averaging period, alarm set point, or alarm delay time without approval from the Administrator or delegated authority except as provided for in paragraphs (e)(6)(i) and (ii) of this section.

(i) Once per quarter, the owner or operator may adjust the sensitivity of the bag leak detection system to account for seasonal effects including temperature and humidity according to the procedures identified in the sitespecific monitoring plan required under paragraphs (e)(4) of this section.

(ii) If opacities greater than zero percent are observed over four consecutive 15-second observations during the daily opacity observations required under paragraph (c) of this section and the alarm on the bag leak detection system does not sound, the owner or operator shall lower the alarm set point on the bag leak detection system to a point where the alarm would have sounded during the period when the opacity observations were made.

(7) For negative pressure, induced air baghouses, and positive pressure baghouses that are discharged to the atmosphere through a stack, the bag

leak detection sensor must be installed downstream of the baghouse and upstream of any wet scrubber.

(8) Where multiple detectors are required, the system's instrumentation and alarm may be shared among detectors

(f) For each bag leak detection system installed according to paragraph (e) of this section, the owner or operator shall initiate procedures to determine the cause of all alarms within 1 hour of an alarm. Except as provided for in paragraph (g) of this section, the cause of the alarm must be alleviated within 3 hours of the time the alarm occurred by taking whatever corrective action(s) are necessary. Corrective actions may include, but are not limited to the following:

(1) Inspecting the baghouse for air leaks, torn or broken bags or filter media, or any other condition that may cause an increase in particulate emissions;

(2) Sealing off defective bags or filter media:

(3) Replacing defective bags or filter media or otherwise repairing the control device;

(4) Sealing off a defective baghouse compartment;

(5) Cleaning the bag leak detection system probe or otherwise repairing the bag leak detection system; or

(6) Shutting down the process producing the particulate emissions.

(g) In approving the site-specific monitoring plan required in paragraph (e)(4) of this section, the Administrator or delegated authority may allow owners or operators more than 3 hours to alleviate specific conditions that cause an alarm if the owner or operator identifies the condition that could lead to an alarm in the monitoring plan, adequately explains why it is not feasible to alleviate the condition within 3 hours of the time the alarm occurred and demonstrates that the requested additional time will ensure alleviation of the condition as expeditiously as practicable.

[40 FR 43852, Sept. 23, 1975, as amended at 49 FR 43843, Oct. 31, 1984; 54 FR 6672, Feb. 14, 1989; 64 FR 10109, Mar. 2, 1999; 70 FR 8530, Feb. 22, 20051

§60.274 Monitoring of operations.

(a) The owner or operator subject to the provisions of this subpart shall maintain records daily of the following information:

(1) Time and duration of each charge;

(2) Time and duration of each tap; (3) All flow rate data obtained under paragraph (b) of this section, or equivalent obtained under paragraph (d) of this section: and

(4) All pressure data obtained under paragraph (f) of this section.

(b) Except as provided under paragraph (d) of this section, the owner or operator subject to the provisions of this subpart shall check and record on a once-per-shift basis furnace static pressure (if a DEC system is in use, and a furnace static pressure gauge is installed according to paragraph (f) of this section) and either: check and record the control system fan motor amperes and damper positions on a once-per-shift basis; install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate through each separately ducted hood; or install, calibrate, and maintain a monitoring device that continuously records the volumetric flow rate at the control device inlet and check and record damper positions on a once-per-shift basis. The monitoring device(s) may be installed in any appropriate location in the exhaust duct such that reproducible flow rate monitoring will result. The flow rate monitoring device(s) shall have an accuracy of ±10 percent over its normal operating range and shall be calibrated according to the manufacturer's instructions. The Administrator may require the owner or operator to demonstrate the accuracy of the monitoring device(s) relative to Methods 1 and 2 of appendix A of this part.

(c) When the owner or operator of an affected facility is required to demonstrate compliance with the standards under §60.272(a)(3) and at any other time that the Administrator may require (under section 114 of the CAA, as amended) either: the control system fan motor amperes and all damper positions, the volumetric flow rate through each separately ducted hood, or the volumetric flow rate at the control device inlet and all damper positions

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shall be determined during all periods in which a hood is operated for the purnose of capturing emissions from the affected facility subject to paragraph (b) of this section. The owner or operator may petition the Administrator for reestablishment of these parameters whenever the owner or operator can demonstrate to the Administrator's satisfaction that the EAF operating conditions upon which the parameters were previously established are no longer applicable. The values of these parameters as determined during the most recent demonstration of compliance shall be maintained at the appropriate level for each applicable period. Operation at other than baseline values may be subject to the requirements of §60.276(a).

(d) The owner or operator may petition the Administrator to approve any alternative method that will provide a continuous record of operation of each emission capture system.

(e) The owner or operator shall perform monthly operational status inspections of the equipment that is important to the performance of the total capture system (i.e., pressure sensors, dampers, and damper switches). This inspection shall include observations of the physical appearance of the equipment (e.g., presence of hole in ductwork or hoods, flow constrictions caused by dents or accumulated dust in ductwork, and fan erosion). Any deficiencies shall be noted and proper maintenance performed.
(f) Except as provided for under

§60.273(d), where emissions during any phase of the heat time are controlled by use of a direct shell evacuation system, the owner or operator shall install, calibrate, and maintain a monitoring device that continuously records the pressure in the free space inside the EAF. The pressure shall be recorded as 15-minute integrated averages. The monitoring device may be installed in any appropriate location in the EAF or DEC duct prior to the introduction of ambient air such that reproducible results will be obtained. The pressure monitoring device shall have an accuracy of ±5 mm of water gauge over its normal operating range and shall be calibrated according to the manufacturer's instructions.

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(g) Except as provided for under §60.273(d), when the owner or operator of an EAF is required to demonstrate compliance with the standard under \$60,272(a)(3) and at any other time the Administrator may require (under section 114 of the Act, as amended), the pressure in the free space inside the furnace shall be determined during the meltdown and refining period(s) using the monitoring device under paragraph (f) of this section. The owner or operator may petition the Administrator for reestablishment of the 15-minute integrated average pressure whenever the owner or operator can demonstrate to the Administrator's satisfaction that the EAF operating conditions upon which the pressures were previously established are no longer applicable. The pressure determined during the most recent demonstration of compliance shall be maintained at all times the EAF is operating in a meltdown and refining period. Operation at higher pressures may be considered by the Administrator to be unacceptable operation and maintenance of the affected facility.

(h) Where the capture system is designed and operated such that all emissions are captured and ducted to a control device, the owner or operator shall not be subject to the requirements of this section.

(i) During any performance test required under \$60.8, and for any report thereof required by \$60.276(c) of this subpart or to determine compliance with \$60.272(a)(3) of this subpart, the owner or operator shall monitor the following information for all heats covered by the test:

(1) Charge weights and materials, and tap weights and materials;

(2) Heat times, including start and stop times, and a log of process operation, including periods of no operation during testing and the pressure inside the furnace where direct-shell evacuation systems are used;

(3) Control device operation log; and
(4) Continuous opacity monitor or Method 9 data.

[40 FR 43852, Sept. 23, 1975, as amended at 49 FR 43843, Oct. 31, 1984; 64 FR 10110, Mar. 2, 1999; 65 FR 61758, Oct. 17, 2000; 70 FR 8532, Feb. 22, 2005]

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§ 60.275 Test methods and procedures.

(a) During performance tests required in §60.8, the owner or operator shall not add gaseous diluent to the effluent gas after the fabric in any pressurized fabric collector, unless the amount of dilution is separately determined and considered in the determination of emissions.

(b) When emissions from any EAF(s) are combined with emissions from facilities not subject to the provisions of this subpart but controlled by a common capture system and control device, the owner or operator shall use either or both of the following procedures during a performance test (see also §60.276(b)):

(1) Determine compliance using the combined emissions.

(2) Use a method that is acceptable to the Administrator and that compensates for the emissions from the facilities not subject to the provisions of this subpart.

(c) When emissions from any EAF(s) are combined with emissions from facilities not subject to the provisions of this subpart, the owner or operator shall use either or both of the following procedures to demonstrate compliance with \$60.272(a)(3):

(1) Determine compliance using the combined emissions.

(2) Shut down operation of facilities not subject to the provisions of this subpart during the performance test.

(d) In conducting the performance tests required in §60.8, the owner or operator shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section, except as provided in §60.8(b).

(e) The owner or operator shall determine compliance with the particulate matter standards in §60.272 as follows:

(1) Method 5 shall be used for negative-pressure fabric filters and other types of control devices and Method 5D shall be used for positive-pressure fabric filters to determine the particular matter concentration and, if applicable, the volumetric flow rate of the effluent gas. The sampling time and sample volume for each run shall be at least 4 hours and 4.5 dscm (160 dscf) and, when a single EAF is sampled, the

sampling time shall include an integral number of heats.

(2) When more than one control device serves the EAF(s) being tested, the concentration of particulate matter shall be determined using the following equation:

$$\mathbf{c}_{st} = \left[\sum_{i=1}^{n} \left(\mathbf{c}_{si} \mathbf{Q}_{sdi}\right)\right] / \sum_{i=1}^{n} \mathbf{Q}_{sdi}$$

where:

c_n=average concentration of particulate matter, mg/dscm (gr/dscf).

c_{si}=concentration of particulate matter from control device "i", mg/dscm (gr/dscf).

n=total number of control devices tested.

Q.o:=volumetric flow rate of stack gas from control device "i", dscm/hr (dscf/hr).

(3) Method 9 and the procedures of §60.11 shall be used to determine opacity.

(4) To demonstrate compliance with $\S60.272(a)$ (1), (2), and (3), the Method 9 test runs shall be conducted concurrently with the particulate matter test runs, unless inclement weather interferes.

(f) To comply with 60.274 (c), (f), (g), and (i), the owner or operator shall obtain the information in these paragraphs during the particulate matter runs.

(g) Where emissions from any EAF(s) are combined with emissions from facilities not subject to the provisions of this subpart but controlled by a common capture system and control device, the owner or operator may use any of the following procedures during a performance test:

(1) Base compliance on control of the combined emissions.

(2) Utilize a method acceptable to the Administrator which compensates for the emissions from the facilities not subject to the provisions of this subpart.

(3) Any combination of the criteria of paragraphs (g)(1) and (g)(2) of this section.

(h) Where emissions from any EAF(s) are combined with emissions from facilities not subject to the provisions of this subpart, the owner or operator may use any of the following procedures for demonstrating compliance with 0.272(a)(3):

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(1) Base compliance on control of the combined emissions.

(2) Shut down operation of facilities not subject to the provisions of this subpart.

(3) Any combination of the criteria of paragraphs (h)(1) and (h)(2) of this section.

(i) If visible emissions observations are made in lieu of using a continuous opacity monitoring system, as allowed for by §60.273(c), visible emission observations shall be conducted at least once per day for at least three 6-minute periods when the furnace is operating in the melting and refining period. All visible emissions observations shall be conducted in accordance with Method 9. If visible emissions occur from more than one point, the opacity shall be recorded for any points where visible emissions are observed. Where it is possible to determine that a number of visible emission sites relate to only one incident of the visible emission, only one set of three 6-minute observations will be required. In that case, the Method 9 observations must be made for the site of highest opacity that directly relates to the cause (or location) of visible emissions observed during a single incident. Records shall be maintained of any 6-minute average that is in excess of the emission limit specified in §60.272(a).

(j) Unless the presence of inclement weather makes concurrent testing infeasible, the owner or operator shall conduct concurrently the performance tests required under 60.8 to demonstrate compliance with 60.272(a) (1), (2), and (3) of this subpart.

[40 FR 43852, Sept. 23, 1975, as amended at 49 FR 43844, Oct. 31, 1984; 54 FR 6672, Feb. 14, 1989; 54 FR 21344, May 17, 1989; 65 FR 61758, Oct. 17, 2000; 70 FR 6532, Feb. 22, 2005]

\$60.276 Recordkeeping and reporting requirements.

(a) Operation at a furnace static pressure that exceeds the value established under 60.274(g) and either operation of control system fan motor amperes at values exceeding ± 15 percent of the value established under 60.274(c) or operation at flow rates lower than those established under 60.274(c) may be considered by the Administrator to be unacceptable operation and mainte40 CFR Ch. I (7-1-10 Edition)

nance of the affected facility. Operation at such values shall be reported to the Administrator semiannually.

(b) When the owner or operator of an EAF is required to demonstrate compliance with the standard under 60.275 (b)(2) or a combination of (b)(1) and (b)(2), the owner or operator shall obtain approval from the Administrator of the procedure(s) that will be used to determine compliance. Notification of the procedure(s) to be used must be postmarked at least 30 days prior to the performance test.

(c) For the purpose of this subpart, the owner or operator shall conduct the demonstration of compliance with $\S60.272(a)$ of this subpart and furnish the Administrator a written report of the results of the test. This report shall include the following information:

(1) Facility name and address;

(2) Plant representative;

(3) Make and model of process, control device, and continuous monitoring equipment;

(4) Flow diagram of process and emission capture equipment including other equipment or process(es) ducted to the same control device;

(5) Rated (design) capacity of process equipment;

(6) Those data required under §60.274(i) of this subpart;

(i) List of charge and tap weights and materials;

(ii) Heat times and process log;

(iii) Control device operation log; and
 (iv) Continuous opacity monitor or
 Method 9 data.

(7) Test dates and test times;

(8) Test company;

(9) Test company representative;

(10) Test observers from outside agency;

(11) Description of test methodology used, including any deviation from standard reference methods

(12) Schematic of sampling location;

(13) Number of sampling points;

(14) Description of sampling equipment;

(15) Listing of sampling equipment calibrations and procedures;

(16) Field and laboratory data sheets;
 (17) Description of sample recovery procedures;

(18) Sampling equipment leak check results;

(19) Description of quality assurance procedures;

(20) Description of analytical procedures;

(21) Notation of sample blank corrections; and

(22) Sample emission calculations.

(d) The owner or operator shall maintain records of all shop opacity observations made in accordance with \S 60.273(d). All shop opacity observations in excess of the emission limit specified in \S 60.272(a)(3) of this subpart shall indicate a period of excess emission, and shall be reported to the Administrator semi-annually, according to \S 60.7(c).

(e) The owner or operator shall maintain the following records for each bag leak detection system required under §60.273(e):

(1) Records of the bag leak detection system output;

(2) Records of bag leak detection system adjustments, including the date and time of the adjustment, the initial bag leak detection system settings, and the final bag leak detection system settings; and

(3) An identification of the date and time of all bag leak detection system alarms, the time that procedures to determine the cause of the alarm were initiated, if procedures were initiated within 1 hour of the alarm, the cause of the alarm, an explanation of the actions taken, the date and time the cause of the alarm was alleviated, and if the alarm was alleviated within 3 hours of the alarm.

[49 FR 43844, Oct. 31, 1984, as amended at 54 FR 6672, Feb. 14, 1989; 64 FR 10110, Mar. 2, 1999; 65 FR 61758, Oct. 17, 2000; 70 FR 6532, Feb. 22, 2005]

Subpart AAa—Standards of Performance for Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After August 17, 1983

SOURCE: 49 FR 43845, Oct. 31, 1984, unless otherwise noted.

§60.270a Applicability and designation of affected facility.

(a) The provisions of this subpart are applicable to the following affected facilities in steel plants that produce carbon, alloy, or specialty steels: electric arc furnaces, argon-oxygen decarburization vessels, and dust-handling systems.

(b) The provisions of this subpart apply to each affected facility identified in paragraph (a) of this section that commences construction, modification, or reconstruction after August 17, 1983.

§60.271a Definitions.

As used in this subpart, all terms not defined herein shall have the meaning given them in the Act and in subpart A of this part.

Argon-orygen decarburization vessel (AOD vessel) means any closed-bottom, refractory-lined converter vessel with submerged tuyeres through which gaseous mixtures containing argon and oxygen or nitrogen may be blown into molten steel for further refining.

Bag leak detection system means a system that is capable of continuously monitoring relative particulate matter (dust) loadings in the exhaust of a baghouse to detect bag leaks and other conditions that result in increases in particulate loadings. A bag leak detection system includes, but is not limited to, an instrument that operates on triboelectric, electrodynamic, light scattering, light transmittance, or other effect to continuously monitor relative particulate matter loadings.

Capture system means the equipment (including ducts, boods, fans. dampers, etc.) used to capture or transport particulate matter generated by an electric arc furnace or AOD vessel to the air pollution control device.

Charge means the addition of iron and steel scrap or other materials into the top of an electric arc furnace or the addition of molten steel or other materials into the top of an AOD vessel.

Control device means the air pollution control equipment used to remove particulate matter from the effluent gas stream generated by an electric arc furnace or AOD vessel.

Direct-shell evacuation control system (DEC system) means a system that Appendix B

§60.4230

Subpart JJJJ—Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

SOURCE: 73 FR 3591, Jan. 18, 2008, unless otherwise noted.

WHAT THIS SUBPART COVERS

§60.4230 Am I subject to this subpart?

(a) The provisions of this subpart are applicable to manufacturers, owners, and operators of stationary spark ignition (SI) internal combustion engines (ICE) as specified in paragraphs (a)(1) through (5) of this section. For the purposes of this subpart, the date that construction commences is the date the engine is ordered by the owner or operator.

(1) Manufacturers of stationary SI ICE with a maximum engine power less than or equal to 19 kilowatt (KW) (25 horsepower (HP)) that are manufactured on or after July 1, 2008.

(2) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are gasoline fueled or that are rich burn engines fueled by liquefied petroleum gas (LPG), where the date of manufacture is:

(i) On or after July 1, 2008; or

(ii) On or after January 1, 2009, for emergency engines.

(3) Manufacturers of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are not gasoline fueled and are not rich burn engines fueled by LPG, where the manufacturer participates in the voluntary manufacturer certification program described in this subpart and where the date of manufacture is:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1.350 HP):

(ii) On or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;

(iii) On or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or 40 CFR Ch. I (7-1-10 Edition)

(iv) On or after January 1, 2009, for emergency engines.

(4) Owners and operators of stationary SI ICE that commence construction after June 12, 2006, where the stationary SI ICE are manufactured:

(i) On or after July 1, 2007, for engines with a maximum engine power greater than or equal to 500 HP (except lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP);

(ii) on or after January 1, 2008, for lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP;

(iii) on or after July 1, 2008, for engines with a maximum engine power less than 500 HP; or

(iv) on or after January 1, 2009, for emergency engines with a maximum engine power greater than 19 KW (25 HP).

(5) Owners and operators of stationary SI ICE that commence modification or reconstruction after June 12, 2006.

(b) The provisions of this subpart are not applicable to stationary SI ICE being tested at an engine test cell/ stand.

(c) If you are an owner or operator of an area source subject to this subpart, you are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(d) For the purposes of this subpart, stationary SI ICE using alcohol-based fuels are considered gasoline engines.

(a) Stationary SI ICE may be eligible for exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C (or the exemptions described in 40 CFR parts 90 and 1048, for engines that would need to be certified to standards in those parts), except that owners and operators, as well as manufacturers, may be eligible to request an exemption for national security.

(f) Owners and operators of facilities with internal combustion engines that

are acting as temporary replacement units and that are located at a stationary source for less than 1 year and that have been properly certified as meeting the standards that would be applicable to such engine under the appropriate nonroad engine provisions, are not required to meet any other provisions under this subpart with regard to such engines.

EMISSION STANDARDS FOR MANUFACTURERS

§60.4231 What emission standards must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing such engines?

(a) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1, 2008 to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as follows:

It engine replacement is	and manufacturing dates are .	the engine must meet emission standards and related requirements for nonhandheid engines under
(2) below 225 cc (3) at or above 225 cc	July 1, 2008 to December 31, 2011 January 1, 2012 or later July 1, 2008 to December 31, 2010 January 1, 2011 or later	40 CFR part 1054. 40 CFR part 90.

(b) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) (except emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) that use gasoline and that are manufactured on or after the applicable date in §60.4230(a)(2), or manufactured on or after the applicable date in §60.4230(a)(4) for emergency stationary ICE with a maximum engine power greater than or equal to 130 HP, to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers must certify their emergency stationary SI ICE with a maximum engine power greater than 25 HP and less than 130 HP that are manufactured on or after the applicable date in $\S60.4230(a)(4)$ to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, and other requirements for new nonroad SI engines in 40 CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000

cubic centimeters (cc) to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate.

(c) Stationary SI internal combustion engine manufacturers must certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) (except emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) that are rich burn engines that use LPG and that are manufactured on or after the applicable date in §60.4230(a)(2), or manufactured on or after the applicable date in §60.4230(a)(4) for emergency stationary ICE with a maximum engine power greater than or equal to 130 HP, to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers must certify their emergency stationary SI ICE with a maximum engine power greater than 25 HP and less than 130 HP that are manufactured on or after the applicable date in §60.4230(a)(4) to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, and other requirements for new nonroad SI engines in 40

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CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate.

(d) Stationary SI internal combustion engine manufacturers who choose to certify their stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG and emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) under the voluntary manufacturer certification program described in this subpart must certify those engines to the certification emission standards for new nonroad SI engines in 40 CFR part 1048. Stationary SI internal combustion engine manufacturers who choose to certify their emergency stationary SI ICE greater than 25 HP and less than 130 HP, must certify those engines to the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, for new nonroad SI engines in 40 CFR part 90. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards for new nonroad SI engines in 40 CFR part 90 or 1054, as appropriate. For stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG and emergency stationary ICE with a maximum engine power greater than 25 HP and less than 130 HP) manufactured prior to January 1, 2011, manufacturers may choose to certify these engines to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP.

(e) Stationary SI internal combustion engine manufacturers who choose to certify their stationary SI ICE with a maximum engine power greater than 40 CFR Ch. 1 (7-1-10 Edition)

or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) under the voluntary manufacturer certification program described in this subpart must certify those engines to the emission standards in Table 1 to this subpart. Stationary SI internal combustion engine manufacturers may certify their stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) that are lean burn engines that use LPG to the certification emission standards for new nonroad SI engines in 40 CFR part 1048. For stationary SI ICE with a maximum engine power greater than or equal to 100 HP (75 KW) and less than 500 HP (373 KW) manufactured prior to January 1, 2011, and for stationary SI ICE with a maximum engine power greater than or equal to 500 HP (373 KW) manufactured prior to July 1, 2010, manufacturers may choose to certify these engines to the certification emission standards for new nonroad SI engines in 40 CFR part 1048 applicable to engines that are not severe duty engines.

(f) Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, to the extent they apply to equipment manufacturers.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59175, Oct. 8, 2008]

§60.4232 How long must my engines meet the emission standards if I am a manufacturer of stationary SI internal combustion engines?

Engines manufactured by stationary SI internal combustion engine manufacturers must meet the emission standards as required in §60.4231 during the certified emissions life of the engines.

EMISSION STANDARDS FOR OWNERS AND OPERATORS

\$60.4233 What emission standards must I meet if I am an owner or operator of a stationary SI internal combustion engine?

(a) Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) manufactured on or after July 1,

2008, must comply with the emission standards in 60.4231(a) for their stationary SI ICE.

(b) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) manufactured on or after the applicable date in $\S60.4230(a)(4)$ that use gasoline must comply with the emission standards in $\S60.4231(b)$ for their stationary SI ICE.

(c) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) manufactured on or after the applicable date in $\S 60.4230(a)(4)$ that are rich burn engines that use LPG must comply with the emission standards in \$ 60.4231(c) for their stationary SI ICE.

(d) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards for field testing in 40 CFR 1048.101(c) for their non-emergency stationary SI ICE and with the emission standards in Table 1 to this subpart for their emergency stationary SI ICE. Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) and less than 75 KW (100 HP) manufactured prior to January 1, 2011, that were certified to the standards in Table 1 to this subpart applicable to engines with a maximum engine power greater than or equal to 100 HP and less than 500 HP, may optionally choose to meet those standards.

(e) Owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 75 KW (100 HP) (except gasoline and rich burn engines that use LPG) must comply with the emission standards in Table 1 to this subpart for their stationary SI ICE. For owners and operators of stationary SI ICE with a maximum engine power greater than or equal to 100 HP (except gasoline and rich burn engines that use LPG) manufactured prior to January 1, 2011 that were certified to the certification emission standards in 40 CFR part 1048 applicable to engines that are not severe duty engines, if such stationary SI ICE was certified to a carbon monoxide (CO) standard above

the standard in Table 1 to this subpart, then the owners and operators may meet the CO certification (not field testing) standard for which the engine was certified.

(f) Owners and operators of any modified or reconstructed stationary SI ICE subject to this subpart must meet the requirements as specified in paragraphs (f)(1) through (5) of this section.

(1) Owners and operators of stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (a) of this section.

(2) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that use gasoline engines, that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (b) of this section.

(3) Owners and operators of stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) that are rich burn engines that use LPG, that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (c) of this section.

(4) Owners and operators of stationary SI natural gas and lean burn LPG engines with a maximum engine power greater than 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (d) or (e) of this section, except that such owners and operators of non-emergency engines and emergency engines greater than or equal to 130 HP must meet a nitrogen oxides (NO_x) emission standard of 3.0 grams per HP-hour (g/HP-hr), a CO emission standard of 4.0 g/HP-hr (5.0 g/ HP-hr for non-emergency engines less than 100 HP), and a volatile organic compounds (VOC) emission standard of 1.0 g/HP-hr, or a NO_x emission standard of 250 ppmvd at 15 percent oxygen (O2), a CO emission standard 540 ppmvd at 15 percent O₂ (675 ppmvd at 15 percent O₂ for non-emergency engines less than 100 HP), and a VOC emission standard

of 86 ppmvd at 15 percent O_2 , where the date of manufacture of the engine is:

(i) Prior to July 1, 2007, for non-emergency engines with a maximum engine power greater than or equal to 500 HP;

(ii) Prior to July 1, 2008, for nonemergency engines with a maximum engine power less than 500 HP;

(iii) Prior to January 1, 2009, for emergency engines.

(5) Owners and operators of stationary SI landfill/digester gas ICE engines with a maximum engine power greater than 19 KW (25 HP), that are modified or reconstructed after June 12, 2006, must comply with the same emission standards as those specified in paragraph (e) of this section for stationary landfill/directer gas engines.

(g) Owners and operators of stationary SI wellhead gas ICE engines may petition the Administrator for approval on a case-by-case basis to meet emission standards no less stringent than the emission standards that apply to stationary emergency SI engines greater than 25 HP and less than 130 HP due to the presence of high sulfur levels in the fuel, as specified in Table 1 to this subpart. The request must, at a minimum, demonstrate that the fuel has high sulfur levels that prevent the use of aftertreatment controls and also that the owner has reasonably made all attempts possible to obtain an engine that will meet the standards without the use of aftertreatment controls. The petition must request the most stringent standards reasonably applicable to the engine using the fuel.

(h) Owners and operators of stationary SI ICE that are required to meet standards that reference 40 CFR 1048.101 must, if testing their engines in use, meet the standards in that section applicable to field testing, except as indicated in paragraph (e) of this section.

§ 60.4234 How long must I meet the emission standards if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE must operate and maintain stationary SI ICE that achieve the emission standards as required in \$60.4233 over the entire life of the engine.

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OTHER REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4235 What fuel requirements must I meet if I am an owner or operator of a stationary SI gasoline fired internal combustion engine subject to this subpart?

Owners and operators of stationary SI ICE subject to this subpart that use gasoline must use gasoline that meets the per gallon sulfur limit in 40 CFR 80,195.

\$60.4236 What is the deadline for importing or installing stationary SI ICE produced in the previous model year?

(a) After July 1, 2010, owners and operators may not install stationary SI ICE with a maximum engine power of less than 500 HP that do not meet the applicable requirements in §60.4233.

(b) After July 1, 2009, owners and operators may not install stationary SI ICE with a maximum engine power of greater than or equal to 500 HP that do not meet the applicable requirements in 60.4233, except that lean burn engines with a maximum engine power greater than or equal to 500 HP and less than 1,350 HP that do not meet the applicable requirements in 60.4233 may not be installed after January 1, 2010.

(c) For emergency stationary SI ICE with a maximum engine power of greater than 19 KW (25 HP), owners and operators may not install engines that do not meet the applicable requirements in §60.4233 after January 1, 2011.

(d) In addition to the requirements specified in §§60.4231 and 60.4233, it is prohibited to import stationary SI ICE less than or equal to 19 KW (25 HP), stationary rich burn LPG SI ICE, and stationary gasoline SI ICE that do not meet the applicable requirements specified in paragraphs (a), (b), and (c) of this section, after the date specified in paragraph (a), (b), and (c) of this section.

(e) The requirements of this section do not apply to owners and operators of stationary SI ICE that have been modified or reconstructed, and they do not apply to engines that were removed from one existing location and reinstalled at a new location.

\$60.4237 What are the monitoring requirements if I am an owner or operator of an emergency stationary SI internal combustion engine?

(a) Starting on July 1, 2010, if the emergency stationary SI internal combustion engine that is greater than or equal to 500 HP that was built on or after July 1, 2010, does not meet the standards applicable to non-emergency engines, the owner or operator must install a non-resettable hour meter.

(b) Starting on January 1, 2011, if the emergency stationary SI internal combustion engine that is greater than or equal to 130 HP and less than 500 HP that was built on or after January 1, 2011, does not meet the standards applicable to non-emergency engines, the owner or operator must install a nonresettable hour meter.

(c) If you are an owner or operator of an emergency stationary SI internal combustion engine that is less than 130 HP, was built on or after July 1, 2008, and does not meet the standards applicable to non-emergency engines, you must install a non-resettable hour meter upon startup of your emergency engine.

COMPLIANCE REQUIREMENTS FOR MANUFACTURERS

§60.4238 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines <19 KW (25 HP) or a manufacturer of equipment containing such engines?

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in §60.4231(a) must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

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§60.4239 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that use gasoline or a manufacturer of equipment containing such engines?

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in §60.4231(b) must certify their stationary SI ICE using the certification procedures required in 40 CFR part 1048, subpart C, and must test their engines as specified in that part. Stationary SI internal combustion engine manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of stationary SI emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 emission standards in 40 CFR 90.103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

§ 60.4240 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines >19 KW (25 HP) that are rich burn engines that use LPG or a manufacturer of equipment containing such engines?

Stationary SI internal combustion engine manufacturers who are subject to the emission standards specified in $\S60.4231(c)$ must certify their stationary SI ICE using the certification procedures required in 40 CFR part 1048, subpart C, and must test their engines as specified in that part. Stationary SI internal combustion engine

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manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of stationary SI emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 emission standards in 40 CFR 90,103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C. as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

[73 FR 59176, Oct. 8, 2008]

§60.4241 What are my compliance requirements if I am a manufacturer of stationary SI internal combustion engines participating in the voluntary certification program or a manufacturer of equipment containing such engines?

(a) Manufacturers of stationary SI internal combustion engines with a maximum engine power greater than 19 KW (25 HP) that do not use gasoline and are not rich burn engines that use LPG can choose to certify their engines to the emission standards in §60.4231(d) or (e), as applicable, under the voluntary certification program described in this subpart. Manufacturers who certify their engines under the voluntary certification program must meet the requirements as specified in paragraphs (b) through (g) of this section. In addition, manufacturers of stationary SI internal combustion engines who choose to certify their engines under the voluntary certification program, must also meet the requirements as specified in §60.4247.

(b) Manufacturers of engines other than those certified to standards in 40 CFR part 90 or 40 CFR part 1054 must certify their stationary SI ICE using the certification procedures required in

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40 CFR part 1048, subpart C, and must follow the same test procedures that apply to large SI nonroad engines under 40 CFR part 1048, but must use the D-1 cycle of International Organization of Standardization 8178-4: 1996(E) (incorporated by reference, see 40 CFR 60.17) or the test cycle requirements specified in Table 5 to 40 CFR 1048.505, except that Table 5 of 40 CFR 1048.505 applies to high load engines only. Stationary SI internal combustion engine manufacturers who certify their stationary SI ICE with a maximum engine power less than or equal to 30 KW (40 HP) with a total displacement less than or equal to 1,000 cc to the certification emission standards and other requirements for new nonroad SI engines in 40 CFR part 90 or 40 CFR part 1054, and manufacturers of emergency engines that are greater than 25 HP and less than 130 HP who meet the Phase 1 standards in 40 CFR 90.103, applicable to class II engines, must certify their stationary SI ICE using the certification procedures required in 40 CFR part 90, subpart B, or 40 CFR part 1054, subpart C, as applicable, and must test their engines as specified in those parts. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, subpart C, to the extent they apply to equipment manufacturers.

(c) Certification of stationary SI ICE to the emission standards specified in \$60.4231(d) or (e), as applicable, is voluntary, but manufacturers who decide to certify are subject to all of the requirements indicated in this subpart with regard to the engines included in their certification. Manufacturers must clearly label their stationary SI engines as certified or non-certified engines.

(d) Manufacturers of natural gas fired stationary SI ICE who conduct voluntary certification of stationary SI ICE to the emission standards specified in §60.4231(d) or (e), as applicable, must certify their engines for operation using fuel that meets the definition of pipeline-quality natural gas. The fuel used for certifying stationary SI natural gas engines must meet the definition of pipeline-quality natural gas as

described in §60.4248. In addition, the manufacturer must provide information to the owner and operator of the certified stationary SI engine including the specifications of the pipelinequality natural gas to which the engine is certified and what adjustments the owner or operator must make to the engine when installed in the field to ensure compliance with the emission standards.

(e) Manufacturers of stationary SI ICE that are lean burn engines fieled by LPG who conduct voluntary certification of stationary SI ICE to the emission standards specified in $\S60.4231(d)$ or (e), as applicable, must certify their engines for operation using fuel that meets the specifications in 40 CFR 1065.720.

(f) Manufacturers may certify their engines for operation using gaseous fuels in addition to pipeline-quality natural gas; however, the manufacturer must specify the properties of that fuel and provide testing information showing that the engine will meet the emission standards specified in §60.4231(d) or (e), as applicable, when operating on that fuel. The manufacturer must also provide instructions for configuring the stationary engine to meet the emission standards on fuels that do not meet the pipelinequality natural gas definition. The manufacturer must also provide information to the owner and operator of the certified stationary SI engine regarding the configuration that is most conducive to reduced emissions where the engine will be operated on gaseous fuels with different quality than the fuel that it was certified to.

(g) A stationary SI engine manufacturer may certify an engine family solely to the standards applicable to landfill/digester gas engines as specified in §60.4231(d) or (e), as applicable, but must certify their engines for operation using landfill/digester gas and must add a permanent label stating that the engine is for use only in landfill/digester gas applications. The label must be added according to the labeling requirements specified in 40 CFR 1048.135(b).

(h) For purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of formaldehyde should not be included.

(i) For engines being certified to the voluntary certification standards in Table 1 of this subpart, the VOC measurement shall be made by following the procedures in 40 CFR 1065.260 and 1065.265 in order to determine the total NMHC emissions by using a flame-ionization detector and non-methane cutter. As an alternative to the nonmethane cutter, manufacturers may use a gas chromatograph as allowed under 40 CFR 1065.267 and may measure ethane, as well as methane, for excluding such levels from the total VOC measurement.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59176, Oct. 8, 2008]

\$60.4242 What other requirements must I meet if I am a manufacturer of stationary SI internal combustion engines or equipment containing stationary SI internal combustion engines or a manufacturer of equipment containing such engines?

(a) Stationary SI internal combustion engine manufacturers must meet the provisions of 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054, as applicable, as well as 40 CFR part 1068 for engines that are certified to the emission standards in 40 CFR part 1048 or 1054, except that engines certified pursuant to the voluntary certification procedures in §60.4241 are subject only to the provisions indicated in §60.4247 and are permitted to provide instructions to owners and operators allowing for deviations from certified configurations, if such deviations are consistent with the provisions of paragraphs §60.4241(c) through (f). Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part 1054 must meet the provisions of 40 CFR part 1060, as applicable. Labels on engines certified to 40 CFR part 1048 must refer to stationary engines, rather than or in addition to nonroad engines, as appropriate.

(b) An engine manufacturer certifying an engine family or families to standards under this subpart that are identical to standards applicable under 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054 for that model year may

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certify any such family that contains both nonroad and stationary engines as a single engine family and/or may include any such family containing stationary engines in the averaging, banking and trading provisions applicable for such engines under those parts. This provision also applies to equipment or component manufacturers certifying to standards under 40 CFR part 1060.

(c) Manufacturers of engine families certified to 40 CFR part 1048 may meet the labeling requirements referred to in paragraph (a) of this section for stationary SI ICE by either adding a separate label containing the information required in paragraph (a) of this section or by adding the words "and stationary" after the word "nonroad" to the label.

(d) For all engines manufactured on or after January 1, 2011, and for all engines with a maximum engine power greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, a stationary SI engine manufacturer that certifies an engine family solely to the standards applicable to emergency engines must add a permanent label stating that the engines in that family are for emergency use only. The label must be added according to the labeling requirements specified in 40 CFR 1048.135(b).

(e) All stationary SI engines subject to mandatory certification that do not meet the requirements of this subpart must be labeled according to 40 CFR 1068.230 and must be exported under the provisions of 40 CFR 1068.230. Stationary SI engines subject to standards in 40 CFR part 90 may use the provisions in 40 CFR 90.909. Manufacturers of stationary engines with a maximum engine power greater than 25 HP that are not certified to standards and other requirements under 40 CFR part 1048 are subject to the labeling provisions of 40 CFR 1048.20 pertaining to excluded stationary engines.

(f) For manufacturers of gaseousfueled stationary engines required to meet the warranty provisions in 40 CFR 90.1103 or 1054.120, we may establish an hour-based warranty period equal to at least the certified emissions life of the engines (in engine operating hours) if we determine that

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these engines are likely to operate for a number of hours greater than the applicable useful life within 24 months. We will not approve an alternate warranty under this paragraph (f) for nonroad engines. An alternate warranty period approved under this paragraph (f) will be the specified number of engine operating hours or two years, whichever comes first. The engine manufacturer shall request this alternate warranty period in its application for certification or in an earlier submission. We may approve an alternate warranty period for an engine family subject to the following conditions:

(1) The engines must be equipped with non-resettable hour meters.

(2) The engines must be designed to operate for a number of hours substantially greater than the applicable certified emissions life.

(3) The emission-related warranty for the engines may not be shorter than any published warranty offered by the manufacturer without charge for the engines. Similarly, the emission-related warranty for any component shall not be shorter than any published warranty offered by the manufacturer without charge for that component.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59177, Oct. 8, 2008]

COMPLIANCE REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4243 What are my compliance requirements if I am an owner or operator of a stationary SI internal combustion engine?

(a) If you are an owner or operator of a stationary SI internal combustion engine that is manufactured after July 1, 2008, and must comply with the emission standards specified in §60.4233(a) through (c), you must comply by purchasing an engine certified to the emission standards in §60.4231(a) through (c), as applicable, for the same engine class and maximum engine power. You must also meet the requirements as specified in 40 CFR part 1068, subparts A through D, as they apply to you. If you adjust engine settings according to and consistent with the manufacturer's instructions, your stationary SI internal combustion engine will not be considered out of compliance. In addition,

you must meet one of the requirements specified in (a)(1) and (2) of this section.

(1) If you operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, you must keep records of conducted maintenance to demonstrate compliance, but no performance testing is required if you are an owner or operator.

(2) If you do not operate and maintain the certified stationary SI internal combustion engine and control device according to the manufacturer's emission-related written instructions, your engine will be considered a noncertified engine, and you must demonstrate compliance according to (a)(2)(i) through (iii) of this section, as appropriate.

(i) If you are an owner or operator of a stationary SI internal combustion engine less than 100 HP, you must keep a maintenance plan and records of conducted maintenance to demonstrate compliance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions, but no performance testing is required if you are an owner or operator.

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than or equal to 100 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of engine startup to demonstrate compliance.

(iii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test within 1 year of en-

gine startup and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

(b) If you are an owner or operator of a stationary SI internal combustion engine and must comply with the emission standards specified in $\S60.4233(d)$ or (e), you must demonstrate compliance according to one of the methods specified in paragraphs (b)(1) and (2) of this section.

(1) Purchasing an engine certified according to procedures specified in this subpart, for the same model year and demonstrating compliance according to one of the methods specified in paragraph (a) of this section.

(2) Purchasing a non-certified engine and demonstrating compliance with the emission standards specified in \S 60.4233(d) or (e) and according to the requirements specified in \S 60.4244, as applicable, and according to paragraphs (b)(2)(i) and (ii) of this section.

(i) If you are an owner or operator of a stationary SI internal combustion engine greater than 25 HP and less than or equal to 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test to demonstrate compliance

(ii) If you are an owner or operator of a stationary SI internal combustion engine greater than 500 HP, you must keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions. In addition, you must conduct an initial performance test and conduct subsequent performance testing every 8,760 hours or 3 years, whichever comes first, thereafter to demonstrate compliance.

(c) If you are an owner or operator of a stationary SI internal combustion engine that must comply with the emission standards specified in $\S 60.4233(f)$, you must demonstrate compliance according paragraph (b)(2)(i) or (ii) of this section, except that if you

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comply according to paragraph (b)(2)(i)of this section, you demonstrate that your non-certified engine complies with the emission standards specified in §60.4233(f).

(d) Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year. as permitted in this section, is prohibited.

(e) Owners and operators of stationary SI natural gas fired engines may operate their engines using propane for a maximum of 100 hours per year as an alternative fuel solely during emergency operations, but must keep records of such use. If propane is used for more than 100 hours per year in an engine that is not certified to the emission standards when using propane, the owners and operators are required to conduct a performance test to demonstrate compliance with the emission standards of 60.4233.

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(f) If you are an owner or operator of a stationary SI internal combustion engine that is less than or equal to 500 HP and you purchase a non-certified engine or you do not operate and maintain your certified stationary SI internal combustion engine and control device according to the manufacturer's written emission-related instructions, you are required to perform initial performance testing as indicated in this section, but you are not required to conduct subsequent performance testing unless the stationary engine is rebuilt or undergoes major repair or maintenance. A rebuilt stationary SI ICE means an engine that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(g) It is expected that air-to-fuel ratio controllers will be used with the operation of three-way catalysts/nonselective catalytic reduction. The AFR controller must be maintained and operated appropriately in order to ensure proper operation of the engine and control device to minimize emissions at all times.

(h) If you are an owner/operator of an stationary SI internal combustion engine with maximum engine power greater than or equal to 500 HP that is manufactured after July 1, 2007 and before July 1, 2008, and must comply with the emission standards specified in sections 60.4233(b) or (c), you must comply by one of the methods specified in paragraphs (h)(1) through (h)(4) of this section.

(1) Purchasing an engine certified according to 40 CFR part 1048. The engine must be installed and configured according to the manufacturer's specifications.

(2) Keeping records of performance test results for each pollutant for a test conducted on a similar engine. The test must have been conducted using the same methods specified in this subpart and these methods must have been followed correctly.

(3) Keeping records of engine manufacturer data indicating compliance with the standards.

(4) Keeping records of control device vendor data indicating compliance with the standards.

TESTING REQUIREMENTS FOR OWNERS AND OPERATORS

§60.4244 What test methods and other procedures must I use if I am an owner or operator of a stationary SI internal combustion engine?

Owners and operators of stationary SI ICE who conduct performance tests must follow the procedures in paragraphs (a) through (f) of this section.

(a) Each performance test must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and according to the requirements in 60.8 and under the specific conditions that are specified by Table 2 to this subpart.

(b) You may not conduct performance tests during periods of startup, shutdown, or malfunction, as specified in $\S60.8(c)$. If your stationary SI internal combustion engine is non-operational, you do not need to startup the engine solely to conduct a performance test; however, you must conduct the performance test immediately upon startup of the engine.

(c) You must conduct three separate test runs for each performance test required in this section, as specified in $\S60.8(f)$. Each test run must be conducted within 10 percent of 100 percent peak (or the highest achievable) load and last at least 1 hour.

(d) To determine compliance with the NO_X mass per unit output emission limitation, convert the concentration of NO_X in the engine exhaust using Equation 1 of this section:

$$ER = \frac{C_d \times 1.912 \times 10^{-3} \times Q \times T}{HP - hr} \qquad (Eq.1)$$

Where:

- ER = Emission rate of NO_x in g/HP-br. C_d = Measured NO_x concentration in parts
- per million by volume (ppmv). 1.912×10⁻³ = Conversion constant for ppm NO_x to grams per standard cubic meter at
- 20 degrees Celsius. Q = Stack gas volumetric flow rate, in standard cubic meter per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, horsepower-hour (HP-hr).

(e) To determine compliance with the CO mass per unit output emission limitation, convert the concentration of CO in the engine exhaust using Equation 2 of this section:

$$ER = \frac{C_d \times 1164 \times 10^{-3} \times Q \times T}{HP - hr}$$
 (Eq.2)

Where:

ER = Emission rate of CO in g/HP-hr. C_{d} = Measured CO concentration in ppmv.

 1.164×10⁻³ = Conversion constant for ppm CO to grams per standard cubic meter at 20 de-

grees Celsius. Q = Stack gas volumetric flow rate, in stand-

ard cubic meters per hour, dry basis. T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(f) For purposes of this subpart, when calculating emissions of VOC, emissions of formaldehyde should not be included. To determine compliance with the VOC mass per unit output emission limitation, convert the concentration of VOC in the engine exhaust using Equation 3 of this section:

$$ER = \frac{C_d \times 1.833 \times 10^{-3} \times Q \times T}{HP - hr} \qquad (Eq.3)$$

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Where:

ER = Emission rate of VOC in g/HP-hr.

 $C_d = VOC$ concentration measured as propane in ppmv.

1.833×10⁻³ = Conversion constant for ppm VOC measured as propane, to grams per standard cubic meter at 20 degrees Celsius.

Q = Stack gas volumetric flow rate, in standard cubic meters per hour, dry basis.

T = Time of test run, in hours.

HP-hr = Brake work of the engine, in HP-hr.

(g) If the owner/operator chooses to measure VOC emissions using either Method 18 of 40 CFR part 60, appendix A, or Method 320 of 40 CFR part 63, appendix A, then it has the option of correcting the measured VOC emissions to account for the potential differences in measured values between these methods and Method 25A. The results from Method 18 and Method 320 can be corrected for response factor differences using Equations 4 and 5 of this section. The corrected VOC concentration can then be placed on a propane basis using Equation 6 of this section.

$$RF_{i} = \frac{C_{Mi}}{C_{Ai}} \qquad (Eq. 4)$$

Where:

RF_i = Response factor of compound i when measured with EPA Method 25A.

 C_{Mi} = Measured concentration of compound i in ppmv as carbon.

 C_{Ai} = True concentration of compound i in ppmv as carbon.

$$C_{inesc} = RF \times C_{inesc}$$
 (Eq.5)

Where:

- C_{icorr} = Concentration of compound 1 corrected to the value that would have been measured by EPA Method 25A, ppmv as carbon.
- Cimea = Concentration of compound i measured by EPA Method 320, ppmv as carbon.

$$C_{peg} = 0.6098 \times C_{icor}$$
 (Eq.6)

Where:

Creq = Concentration of compound i in mg of propane equivalent per DSCM.

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NOTIFICATION, REPORTS, AND RECORDS FOR OWNERS AND OPERATORS

§60.4245 What are my notification, reporting, and recordkeeping requirements if I am an owner or operator of a stationary SI internal combustion engine?

Owners or operators of stationary SI ICE must meet the following notification, reporting and recordkeeping requirements.

(a) Owners and operators of all stationary SI ICE must keep records of the information in paragraphs (a)(1)through (4) of this section.

 All notifications submitted to comply with this subpart and all documentation supporting any notification.
 Maintenance conducted on the engine.

(3) If the stationary SI internal combustion engine is a certified engine, documentation from the manufacturer that the engine is certified to meet the emission standards and information as required in 40 CFR parts 90, 1048, 1054, and 1060, as applicable.

(4) If the stationary SI internal combustion engine is not a certified engine or is a certified engine operating in a non-certified manner and subject to $\S60.4243(a)(2)$, documentation that the engine meets the emission standards.

(b) For all stationary SI emergency ICE greater than or equal to 500 HP manufactured on or after July 1, 2010. that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than or equal to 130 HP and less than 500 HP manufactured on or after July 1, 2011 that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. For all stationary SI emergency ICE greater than 25 HP and less than 130 HP manufactured on or after July 1, 2008, that do not meet the standards applicable to non-emergency engines, the owner or operator of must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The

owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation.

(c) Owners and operators of stationary SI ICE greater than or equal to 500 HP that have not been certified by an engine manufacturer to meet the emission standards in $\S 60.4231$ must submit an initial notification as required in $\S 60.7(a)(1)$. The notification must include the information in paragraphs (c)(1) through (5) of this section. (1) Name and address of the owner or

operator;

(2) The address of the affected source;
 (3) Engine information including make, model, engine family, serial number, model year, maximum engine power, and engine displacement;

(4) Emission control equipment; and (5) Fuel used.

(d) Owners and operators of stationary SI ICE that are subject to performance testing must submit a copy of each performance test as conducted in §60.4244 within 60 days after the test has been completed.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59177, Oct. 8, 2008]

GENERAL PROVISIONS

§60.4246 What parts of the General Provisions apply to me?

Table 3 to this subpart shows which parts of the General Provisions in §§ 60.1 through 60.19 apply to you.

MOBILE SOURCE PROVISIONS

\$60.4247 What parts of the mobile source provisions apply to me if I am a manufacturer of stationary SI internal combustion engines or a manufacturer of equipment containing such engines?

(a) Manufacturers certifying to emission standards in 40 CFR part 90, including manufacturers certifying emergency engines below 130 HP, must meet the provisions of 40 CFR part 90. Manufacturers certifying to emission standards in 40 CFR part 1054 must meet the provisions of 40 CFR part 1054. Manufacturers of equipment containing stationary SI internal combustion engines meeting the provisions of 40 CFR part

1054 must meet the provisions of 40 CFR part 1060 to the extent they apply to equipment manufacturers.

(b) Manufacturers required to certify to emission standards in 40 CFR part 1048 must meet the provisions of 40 CFR part 1048. Manufacturers certifying to emission standards in 40 CFR part 1048 pursuant to the voluntary certification program must meet the requirements in Table 4 to this subpart as well as the standards in 40 CFR 1048.101.

(c) For manufacturers of stationary SI internal combustion engines participating in the voluntary certification program and certifying engines to Table 1 to this subpart, Table 4 to this subpart shows which parts of the mobile source provisions in 40 CFR parts 1048, 1065, and 1068 apply to you. Compliance with the deterioration factor provisions under 40 CFR 1048.205(n) and 1048.240 will be required for engines built new on and after January 1, 2010. Prior to January 1, 2010, manufacturers of stationary internal combustion engines participating in the voluntary certification program have the option to develop their own deterioration factors based on an engineering analysis.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59177, Oct. 8, 2008]

DEFINITIONS

\$60.4248 What definitions apply to this subpart?

As used in this subpart, all terms not defined herein shall have the meaning given them in the CAA and in subpart A of this part.

Certified emissions life means the period during which the engine is designed to properly function in terms of reliability and fuel consumption, without being remanufactured, specified as a number of hours of operation or calendar years, whichever comes first. The values for certified emissions life for stationary SI ICE with a maximum engine power less than or equal to 19 KW (25 HP) are given in 40 CFR 90.105, 40 CFR 1054.107, and 40 CFR 1060.101, as appropriate. The values for certified emissions life for stationary SI ICE with a maximum engine power greater than 19 KW (25 HP) certified to 40 CFR part 1048 are given in 40 CFR 1048.101(g). The certified emissions life for stationary SI ICE with a maximum engine power greater than 75 KW (100 HP) certified under the voluntary manufacturer certification program of this subpart is 5,000 hours or 7 years, whichever comes first.

Certified stationary internal combustion engine means an engine that belongs to an engine family that has a certificate of conformity that complies with the emission standards and requirements in this part, or of 40 CFR part 90, 40 CFR part 1048, or 40 CFR part 1054, as appropriate.

Combustion turbine means all equipment, including but not limited to the turbine, the fuel, air, lubrication and exhaust gas systems, control systems (except emissions control equipment), and any ancillary components and subcomponents comprising any simple cycle combustion turbine, any regenerative/recuperative cycle combustion turbine, the combustion turbine portion of any cogeneration cycle combustion system, or the combustion turbine portion of any combined cycle steam/ electric generating system.

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is number 2 distillate oil.

Digester gas means any gaseous byproduct of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and carbon dioxide (CO₂).

Emergency stationary internal combustion engine means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary SI ICE used for peak 40 CFR Ch. I (7-1-10 Edition)

shaving are not considered emergency stationary ICE. Stationary ICE used to supply power to an electric grid or that supply power as part of a financial arrangement with another entity are not considered to be emergency engines.

Engine manufacturer means the manufacturer of the engine. See the definition of "manufacturer" in this section.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Landfill gas means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO_2 .

Lean burn engine means any twostroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Manufacturer has the meaning given in section 216(1) of the Clean Air Act. In general, this term includes any person who manufactures a stationary engine for sale in the United States or otherwise introduces a new stationary engine into commerce in the United States. This includes importers who import stationary engines for resale.

Maximum engine power means maximum engine power as defined in 40 CFR 1048.801.

Model year means either: The calendar year in which the engine was originally produced, or the annual new model production period of the engine manufacturer if it is different than the calendar year. This must include January 1 of the calendar year for which the model year is named. It may not begin before January 2 of the previous calendar year, and it must end by December 31 of the named calendar year. For

an engine that is converted to a stationary engine after being placed into service as a nonroad or other non-stationary engine, model year means the calendar year or new model production period in which the engine was originally produced.

Natural gas means a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Other internal combustion engine means any internal combustion engine, except combustion turbines, which is not a reciprocating internal combustion engine or rotary internal combustion engine.

Pipeline-quality natural gas means a naturally occurring fluid mixture of hydrocarbons (e.g., methane, ethane, or propane) produced in geological formations beneath the Earth's surface that maintains a gaseous state at standard atmospheric temperature and pressure under ordinary conditions, and which is provided by a supplier through a pipeline. Pipeline-quality natural gas must either be composed of at least 70 percent methane by volume or have a gross calorific value between 950 and 1,100 British thermal units per standard cubic foot.

Rich burn engine means any fourstroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to June 12, 2006, with passive emission control technology for NO_X (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Rotary internal combustion engine means any internal combustion engine which uses rotary motion to convert heat energy into mechanical work.

Spark ignition means relating to either: a gasoline-fueled engine; or any

other type of engine with a spark plug (or other sparking device) and with operating characteristics significantly similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary internal combustion engine means any internal combustion engine, except combustion turbines, that converts heat energy into mechanical work and is not mobile. Stationary ICE differ from mobile ICE in that a stationary internal combustion engine is not a nonroad engine as defined at 40 CFR 1068.30 (excluding paragraph (2)(i) of that definition), and is not used to propel a motor vehicle or a vehicle used solely for competition. Stationary ICE include reciprocating ICE, rotary ICE, and other ICE, except combustion turbines.

Stationary internal combustion engine test cell/stand means an engine test cell/ stand, as defined in subpart PPPPP of this part, that test stationary ICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Subpart means 40 CFR part 60, subpart JJJJ.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

Volatile organic compounds means volatile organic compounds as defined in 40 CFR 51.100(s).

Voluntary certification program means an optional engine certification program that manufacturers of stationary SI internal combustion engines with a maximum engine power greater than 19 KW (25 HP) that do not use gasoline and are not rich burn engines that use

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LPG can choose to participate in to certify their engines to the emission

standards in §60.4231(d) or (e), as applicable.

[73 FR 3591, Jan. 18, 2008, as amended by 73 FR 59177, Oct. 8, 2008]

TABLE 1 TO SUBPART JJJJ OF PART 60—NO_X, CO, AND VOC EMISSION STANDARDS FOR STATIONARY NON-EMERGENCY SI ENGINES ≥100 HP (EXCEPT GASOLINE AND RICH BURN LPG), STATIONARY SI LANDFILL/DIGESTER GAS ENGINES, AND STA-TIONARY EMERGENCY ENGINES >25 HP

	Maximum en- gine power	Manutec- ture date	Emission standards -					
Engine type and fuel			g/HP-hr			ppmvd at 15% O2		
			NOx	со	voc.•	NOx	co	VOC ª
Non-Emergency SI Natural Gas ^b and Non-	100≤HP<500	7/1/2008	2.0	4.0	1.0	160	540	86
Emergency St Lean Burn LPG .		1/1/2011	1.0	2.0	0.7	82	270	60
Non-Emergency SI Lean Burn Natural Gas	500≥HP<1,350	1/1/2008	2.0	4.0	1.0	160	540	86
and LPG.		7/1/2010	1.0	2.0	0.7	82	270	60
Non-Emergency St Natural Gas and Non-	HP2500	7/1/2007	2.0	4.0	1.0	160	540	86
Emergency SI Lean Burn LPG (except lean burn 500=>HP<1,350).	HP≥500	7/1/2010	1.0	2.0	0.7	62	270	60
Landfill/Digester Gas (except lean burn	HP<500	7/1/2008	3.0	5.0	1.0	220	610	80
500≥HP<1,350).		1/1/2011	2.0	5.0	1.0	150	610	80
	HP≥500	7/1/2007	3.0	5.0	1.0	220	610	80
		7/1/2010	2.0	5.0	1.0	150	610	80
Landfill/Digester Gas Lean Burn	5002HP<1,350	1/1/2008	3.0	5.0	1.0	220	610	80
	1	7/1/2010	2.0	5.0	1.0	150	610	80
Emergency	25>HP<130	1/1/2009	¢ 10	387	N/A	N/A	N/A	N/A
	ļ	ļ	2.0	4.0	1.0	:60	540	86
	HP≥130	ļ	i i		1			

^aOwners and operators of stationary non-certified SI engines may choose to comply with the emission standards in units of either gMP+¹ vor opproval at 15 percent O₂.
^bOwners and operators of new or reconstructed non-emergency lean burn SI stationary engines with a site rating of greater than or equal to 250 break HP located at a major source that are meeting the requirements of 40 CFR part 63, subpen ZZZZ, Table 2A do not have to comply with the CO emission standards of Table 1 of this subpart.
^aThe emission standards applicable to emergency engines between 25 HP and 130 HP are in terms of NO_x+HC.
^aFor purposes of this subpart, when calculating emissions of volatile organic compounds, emissions of lormaldehyde should not be included.

For each	Complying with the requirement to	You must	Using	According to the following require- ments
Stationary SI Internal combustion engine demonstrating compliance according to § 60,4244.	monstrating compliance the stationary St internal com- to § 60,4244. Bustion engine exhaust. points; B. Determine the O2 concentration (2) Metho of the stationary internal combus- tion engine exhaust at the same ASTM	and the number of traverse points; (2) Method 3, 3A, or 38 ^b of 40 CFR part 60, appendix A or	 Method 1 or 1A of 40 CFR part 60, appendix A or ASTM Method D6522-00(2005)4. Measurements to determine O₂ concentration must be made at the game time as the measure- ments for NO_X concentration. 	(a) If using a control device, the sampling site must be located at the outlet of the control device.
	iii. Determine the exhaust flowrate of the stationary internal combus-	60.		
	tion engine exhaust; iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated	(c) Measurements to determine moisture must be made at the same time as the measurement for NO _X concentration.	
	v. Meesure NO _X at the exhaust of the stationary internal combus-	by reference, see § 60.17). (5) Method 7E of 40 CFR part 60, appendix A, Method D6522-	(d) Results of this test consist of the average of the three 1-hour	
	tion engine.	00(2005)*, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see § 60.17).	or longer runs.	
	 b. limit the concentration of CO in the stationary SI internal com- bustion engine exhaust. 		(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.
	II. Determine the Q₂ concentration of the stationary internal compus- tion engine exhaust at the sam-	(2) Method 3, 3A, or 3Bb of 40 CFR part 60, appendix A or ASTM Method D6522-	(b) Measurements to determine O ₂ concentration must be made at the same time as the measure-	
ping port location; ii. Determine the exhausi of the stationary internal tion engine exhaust; IV. If necessary, measure content of the stationary compution engine or	iii. Determine the exhaust flowrate of the stationary internal combus-	00(2005)*, (3) Method 2 or 19 of 40 CFR part 60.	ments for CO concentration.	
	 If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampling port location; and 	(4) Method 4 of 40 CFR part 60, appendix A, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03 (incorporated by reference, see § 60.17).	(c) Measurements to determine moisture must be made at the same time as the measurement for CO concentration.	
	v. Measure CO at the exhaust of the stationary internal combus- tion engine.	(5) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00(2005)*, Method 320 of 40 CFR part 63, appendix A,	(d) Results of this test consist of the average of the three 1-hour or longer runs.	
		or ASTM D 6348-03 (incor- porated by reference, see § 60.17).		

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TABLE 2 TO SUBPART JJJJ OF PART 60-REQUIREMENTS FOR PERFORMANCE TESTS [As stated in \$50,4244, you must comply with the following requirements for performance tests within 10 percent of 100 percent peak (or the highest achievable) load]

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As stated in § 60.4244, you must comp	y with the following requirements for performa	nce tests within 10 percent of 100 per	cent peak (or the highest achievable) load]

For each	Complying with the requirement to	You must	Using	According to the following require- ments
	 c. limit the concentration of VOC in the stationary SI internal com- bustion engine exhaust. iii. Determine the O₂ concentration of the stationary internal combus- tion engine exhaust at the sam- pling port location; iiii. Determine the exhaust flowrate of the stationary internal combus- tion engine exhaust; iv. If necessary, measure moisture content of the stationary internal combustion engine exhaust at the sampting port location; and v. Measure VOC at the exhaust of the stationary internal combus- tion engine. 	and the number of traverse points; (2) Method 3, 3A, or 3B ^b of 40 CFR part 60, appendix A or ASTM Method D6522- 00(2005)*. (3) Method 2 or 19 of 40 CFR part 50.	concentration must be made at the same time as the measure- ments for VOC concentration. (c) Measurements to determine moisture must be made at the same time as the measurement for VOC concentration.	

ASTM D6522-00 is incorporated by reference; see 40 CFR 60.17. Also, you may petition the Administrator for approval to use alternative methods for portable analyzer. ^b You may use ASME PTC 19.10-1981, Flue and Exhaust Gas Analyses, for measuring the Q₂ content of the exhaust gas as an alternative to EPA Method 3B, ^c You may use EPA Method 18 of 40 CFR part 60, appendix A, provided that you conduct an adequate presurvey lest prior to the emissions test, such as the one described in OTM 11 on EPA's Web site (*http://www.epa.govitn/omc/prelin/otm11.pdf*), ^d You may use ASTM D6420-99 (2004), 'test Method for Determination of Gaseous Organic Compounds by Direct Interfece Gas Chromatography/Mass Spectrometry as an alternative to EPA Method 18 for measuring total nonmethane organic.

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Pt. 60, Subpt. JJJJ, Table 4

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TABLE 3 TO SUBPART JJJJ OF PART 60—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART JJJJ

[As stated in § 60.4246, 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 § 60.4248.
§60.3	Units and abbreviations	Yes.	3.000
\$60.4	Address	Yes	
§60.5	Determination of construction or modification.	Yes.	
§60.6	Review of plans	Yes	
§60.7	Notification and Record- keeping.	Yes	Except that § 60.7 only ap- plies as specified in § 60.4245.
§60,8	Performance tests	Yes	Except that § 60.8 only ap- plies to owners and opera- tors who are subject to per- formance testing in subpart JUJJ.
§60.9	Availability of information	Yes.	1
§ 60.10	State Authority	Yes.	
§60.11	Compliance with standards and maintenance require- ments.	Yes	Requirements are specified in subpart USU.
§ 60, 12	Circumvention	Yes,	{
§60,13	Monitoring requirements	No.	
§60,14	Modification	Yes.	(
§60.15	Reconstruction	Yes.	1
§ 60,16	Priority list	Yes.	1
§ 60.17	Incorporations by reference	Yes.	4
§60.18	General control device re- guirements.	No.	
§60.19	General notification and re- porting requirements.	Yes.	1

TABLE 4 TO SUBPART JJJJ OF PART 60-APPLICABILITY OF MOBILE SOURCE PROVI-SIONS FOR MANUFACTURERS PARTICIPATING IN THE VOLUNTARY CERTIFICATION PROGRAM AND CERTIFYING STATIONARY SI ICE TO EMISSION STANDARDS IN TABLE 1 OF SUBPART JJJJ

[As stated in § 60.4247, you must comply with the following applicable mobile source provisions if you are a manufacturer participating in the voluntary cartification program and certifying stationary SI ICE to emission standards in Table 1 of subpart JUU]

Mobile source provisions cita- tion	Subject of citation	Applies to subpart	Explanation
1048 subpart A	Overview and Applicability	Yes.	
1048 subpart B	Emission Standards and Re- lated Requirements.	Yes	Except for the specific sec- tions below.
1048.101	Exhaust Emission Standards	No.	ļ
1048.105	Evaporative Emission Stand- ards.	No.	
1048,110	Diagnosing Malfunctions	No.	1
1048.140	Centifying Blue Sky Series Engines.	No.	
1048.145	Interim Provisions	No.	1
1048 subpart C	Centifying Engine Families	Yes	Except for the specific sec- tions below.
1048,205(b)	AECD reporting	Yes.	1
1046,205(c)		No.]
1048.205(n)	Deterioration Factors	Yes	Except as indicated in 60.4247(c).
1048.205(p)(1)	Deterioration Fector Discus- sion.	Yes.	
1048.205(p)(2)	Liquid Fuels as they require	No.	ł
1048.240(b)(c)(d)		Yes.	4
1048 subpart D		Yes.	
1048 subpart E	Testing In-Use Engines	No.	1
	Test Procedures		ł

§60.4300

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[As stated in §60.4247, you must compty with the following applicable mobile source provisions if you are a manufacturer participating in the voluntary certification program and certifying stationary SI ICE to emission standards in Table 1 of subpart JUU]

Mobile source provisions cita- tion	Subject of citation	Applies to subpart	Explanation
1065.5(a)(4)	Raw sampling (refers reader back to the specific emis- sions regulation for guid- ance).	Yes.	
1048 subpart G 1048 subpart H		Yes.	
1048 subpart i	Definitions and Other Ref- erence Information.	Yes.	
1048 appendix I and II	Yes.	Į	
1065 (all subparts)	Engine Testing Procedures	Yes	Except for the specific section below.
1065.715	Test Fuel Specifications for Natural Gas.	No.	
1068 (all subparts)	General Compliance Provi- sions for Nonroad Pro- grams.	Yes	Except for the specific sec- tions below.
1068.245	Hardship Provisions for Un- usual Circumstances.	NO.	
1068.250	Hardship Provisions for Small-Volume Manufactur- ers.	No.	
1068.255	Hardship Provisions for Equipment Manufacturers and Secondary Engine Manufacturers.	No.	

Subpart KKKK—Standards of Performance for Stationary Combustion Turbines

SOURCE: 71 FR 38497, July 6, 2006, unless otherwise noted.

INTRODUCTION

§60.4300 What is the purpose of this subpart?

This subpart establishes emission standards and compliance schedules for the control of emissions from stationary combustion turbines that commenced construction, modification or reconstruction after February 18, 2005.

APPLICABILITY

§60.4305 Does this subpart apply to my stationary combustion turbine?

(a) If you are the owner or operator of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005, your turbine is subject to this subpart. Only heat input to the combustion turbine should be included when deter-

mining whether or not this subpart is applicable to your turbine. Any additional heat input to associated heat recovery steam generators (HRSG) or duct burners should not be included when determining your peak heat input. However, this subpart does apply to emissions from any associated HRSG and duct burners.

(b) Stationary combustion turbines regulated under this subpart are exempt from the requirements of subpart GG of this part. Heat recovery steam generators and duct burners regulated under this subpart are exempted from the requirements of subparts Da, Db, and Dc of this part.

§60.4310 What types of operations are exempt from these standards of performance?

(a) Emergency combustion turbines, as defined in 60.4420(i), are exempt from the nitrogen oxides (NO_X) emission limits in 60.4320.

(b) Stationary combustion turbines engaged by manufacturers in research and development of equipment for both combustion turbine emission control techniques and combustion turbine efficiency improvements are exempt from the NO_X emission limits in Appendix C

SUBCHAPTER C-AIR PROGRAMS (CONTINUED)

63-NATIONAL EMISSION PART STANDARDS FOR HAZARDOUS AIR POLLUTANTS FOR SOURCE CATEGORIES (CONTINUED)

Subpart 2222-National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Com**bustion Engines**

WHAT THIS SUBPART COVERS

- Sec. 63.6580 What is the purpose of subpart 7.7.7.7.?
- 63.6585 Am I subject to this subpart?
- 63.6590 What parts of my plant does this subpart cover? 63.6595 When do I have to comply with this
- subpart?

EMISSION LIMITATIONS

- 63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?
- 63.6601 What emission limitations must I meet if I own or operate a 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than 500 brake HP located at a major source of HAP emissions?
- 63.6602 What emission limitations must I meet if I own or operate an existing sta-tionary CI RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?
- 63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary CI RICE located at an area source of HAP emissions?
- 63.6604 What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

GENERAL COMPLIANCE REQUIREMENTS

63.6605 What are my general requirements for complying with this subpart?

TESTING AND INITIAL COMPLIANCE REQUIREMENTS

63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

- 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?
- 63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAF emissions?
- 63.6615 When must I conduct subsequent performance tests?
- 63.6620 What performance tests and other procedures must I use?
- 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?
- 63.6630 How do I demonstrate initial compliance with the emission limitations and operating limitations?

CONTINUOUS COMPLIANCE REQUIREMENTS

- 63.6635 How do I monitor and collect data to demonstrate continuous compliance?
- 63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

NOTIFICATION, REPORTS, AND RECORDS

- 63.6645 What notifications must I submit and when? 63.6650 What reports must I submit and
- when?
- 63.6655 What records must I keep? 63.6660 In what form and how long must I keep my records?

OTHER REQUIREMENTS AND INFORMATION

- 63.6665 What parts of the General Provisions apply to me? 63.6670 Who implements and enforces this
- subpart? 5675 What definitions apply to this sub-63.6675
- TABLE 1A TO SUBPART ZZZZ OF PART 63-EMISSION LIMITATIONS FOR EXISTING, NEW, AND RECONSTRUCTED SPARK IGNI-TION, 4SRB STATIONARY RICE >500 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS
- TABLE 1B TO SUBPART ZZZZ OF PART 63-OP-ERATING LIMITATIONS FOR EXISTING, NEW, AND RECONSTRUCTED SPARK IGNITION, 4SRB STATIONARY RICE >600 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS

- TABLE 2A TO SUBPART ZZZZ OF PART 63-EMISSION LIMITATIONS FOR NEW AND RE-CONSTRUCTED 2SLB AND COMPRESSION IG-NITION STATIONARY RICE >500 HP AND NEW AND RECONSTRUCTED 4SLB STA-TIONARY RICE 2250 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS TABLE 2B TO SUBPART ZZZZ OF PART 63-OP-
- ERATING LIMITATIONS FOR NEW AND RE-CONSTRUCTED 2SLB AND COMPRESSION IG-NITION STATIONARY RICE >500 HP LO-CATED AT A MAJOR SOURCE OF HAP EMIS SIONS, EXISTING NON-EMERGENCY COM-PRESSION IGNITION STATIONARY RICE >500 HP, AND NEW AND RECONSTRUCTED 4SLB BURN STATIONARY RICE 2250 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS
- TABLE 2C TO SUBPART ZZZZ OF PART 63-RE-QUIREMENTS FOR EXISTING COMPRESSION IGNITION STATIONARY RICE LOCATED AT MAJOR SOURCES OF HAP EMISSIONS
- TABLE 2D TO SUBPART ZZZZ OF PART 63-RE-QUIREMENTS FOR EXISTING COMPRESSION IONITION STATIONARY RICE LOCATED AT
- AREA SOURCES OF HAP EMISSIONS TABLE 3 TO SUBPART ZZZZ OF PART 63-SUB-SEQUENT PERFORMANCE TESTS
- TABLE 4 TO SUBPART ZZZZ OF PART 63-RE-QUIREMENTS FOR PERFORMANCE TESTS
- TABLE 5 TO SUBPART ZZZZ OF PART 63-INI-TIAL COMPLIANCE WITH EMISSION LIMITA-
- TIONS AND OPERATING LIMITATIONS TABLE 6 TO SUBPART ZZZZ OF PART 63-CON-TINUOUS COMPLIANCE WITH EMISSION LIMI-
- TATIONS AND OPERATING LIMPTATIONS TABLE 7 TO SUBPART ZZZZ OF PART 63-RE-
- QUIREMENTS FOR REPORTS TABLE 8 TO SUBPART ZZZZ OF PART 63-AP-PLICABILITY OF GENERAL PROVISIONS TO SUBPART ZZZZ

Subpart AAAAA-National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants

WHAT THIS SUBPART COVERS

- 63.7080 What is the purpose of this subpart?
- Am I subject to this subpart? What parts of my plant does this 63 7081
- 63.7082 subpart cover? 63.7083 When do I have to comply with this
- subpart?

EMISSION LIMITATIONS

63.7090 What emission limitations must I meet?

GENERAL COMPLIANCE REQUIREMENTS

63.7100 What are my general requirements for complying with this subpart?

TESTING AND INITIAL COMPLIANCE REQUIREMENTS

63.7110 By what date must I conduct performance tests and other initial compliance demonstrations?

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- 63.7111 When must I conduct subsequent performance tests?
- 63.7112 What performance tests, design evaluations, and other procedures must I use?
- 63.7113 What are my monitoring installation, operation, and maintenance reovirements?
- 63.7114 How do I demonstrate initial compliance with the emission limitations standard?

CONTINUOUS COMPLIANCE REQUIREMENTS

- 63.7120 How do I monitor and collect data to demonstrate continuous compliance?
- 63.7121 How do I demonstrate continuous compliance with the emission limitations standard?

NOTIFICATIONS, REPORTS, AND RECORDS

- 63.7130 What notifications must I submit and when? 63.7131 What reports must I submit and
- when?
- 63.7132 What records must I keep? 63.7133 In what form and for how long must I keep my records?

OTHER REQUIREMENTS AND INFORMATION

- 63,7140 What parts of the General Provisions apply to me?
- 63.7141 Who implements and enforces this subpart?
- 63.7142 What are the requirements for claiming area source status?
- 63.7143 What definitions apply to this subpart?
- TABLE 1 TO SUBPART AAAAA OF PART 63-EMISSION LIMITS
- TABLE 2 TO SUBPART AAAAA OF PART 63-OP-ERATING LIMITS
- TABLE 3 TO SUBPART AAAAA OF PART 63-INI-TIAL COMPLIANCE WITH EMIBSION LIMITS TABLE 4 TO SUBPART AAAAA OF PART 63-RE-
- QUIREMENTS FOR PERFORMANCE TESTS TABLE 5 TO SUBPART AAAAA OF PART 63-
- CONTINUOUS COMPLIANCE WITH OPERATING LIMITS
- TABLE 6 TO SUBPART AAAAA OF PART 63-PERIODIC MONITORING FOR COMPLIANCE WITH OPACITY AND VISIBLE EMISSIONS LIMITS
- TABLE 7 TO SUBPART AAAAA OF PART 63-RE-QUIREMENTS FOR REPORTS
- TABLE 8 TO SUBPART AAAAA OF PART 63-AP-PLICABILITY OF CENERAL PROVISIONS TO SUBPART AAAAA

Subpart BBBBB-National Emission Standards for Hazardous Air Pollutants for Semiconductor Manufacturing

WHAT THIS SUBPART COVERS

63.7180 What is the purpose of this subpart? 63.7181 Am I subject to this subpart?

- 63.7182 What parts of my facility does this subpart cover?
- 63.7183 When do I have to comply with this subpart?

EMISSION STANDARDS

63.7184 What emission limitations, operating limits, and work practice standards must I meet?

COMPLIANCE REQUIREMENTS

- 63.7185 What are my general requirements for complying with this subpart?
- 63.7186 By what date must I conduct performance tests or other initial compliance demonstrations?
- 63.7187 What performance tests and other
- compliance procedures must I use? 63.7188 What are my monitoring installation, operation, and maintenance reouirements?
- APPLICATIONS, NOTIFICATIONS, REPORTS, AND RECORDS
- 63.7189 What applications and notifications must I submit and when?
- 63.7190 What reports must I submit and when?
- 63.7191 What records must I keep? 63.7192 In what form and how long must I keep my records?

OTHER REQUIREMENTS AND INFORMATION

- 63.7193 What parts of the General Provisions apply to me?
- 63.7194 Who implements and enforces this subpart? 63.7195 What definitions apply to this sub-
- part? TABLE 1 TO SUBPART BBBBB OF PART 63-RE-
- OUTREMENTS FOR PERFORMANCE TESTS. TABLE 2 TO SUBPART BBBBB OF PART 53 -AP-
- PLICABILITY OF GENERAL PROVISIONS TO SUBPART BBBBB
- Subpart CCCCC-National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and **Battery Stacks**

WHAT THIS SUBPART COVERS

- 63.7280 What is the purpose of this subpart?
- 63,7281 Am I subject to this subpart?
- 63.7282 What parts of my plant does this subpart cover?
- 63.7283 When do I have to comply with this subpart?

EMISSION LIMITATIONS AND WORK PRACTICE STANDARDS

- 63.7290 What emission limitations must I meet for capture systems and control devices applied to pushing emissions?
- 63.7291 What work practice standards must l meet for fugitive pushing emissions if I

- have a by-product coke oven battery with vertical flues?
- 63.7292 What work practice standards must I meet for fugitive pushing emissions if I have a by-product coke oven battery with horizontal flues?
- 63.7293 What work practice standards must I meet for fugitive pushing emissions if I have a non-recovery coke oven battery?
- 63.7294 What work practice standard must I meet for soaking?
- 63.7295 What requirements must I meet for ouenching?
- 63,7296 What emission limitations must I meet for battery stacks?

OPERATION AND MAINTENANCE REQUIREMENTS

63.7300 What are my operation and maintenance requirements?

GENERAL COMPLIANCE REQUIREMENTS

63.7310 What are my general requirements for complying with this subpart?

INITIAL COMPLIANCE REQUIREMENTS

- 63.7320 By what date must I conduct performance tests or other initial compliance demonstrations?
- 63,7321 When must I conduct subsequent performance tests?
- 63.7322 What test methods and other proce dures must I use to demonstrate initial compliance with the emission limits for particulate matter?
- 63.7323 What procedures must I use to estab-
- lish operating limits? 63.7324 What procedures must I use to dem-onstrate initial compliance with the opacity limits?
- 63,7325 What test methods and other procedures must I use to demonstrate initial compliance with the TDS or constituent limits for quench water?
- 63.7326 How do I demonstrate initial compliance with the emission limitations that apply to me?
- 63.7327 How do I demonstrate initial compliance with the work practice standards that apply to me?
- 63.7328 How do I demonstrate initial compliance with the operation and maintenance requirements that apply to me?

CONTINUOUS COMPLIANCE REQUIREMENTS

- 63.7330 What are my monitoring requirements?
- 63.7331 What are the installation, operation. and maintenance requirements for my monitors?
- 63.7332 How do I monitor and collect data to demonstrate continuous compliance?
- 63.7333 How do I demonstrate continuous compliance with the emission limitations that apply to me?

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- 63.7334 How do I demonstrate continuous compliance with the work practice standards that apply to me?
- 63.7335 How do I demonstrate continuous compliance with the operation and maintenance requirements that apply to me?
- 63.7336 What other requirements must 1 meet to demonstrate continuous compliance?

NOTIFICATIONS, REPORTS, AND RECORDS

- 63.7340 What notifications must I submit and when?
- 63.7341 What reports must I submit and when?
- 63.7342 What records must I keep? 63.7343 In what form and how long must I

keep my records?

OTHER REQUIREMENTS AND INFORMATION

- 63.7350 What parts of the General Provisions apply to me?
- 63.7351 Who implements and enforces this subpart?
- 63.7352 What definitions apply to this subpart?
- TABLE 1 TO SUBPART CCCCC OF PART 63-AP-PLICABILITY OF GENERAL PROVISIONS TO SUBPART CCCCC
- Subpart DDDDD—National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters

WHAT THIS SUBPART COVERS

- 63.7480 What is the purpose of this subpart?
- 63.7485 Am I subject to this subpart?
- 63.7490 What is the affected source of this subpart?
- 63.7491 Are any boilers or process heaters not subject to this subpart?
- 63.7495 When do I have to comply with this subpart?

EMISSION LIMITS AND WORK PRACTICE STANDARDS

- 63.7499 What are the subcategories of boilers and process heaters?
- 63.7500 What emission limits, work practice standards, and operating limits must I meet?

GENERAL COMPLIANCE REQUIREMENTS

- 63.7505 What are my general requirements for complying with this subpart?
- 63.7506 Do any boilers or process heaters have limited requirements?
- 63.7507 What are the health-based compliance alternatives for the hydrogen chloride (HCl) and total selected metals (TSM) standards?

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- Testing, Fuel Analyses, and Initial Compliance Requirements
- 63.7510 What are my initial compliance requirements and by what date must I conduct them?
- 63.7515 When must I conduct subsequent performance tests or fuel analyses?63.7520 What performance tests and proce-
- dures must I use? 63,7521 What fuel analyses and procedures
- must luse?
- 63.7522 Can I use emission averaging to comply with this subpart?
- 63.7525 What are my monitoring, installation, operation, and maintenance requirements?
- 63.7530 How do I demonstrate initial compliance with the emission limits and work practice standards?

CONTINUOUS COMPLIANCE REQUIREMENTS

- 63.7535 How do I monitor and collect data to demonstrate continuous compliance?
- 63.7540 How do I demonstrate continuous compliance with the emission limits and work practice standards?
- 63.7541 How do I demonstrate continuous compliance under the emission averaging provision?

NOTIFICATIONS, REPORTS, AND RECORDS

- 63.7545 What notifications must I submit and when?
- 63.7550 What reports must I submit and when?
- 63.7555 What records must I keep?
- 63.7560 In what form and how long must I keep my records?

OTHER REQUIREMENTS AND INFORMATION

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AUTHORITY; 42 U.S.C. 7401 et seq.

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Subpart ZZZ—National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines

SOURCE: 69 FR 33506, June 15, 2004, unless otherwise noted.

WHAT THIS SUBPART COVERS

§63.6580 What is the purpose of subpart ZZZZ?

Subpart ZZZZ establishes national emission limitations and operating limitations for hazardous air pollutants (HAP) emitted from stationary reciprocating internal combustion engines (RICE) located at major and area sources of HAP emissions. This subpart 40 CFR Ch. 1 (7-1-10 Edition)

also establishes requirements to demonstrate initial and continuous compliance with the emission limitations and operating limitations.

[73 FR 3603, Jan. 18, 2008]

§63.6585 Am I subject to this subpart?

You are subject to this subpart if you own or operate a stationary RICE at a major or area source of HAP emissions, except if the stationary RICE is being tested at a stationary RICE test cell/ stand.

(a) A stationary RICE is any internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a non-road engine as defined at 40 CFR 1068.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

(b) A major source of HAP emissions is a plant site that emits or has the potential to emit any single HAP at a rate of 10 tons (9.07 megagrams) or more per year or any combination of HAP at a rate of 25 tons (22.68 megagrams) or more per year, except that for oil and gas production facilities, a major source of HAP emissions is determined for each surface site.

(c) An area source of HAP emissions is a source that is not a major source.

(d) If you are an owner or operator of an area source subject to this subpart, your status as an entity subject to a standard or other requirements under this subpart does not subject you to the obligation to obtain a permit under 40 CFR part 70 or 71, provided you are not required to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a) for a reason other than your status as an area source under this subpart. Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart as applicable.

(e) If you are an owner or operator of a stationary RICE used for national security purposes, you may be eligible to request an exemption from the requirements of this subpart as described in 40 CFR part 1068, subpart C.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3603, Jan. 18, 2008]

\$63.6590 What parts of my plant does this subpart cover?

This subpart applies to each affected source.

(a) Affected source. An affected source is any existing, new, or reconstructed stationary RICE located at a major or area source of HAP emissions, excluding stationary RICE being tested at a stationary RICE test cell/stand.

(1) Existing stationary RICE.

(i) For stationary RICE with a site rating of more than 500 brake horsepower (HP) located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before December 19, 2002.

(ii) For stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iii) For stationary RICE located at an area source of HAP emissions, a stationary RICE is existing if you commenced construction or reconstruction of the stationary RICE before June 12, 2006.

(iv) A change in ownership of an existing stationary RICE does not make that stationary RICE a new or reconstructed stationary RICE.

(2) New stationary RICE. (i) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is new if you commenced construction of the stationary RICE on or after June 12, 2006.

(3) Reconstructed stationary RICE. (1) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and recon-

struction is commenced on or after December 19, 2002.

(ii) A stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions is reconstructed if you meet the definition of reconstruction in $\S63.2$ and reconstruction is commenced on or after June 12, 2006.

(iii) A stationary RICE located at an area source of HAP emissions is reconstructed if you meet the definition of reconstruction in §63.2 and reconstruction is commenced on or after June 12, 2006.

(b) Stationary RICE subject to limited requirements. (1) An affected source which meets either of the criteria in paragraphs (b)(1)(1) through (11) of this section does not have to meet the requirements of this subpart and of subpart A of this part except for the initial notification requirements of ξ 63.6645(f).

(i) The stationary RICE is a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(ii) The stationary RICE is a new or reconstructed limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(2) A new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis must meet the initial notification requirements of $\S63.6645(h)$ and the requirements of $\S63.6625(c)$, 63.6650(g), and 63.6655(c). These stationary RICE do not have to meet the emission limitations and operating limitations of this subpart.

(3) A stationary RICE which is an existing spark ignition 4 stroke rich burn (4SRB) stationary RICE located at an area source of HAP emissions; an existing spark ignition 4SRB stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions; an existing spark ignition 2 stroke lean burn (2SLB) stationary RICE; an existing spark ignition 4 stroke lean burn (4SLB) stationary RICE; an existing

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compression ignition emergency stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions; an existing spark ignition emergency or limited use stationary RICE; an existing limited use stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions: an existing stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; or an existing stationary residential, commercial, or institutional emergency stationary RICE located at an area source of HAP emissions, does not have to meet the requirements of this subpart and of subpart A of this part. No initial notification is necessary.

(c) Stationary RICE subject to Regulations under 40 CFR Part 60. An affected source that is a new or reconstructed stationary RICE located at an area source, or is a new or reconstructed stationary RICE located at a major source of HAP emissions and is a spark ignition 2 stroke lean burn (2SLB) stationary RICE with a site rating of less than 500 brake HP, a spark ignition 4 stroke lean burn (4SLB) stationary RICE with a site rating of less than 250 brake HP, or a 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake HP, a stationary RICE with a site rating of less than or equal to 500 brake HP which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake HP, or a compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake HP, must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9674, Mar. 3, 2010; 75 FR 37733, June 30, 2010]

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\$63.6595 When do I have to comply with this subpart?

(a) Affected sources. (1) If you have an existing stationary RICE, excluding existing non-emergency CI stationary RICE, with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than June 15, 2007. If you have an existing non-emergency CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, an existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, or an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the applicable emission limitations and operating limitations no later than May 3. 2013.

(2) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions before August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart no later than August 16, 2004.

(3) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions after August 16, 2004, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(4) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(5) If you start up your new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions after January 18, 2008, you

must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(6) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions before January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart no later than January 18, 2008.

(7) If you start up your new or reconstructed stationary RICE located at an area source of HAP emissions after January 18, 2008, you must comply with the applicable emission limitations and operating limitations in this subpart upon startup of your affected source.

(b) Area sources that become major sources. If you have an area source that increases its emissions or its potential to emit such that it becomes a major source of HAP, the compliance dates in paragraphs (b)(1) and (2) of this section apply to you.

(1) Any stationary RICE for which construction or reconstruction is commenced after the date when your area source becomes a major source of HAP must be in compliance with this subpart upon startup of your affected source.

(2) Any stationary RICE for which construction or reconstruction is commenced before your area source becomes a major source of HAP must be in compliance with the provisions of this subpart that are applicable to RICE located at major sources within 3 years after your area source becomes a major source of HAP.

(c) If you own or operate an affected source, you must meet the applicable notification requirements in §63.6645 and in 40 CFR part 63, subpart A.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3604, Jan. 18, 2008; 75 FR 9675, Mar. 3, 2010]

EMISSION AND OPERATING LIMITATIONS

§63.6600 What emission limitations and operating limitations must I meet if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs

using the testing requirements and procedures in 63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing, new, or reconstructed spark ignition 4SRB stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table la to this subpart and the operating limitations in Table Ib to this subpart which apply to you.

(b) If you own or operate a new or reconstructed 2SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, a new or reconstructed 4SLB stationary RICE with a site rating of more than 500 brake HP located at major source of HAP emissions, or a new or reconstructed CI stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(c) If you own or operate any of the following stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the emission limitations in Tables 1a, 2a, 2c, and 2d to this subpart or operating limitations in Tables 1b and 2b to this subpart: an existing 4SLB stationary RICE; an existing 4SLB stationary RICE; a stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis; an emergency stationary RICE, or a limited use stationary RICE.

(d) If you own or operate an existing non-emergency stationary CI RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

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\$63.6601 What emission limitations must 1 meet if 1 own or operate a 4SLB stationary RICE with a site rating of greater than or equal to 250 brake HP and less than 500 brake HP located at a major source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart. If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at major source of HAP emissions manufactured on or after January 1, 2008, you must comply with the emission limitations in Table 2a to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

[73 FR 3605, Jan. 18, 2008, as amended at 75 FR 9675, Mar. 3, 2010]

§63.6602 What emission limitations must I meet if I own or operate an existing stationary CI RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions?

If you own or operate an existing stationary CI RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions, you must comply with the emission limitations in Table 2c to this subpart which apply to you. Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and procedures in §63.6620 and Table 4 to this subpart.

[75 FR 9675, Mar. 3, 2010]

\$63.6603 What emission limitations and operating limitations must I meet if I own or operate an existing stationary CI RICE located at an area source of HAP emissions?

Compliance with the numerical emission limitations established in this subpart is based on the results of testing the average of three 1-hour runs using the testing requirements and 40 CFR Ch. 1 (7-1-10 Edition)

procedures in §63.6620 and Table 4 to this subpart.

(a) If you own or operate an existing stationary CI RICE located at an area source of HAP emissions, you must comply with the requirements in Table 2d to this subpart and the operating limitations in Table 2b to this subpart which apply to you.

(b) If you own or operate an existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the Federal Aid Highway System (FAHS) you do not have to meet the numerical CO emission limitations specified in Table 2d to this subpart. Existing stationary non-emergency CI RICE greater than 300 HP located at area sources in areas of Alaska not accessible by the FAHS must meet the management practices that are shown for stationary non-emergency CI RICE less than or equal to 300 HP in Table 2d to this subpart.

[75 FR 9675, Mar. 3, 2010]

§ 63.6604 What fuel requirements must I meet if I own or operate an existing stationary CI RICE?

If you own or operate an existing non-emergency CI stationary RICE with a site rating of more than 300 brake HP with a displacement of less than 30 liters per cylinder that uses diesel fuel, you must use diesel fuel that meets the requirements in 40 CFR 80.510(b) for nonroad diesel fuel. Existing non-emergency CI stationary RICE located in Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or at area sources in areas of Alaska not accessible by the FAHS are exempt from the requirements of this section.

[75 FR 9675, Mar. 3, 2010]

GENERAL COMPLIANCE REQUIREMENTS

§63.6605 What are my general requirements for complying with this subpart?

(a) You must be in compliance with the emission limitations and operating limitations in this subpart that apply to you at all times.

(b) At all times you must operate and maintain any affected source, including associated air pollution control

equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records. and inspection of the source.

[75 FR 9675, Mar. 3, 2010]

TESTING AND INITIAL COMPLIANCE REQUIREMENTS

§ 63.6610 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions?

If you own or operate a stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct the initial performance test or other initial compliance demonstrations in Table 4 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in § 63.6595 and according to the provisions in § 63.7(a)(2).

(b) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you must demonstrate initial compliance with either the proposed emission limitations or the promulgated emission limitations no later than February 10, 2005 or no later than 180 days after startup of the source, whichever is later, according to $\S63.7(a)(2)(ix)$.

(c) If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004 and own or operate stationary RICE with a site rating of more than 500 brake HP located at a

major source of HAP emissions, and you chose to comply with the proposed emission limitations when demonstrating initial compliance, you must conduct a second performance test to demonstrate compliance with the promulgated emission limitations by December 13, 2007 or after startup of the source, whichever is later, according to $\S63.7(a)(2)(ix)$.

(d) An owner or operator is not required to conduct an initial performance test on units for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (d)(1) through (5) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

(5) The test must be conducted at any load condition within plus or minus 10 percent of 100 percent load.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3605, Jan. 18, 2008]

§ 63.6611 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate a 4SLB SI stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions?

If you own or operate a new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must conduct an initial performance test within 240 days after the compliance date that is specified for your stationary RICE in § 63.6595

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and according to the provisions specified in Table 4 to this subpart, as appropriate.

(73 FR 3605, Jan. 18, 2008)

§63.6612 By what date must I conduct the initial performance tests or other initial compliance demonstrations if I own or operate an existing stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary RICE located at an area source of HAP emissions?

If you own or operate an existing CI stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing stationary CI RICE located at an area source of HAP emissions you are subject to the requirements of this section.

(a) You must conduct any initial performance test or other initial compliance demonstration according to Tables 4 and 5 to this subpart that apply to you within 180 days after the compliance date that is specified for your stationary RICE in §63.6595 and according to the provisions in §63.7(a)(2).

(b) An owner or operator is not required to conduct an initial performance test on a unit for which a performance test has been previously conducted, but the test must meet all of the conditions described in paragraphs (b)(1) through (4) of this section.

(1) The test must have been conducted using the same methods specified in this subpart, and these methods must have been followed correctly.

(2) The test must not be older than 2 years.

(3) The test must be reviewed and accepted by the Administrator.

(4) Either no process or equipment changes must have been made since the test was performed, or the owner or operator must be able to demonstrate that the results of the performance test, with or without adjustments, reliably demonstrate compliance despite process or equipment changes.

[75 FR 9676, Mar. 3, 2010]

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§63.6615 When must I conduct subsequent performance tests?

If you must comply with the emission limitations and operating limitations, you must conduct subsequent performance tests as specified in Table 3 of this subpart.

\$63.6620 What performance tests and other procedures must 1 use?

(a) You must conduct each performance test in Tables 3 and 4 of this subpart that applies to you.

(b) Each performance test must be conducted according to the requirements that this subpart specifies in Table 4 to this subpart. If you own or operate a non-operational stationary RICE that is subject to performance testing, you do not need to start up the engine solely to conduct the performance test. Owners and operators of a non-operational engine can conduct the performance test when the engine is started up again.

(c) [Reserved]

(d) You must conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.

(e)(1) You must use Equation 1 of this section to determine compliance with the percent reduction requirement:

$$\frac{C_i - C_o}{C_i} \times 100 = R \qquad (Eq. 1)$$

Where:

 C_i = concentration of CO or formaldehyde at the control device inlet,

 $C_o =$ concentration of CO or formaldehyde at the control device outlet, and

R = percent reduction of CO or formaldehyde emissions.

(2) You must normalize the carbon monoxide (CO) or formaldehyde concentrations at the inlet and outlet of the control device to a dry basis and to 15 percent oxygen, or an equivalent percent carbon dioxide (CO₂). If pollutant concentrations are to be corrected to 15 percent oxygen and CO₂ concentration is measured in lieu of oxygen concentration measurement, a CO₂ correction factor is needed. Calculate the CO₂ correction factor as described in paragraphs (e)(2)(i) through (iii) of this section.

(i) Calculate the fuel-specific F_{o} value for the fuel burned during the test using values obtained from Method 19, section 5.2, and the following equation:

$$F_{o} = \frac{0.209 \ F_{d}}{F_{c}}$$
 (Eq. 2)

Where:

- F_{o} = Fuel factor based on the ratio of oxygen volume to the ultimate CO₂ volume produced by the fuel at zero percent excess air.
- 0.209 = Fraction of air that is oxygen, percent/100.
- F_d = Ratio of the volume of dry effluent gas to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶ Btu).
- F_e = Ratio of the volume of CO₂ produced to the gross calorific value of the fuel from Method 19, dsm³/J (dscf/10⁶ Btu).

(ii) Calculate the CO_2 correction factor for correcting measurement data to 15 percent oxygen, as follows:

$$X_{co_2} = \frac{5.9}{F_c}$$
 (Eq. 3)

Where:

 $X_{co2} = CO_2$ correction factor, percent. 5.9 = 20.9 percent $O_2 - 15$ percent O_2 , the defined O_2 correction value, percent.

(iii) Calculate the NO_X and SO₂ gas concentrations adjusted to 15 percent O_2 using CO₂ as follows:

$$C_{adj} = C_d \frac{X_{co_2}}{\% CO_2} \qquad (Eq. 4)$$

Where:

%CO₂ = Measured CO₂ concentration measured, dry basis, percent.

(f) If you comply with the emission limitation to reduce CO and you are not using an oxidation catalyst, if you comply with the emission limitation to reduce formaldehyde and you are not using NSCR, or if you comply with the emission limitation to limit the concentration of formaldehyde in the stationary RICE exhaust and you are not using an oxidation catalyst or NSCR, you must petition the Administrator for operating limitations to be established during the initial performance test and continuously monitored thereafter; or for approval of no operating limitations. You must not conduct the initial performance test until after the

petition has been approved by the Ad-

ministrator. (g) If you petition the Administrator for approval of operating limitations, your petition must include the information described in paragraphs (g)(1) through (5) of this section.

(1) Identification of the specific parameters you propose to use as operating limitations;

(2) A discussion of the relationship between these parameters and HAP emissions, identifying how HAP emissions change with changes in these parameters, and how limitations on these parameters will serve to limit HAP emissions;

(3) A discussion of how you will establish the upper and/or lower values for these parameters which will establish the limits on these parameters in the operating limitations;

(4) A discussion identifying the methods you will use to measure and the instruments you will use to monitor these parameters, as well as the relative accuracy and precision of these methods and instruments; and

(5) A discussion identifying the frequency and methods for recalibrating the instruments you will use for monitoring these parameters.

(h) If you petition the Administrator for approval of no operating limitations, your petition must include the information described in paragraphs (h)(1) through (7) of this section.

(1) Identification of the parameters associated with operation of the stationary RICE and any emission control device which could change intentionally (e.g., operator adjustment, automatic controller adjustment, etc.) or unintentionally (e.g., wear and tear, error, etc.) on a routine basis or over time;

(2) A discussion of the relationship, if any, between changes in the parameters and changes in HAP emissions;

(3) For the parameters which could change in such a way as to increase HAP emissions, a discussion of whether establishing limitations on the parameters would serve to limit HAP emissions:

(4) For the parameters which could change in such a way as to increase HAP emissions, a discussion of how you could establish upper and/or lower

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values for the parameters which would establish limits on the parameters in operating limitations;

(5) For the parameters, a discussion identifying the methods you could use to measure them and the instruments you could use to monitor them, as well as the relative accuracy and precision of the methods and instruments;

(6) For the parameters, a discussion identifying the frequency and methods for recalibrating the instruments you could use to monitor them; and

(7) A discussion of why, from your point of view, it is infeasible or unreasonable to adopt the parameters as operating limitations.

(i) The engine percent load during a performance test must be determined by documenting the calculations, assumptions, and measurement devices used to measure or estimate the percent load in a specific application. A written report of the average percent load determination must be included in the notification of compliance status. The following information must be included in the written report: the engine model number, the engine manufacturer, the year of purchase, the manufacturer's site-rated brake horsepower, the ambient temperature, pressure, and humidity during the performance test, and all assumptions that were made to estimate or calculate percent load during the performance test must be clearly explained. If measurement devices such as flow meters, kilowatt meters, beta analyzers, stain gauges, etc. are used, the model number of the measurement device, and an estimate of its accurate in percentage of true value must be provided.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9676, Mar. 3, 2010]

§ 63.6625 What are my monitoring, installation, collection, operation, and maintenance requirements?

(a) If you elect to install a CEMS as specified in Table 5 of this subpart, you must install, operate, and maintain a CEMS to monitor CO and either oxygen or CO_2 at both the inlet and the outlet of the control device according to the requirements in paragraphs (a)(1) through (4) of this section.

(1) Each CEMS must be installed, operated, and maintained according to

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the applicable performance specifications of 40 CFR part 60, appendix B.

(2) You must conduct an initial performance evaluation and an annual relative accuracy test audit (RATA) of each CEMS according to the requirements in §63.8 and according to the applicable performance specifications of 40 CFR part 60, appendix B as well as daily and periodic data quality checks in accordance with 40 CFR part 60, appendix F, procedure 1.

(3) As specified in §63.8(c)(4)(ii), each CEMS must complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period. You must have at least two data points, with each representing a different 15-minute period, to have a valid hour of data.

(4) The CEMS data must be reduced as specified in $\S63.8(g)(2)$ and recorded in parts per million or parts per billion (as appropriate for the applicable limitation) at 15 percent oxygen or the equivalent CO₂ concentration.

(b) If you are required to install a continuous parameter monitoring system (CPMS) as specified in Table 5 of this subpart, you must install, operate, and maintain each CPMS according to the requirements in §63.8.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must monitor and record your fuel usage daily with separate fuel meters to measure the volumetric flow rate of each fuel. In addition, you must operate your stationary RICE in a manner which reasonably minimizes HAP emissions.

(d) If you are operating a new or reconstructed emergency 4SLB stationary RICE with a site rating of greater than or equal to 250 and less than or equal to 500 brake HP located at a major source of HAP emissions, you must install a non-resettable hour meter prior to the startup of the engine.

(e) If you own or operate an existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions, an existing stationary emergency RICE, or an existing stationary RICE located at

an area source of HAP emissions not subject to any numerical emission standards shown in Table 2d to this subpart, you must operate and maintain the stationary RICE and aftertreatment control device (if any) according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions or an existing emergency stationary RICE located at an area source of HAP emissions, you must install a non-resettable hour meter if one is not already installed.

(g) If you own or operate an existing non-emergency CI engine greater than or equal to 300 HP that is not equipped with a closed crankcase ventilation system, you must comply with either paragraph (g)(1) or paragraph (g)(2) of this section. Owners and operators must follow the manufacturer's specified maintenance requirements for operating and maintaining the open or closed crankcase ventilation systems and replacing the crankcase filters, or can request the Administrator to approve different maintenance requirements that are as protective as manufacturer requirements. Existing CI engines located at area sources in areas of Alaska not accessible by the FAHS do not have to meet the requirements of paragraph (g) in this section.

(1) Install a closed crankcase ventilation system that prevents crankcase emissions from being emitted to the atmosphere, or

(2) Install an open crankcase filtration emission control system that reduces emissions from the crankcase by filtering the exhaust stream to remove oil mist, particulates, and metals.

(h) If you operate a new or existing stationary engine, you must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after

which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

(i) If you own or operate a stationary engine that is subject to the work. operation or management practices in items 1, 2, or 4 of Table 2c to this subpart or in items 1 or 4 of Table 2d to this subpart, you have the option of utilizing an oil analysis program in order to extend the specified oil change requirement in Tables 2c and 2d to this subpart. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d to this subpart. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil before continuing to use the engine. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

[69 FR 33506, June 15, 2004, as amended at 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010]

§63.6630 How do I demonstrate initial compliance with the emission limitations and operating limitations?

(a) You must demonstrate initial compliance with each emission and operating limitation that applies to you according to Table 5 of this subpart.

(b) During the initial performance test, you must establish each operating limitation in Tables 1b and 2b of this subpart that applies to you.

(c) You must submit the Notification of Compliance Status containing the

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results of the initial compliance demonstration according to the requirements in \S 63.6645.

CONTINUOUS COMPLIANCE REQUIREMENTS

\$63.6635 How do I monitor and collect data to demonstrate continuous compliance?

(a) If you must comply with emission and operating limitations, you must monitor and collect data according to this section.

(b) Except for monitor malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), you must monitor continuously at all times that the stationary RICE is operating.

(c) You may not use data recorded during monitoring malfunctions, associated repairs, and required quality assurance or control activities in data averages and calculations used to report emission or operating levels. You must, however, use all the valid data collected during all other periods.

\$63.6640 How do I demonstrate continuous compliance with the emission limitations and operating limitations?

(a) You must demonstrate continuous compliance with each emission limitation and operating limitation in Tables 1a and 1b, Tables 2a and 2b, Table 2c, and Table 2d to this subpart that apply to you according to methods specified in Table 6 to this subpart.

(b) You must report each instance in which you did not meet each emission limitation or operating limitation in Tables 1a and 1b. Tables 2a and 2b. Table 2c, and Table 2d to this subpart that apply to you. These instances are deviations from the emission and operating limitations in this subpart. These deviations must be reported according to the requirements in §63.6650. If you change your catalyst, you must reestablish the values of the operating parameters measured during the initial performance test. When you reestablish the values of your operating parameters, you must also conduct a performance test to demonstrate that you are meeting the required emission lim-

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itation applicable to your stationary RICE.

(c) [Reserved]

(d) For new, reconstructed, and rebuilt stationary RICE, deviations from the emission or operating limitations that occur during the first 200 hours of operation from engine startup (engine burn-in period) are not violations. Rebuilt stationary RICE means a stationary RICE that has been rebuilt as that term is defined in 40 CFR 94.11(a).

(e) You must also report each instance in which you did not meet the requirements in Table 8 to this subpart that apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart: An existing 2SLB stationary RICE, an existing 4SLB stationary RICE, an existing emergency stationary RICE, an existing limited use stationary RICE, or an existing stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in Table 8 to this subpart, except for the initial notification requirements: a new or reconstructed stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new or reconstructed emergency stationary RICE, or a new or reconstructed limited use stationary RICE.

(f) If you own or operate an existing emergency stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions, a new emergency stationary RICE with a site rating of more than

500 brake HP located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions, you must operate the engine according to the conditions described in paragraphs (f)(1) through (4) of this section.

(1) For owners and operators of emergency engines, any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

(2) There is no time limit on the use of emergency stationary RICE in emergency situations.

(3) You may operate your emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(4) You may operate your emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout,

such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph (f)(4). as long as the power provided by the financial arrangement is limited to emergency power.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3606, Jan. 18, 2008; 75 FR 9676, Mar. 3, 2010]

NOTIFICATIONS, REPORTS, AND RECORDS

\$63.6645 What notifications must I submit and when?

(a) You must submit all of the notifications in §§ 63.7(b) and (c), 63.8(e), (f)(4) and (f)(6), 63.9(b) through (e), and (g) and (h) that apply to you by the dates specified if you own or operate any of the following:

(1) An existing stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions.

(2) An existing stationary CI RICE located at an area source of HAP emissions.

(3) A stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions.

(4) A new or reconstructed 4SLB stationary RICE with a site rating of greater than or equal to 250 HP located at a major source of HAP emissions.

(5) This requirement does not apply if you own or operate an existing stationary CI RICE less than 100 HP, an existing stationary emergency CI RICE, or an existing stationary CI RICE that is not subject to any numerical emission standards.

(b) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of more than 500 brake HP

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located at a major source of HAP emissions before the effective date of this subpart, you must submit an Initial Notification not later than December 13, 2004.

(c) If you start up your new or reconstructed stationary RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions on or after August 16, 2004, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(d) As specified in §63.9(b)(2), if you start up your stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions before the effective date of this subpart and you are required to submit an initial notification, you must submit an Initial Notification not later than July 16, 2008.

(e) If you start up your new or reconstructed stationary RICE with a site rating of equal to or less than 500 brake HP located at a major source of HAP emissions on or after March 18, 2008 and you are required to submit an initial notification, you must submit an Initial Notification not later than 120 days after you become subject to this subpart.

(f) If you are required to submit an Initial Notification but are otherwise not affected by the requirements of this subpart, in accordance with ξ 63.6590(b), your notification should include the information in ξ 63.9(b)(2)(i) through (v), and a statement that your stationary RICE has no additional requirements and explain the basis of the exclusion (for example, that it operates exclusively as an emergency stationary RICE if it has a site rating of more than 500 brake HP located at a major source of HAP emissions).

(g) If you are required to conduct a performance test, you must submit a Notification of Intent to conduct a performance test at least 60 days before the performance test is scheduled to begin as required in $\S63.7(b)(1)$.

(h) If you are required to conduct a performance test or other initial compliance demonstration as specified in Tables 4 and 5 to this subpart, you must submit a Notification of Compliance Status according to $\S63.9(h)(2)(ii)$.

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(1) For each initial compliance demonstration required in Table 5 to this subpart that does not include a performance test, you must submit the Notification of Compliance Status before the close of business on the 30th day following the completion of the initial compliance demonstration.

(2) For each initial compliance demonstration required in Table 5 to this subpart that includes a performance test conducted according to the requirements in Table 3 to this subpart, you must submit the Notification of Compliance Status, including the performance test results, before the close of business on the 60th day following the completion of the performance test according to §63.10(d)(2).

[73 FR 3606, Jan. 18, 2008, as amended at 75 FR 9677, Mar. 3, 2010]

\$63.6650 What reports must I submit and when?

(a) You must submit each report in Table 7 of this subpart that applies to you.

(b) Unless the Administrator has approved a different schedule for submission of reports under 63.10(a), you must submit each report by the date in Table 7 of this subpart and according to the requirements in paragraphs (b)(1) through (b)(9) of this section.

(1) For semiannual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on June 30 or December 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for your source in §63.6595.

(2) For semiannual Compliance reports, the first Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date follows the end of the first calendar half after the compliance date that is specified for your affected source in §63.6595.

(3) For semiannual Compliance reports, each subsequent Compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31

(4) For semiannual Compliance reports, each subsequent Compliance report must be postmarked or delivered no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period.

(5) For each stationary RICE that is subject to permitting regulations pursuant to 40 CFR part 70 or 71, and if the permitting authority has established dates for submitting semiannual reports pursuant to 40 70.6(a)(3)(iii)(A) or 40 CFR CFR ports 71.6 (a)(3)(iii)(A), you may submit the first and subsequent Compliance reports according to the dates the permitting authority has established instead of according to the dates in paragraphs (b)(1) through (b)(4) of this section.

(6) For annual Compliance reports, the first Compliance report must cover the period beginning on the compliance date that is specified for your affected source in §63.6595 and ending on December 31.

(7) For annual Compliance reports, the first Compliance report must be postmarked or delivered no later than January 31 following the end of the first calendar year after the compliance date that is specified for your affected source in §63,6595.

(8) For annual Compliance reports, each subsequent Compliance report must cover the annual reporting period from January 1 through December 31.

(9) For annual Compliance reports. each subsequent Compliance report must be postmarked or delivered no later than January 31.

(c) The Compliance report must contain the information in paragraphs (c)(1) through (6) of this section.

(1) Company name and address.

(2) Statement by a responsible official, with that official's name, title. and signature, certifying the accuracy of the content of the report.

(3) Date of report and beginning and ending dates of the reporting period.

(4) If you had a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceed-

ed. The report must also include a description of actions taken by an owner or operator during a malfunction of an affected source to minimize emissions in accordance with §63.6605(b), including actions taken to correct a malfunction.

(5) If there are no deviations from any emission or operating limitations that apply to you, a statement that there were no deviations from the emission or operating limitations during the reporting period.

(6) If there were no periods during which the continuous monitoring system (CMS), including CEMS and CPMS, was out-of-control, as specified in §63.8(c)(7), a statement that there were no periods during which the CMS was out-of-control during the reporting period.

(d) For each deviation from an emission or operating limitation that occurs for a stationary RICE where you are not using a CMS to comply with the emission or operating limitations in this subpart, the Compliance report must contain the information in paragraphs (c)(1) through (4) of this section and the information in paragraphs (d)(1) and (2) of this section.

(1) The total operating time of the stationary RICE at which the deviation occurred during the reporting period.

(2) Information on the number, duration, and cause of deviations (including unknown cause, if applicable), as applicable, and the corrective action taken.

(e) For each deviation from an emission or operating limitation occurring for a stationary RICE where you are using a CMS to comply with the emission and operating limitations in this subpart, you must include information in paragraphs (c)(1) through (4) and (e)(1) through (12) of this section.

(1) The date and time that each malfunction started and stopped.

(2) The date, time, and duration that each CMS was inoperative, except for zero (low-level) and high-level checks.

(3) The date, time, and duration that each CMS was out-of-control, including the information in §63.8(c)(8).

(4) The date and time that each deviation started and stopped, and whether each deviation occurred during a period of malfunction or during another period.

(5) A summary of the total duration of the deviation during the reporting period, and the total duration as a percent of the total source operating time during that reporting period.

(6) A breakdown of the total duration of the deviations during the reporting period into those that are due to control equipment problems, process problems, other known causes, and other unknown causes.

(7) A summary of the total duration of CMS downtime during the reporting period, and the total duration of CMS downtime as a percent of the total operating time of the stationary RICE at which the CMS downtime occurred during that reporting period.

(8) An identification of each parameter and pollutant (CO or formaldehyde) that was monitored at the stationary RICE.

(9) A brief description of the stationary RICE.

(10) A brief description of the CMS.

(11) The date of the latest CMS certification or audit.

(12) A description of any changes in CMS, processes, or controls since the last reporting period.

(f) Each affected source that has obtained a title V operating permit pursuant to 40 CFR part 70 or 71 must report all deviations as defined in this subpart in the semiannual monitoring report required by 40 CFR 70.6 (a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A). If an affected source submits a Compliance report pursuant to Table 7 of this subpart along with, or as part of, the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A), and the Compliance report includes all required information concerning deviations from any emission or operating limitation in this subpart, submission of the Compliance report shall be deemed to satisfy any obligation to report the same deviations in the semiannual monitoring report. However, submission of a Compliance report shall not otherwise affect any obligation the affected source may have to report deviations from permit requirements to the permit authority.

(g) If you are operating as a new or reconstructed stationary RICE which fires landfill gas or digester gas equiva40 CFR Ch. I (7-1-10 Edition)

lent to 10 percent or more of the gross heat input on an annual basis, you must submit an annual report according to Table 7 of this subpart by the date specified unless the Administrator has approved a different schedule, according to the information described in paragraphs (b)(1) through (b)(5) of this section. You must report the data specified in (g)(1) through (g)(3) of this section.

(1) Fuel flow rate of each fuel and the heating values that were used in your calculations. You must also demonstrate that the percentage of heat input provided by landfill gas or digester gas is equivalent to 10 percent or more of the total fuel consumption on an annual basis.

(2) The operating limits provided in your federally enforceable permit, and any deviations from these limits.

(3) Any problems or errors suspected with the meters.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9677, Mar. 3, 2010]

§63.6655 What records must I keep?

(a) If you must comply with the emission and operating limitations, you must keep the records described in paragraphs (a)(1) through (a)(5), (b)(1) through (b)(3) and (c) of this section.

(1) A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that you submitted, according to the requirement in $\S63.10(b)(2)(xiv)$.

(2) Records of the occurrence and duration of each malfunction of operation (*i.e.*, process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in §63.10(b)(2)(viii).

(4) Records of all required maintenance performed on the air pollution control and monitoring equipment.

(5) Records of actions taken during periods of malfunction to minimize emissions in accordance with \$63.6605(b), including corrective actions to restore malfunctioning process and air pollution control and monitoring equipment to its normal or usual manner of operation.

(b) For each CEMS or CPMS, you must keep the records listed in paragraphs (b)(1) through (3) of this section.
(1) Records described in

§63.10(b)(2)(vi) through (xi).

(2) Previous (*i.e.*, superseded) versions of the performance evaluation plan as required in $\S63.8(d)(3)$.

(3) Requests for alternatives to the relative accuracy test for CEMS or CPMS as required in $\S63.8(f)(6)(1)$, if applicable.

(c) If you are operating a new or reconstructed stationary RICE which fires landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, you must keep the records of your daily fuel usage monitors.

(d) You must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies to you.

(e) You must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that you operated and maintained the stationary RICE and after-treatment control device (if any) according to your own maintenance plan if you own or operate any of the following stationary RICE;

(1) An existing stationary CI RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions.

(2) An existing stationary emergency CI RICE.

(3) An existing stationary CI RICE located at an area source of HAP emissions subject to management practices as shown in Table 2d to this subpart.

(f) If you own or operate any of the stationary RICE in paragraphs (f)(1) or (2) of this section, you must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency situation,

and the time the engine was operated as part of demand response.

(1) An existing emergency stationary CI RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions that does not meet the standards applicable to non-emergency engines.

(2) An existing emergency stationary CI RICE located at an area source of HAP emissions that does not meet the standards applicable to non-emergency engines.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

\$63.6660 In what form and how long must I keep my records?

(a) Your records must be in a form suitable and readily available for expeditious review according to §63.10(b)(1).

(b) As specified in §63.10(b)(1), you must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

(c) You must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record, according to $\S63.10(b)(1)$.

[69 FR 33506, June 15, 2004, as amended at 75 FR 9678, Mar. 3, 2010]

OTHER REQUIREMENTS AND INFORMATION

§63.6665 What parts of the General Provisions apply to me?

Table 8 to this subpart shows which parts of the General Provisions in §§63.1 through 63.15 apply to you. If you own or operate a new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake HP located at a major source of HAP emissions (except new or reconstructed 4SLB engines greater than or equal to 250 and less than or equal to 500 brake HP), a new or reconstructed stationary RICE located at an area source of HAP emissions, or any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with any of the requirements of the General Provisions specified in Table 8: An existing 2SLB stationary

RICE, an existing 4SLB stationary RICE, an existing stationary RICE that combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, an existing emergency stationary RICE, or an existing limited use stationary RICE. If you own or operate any of the following RICE with a site rating of more than 500 brake HP located at a major source of HAP emissions, you do not need to comply with the requirements in the General Provisions specified in Table 8 except for the initial notification requirements: A new stationary RICE that combusts landfill gas or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis, a new emergency stationary RICE, or a new limited use stationary RICE

[75 FR 9678, Mar. 3, 2010]

§63.6670 Who implements and enforces this subpart?

(a) This subpart is implemented and enforced by the U.S. EPA, or a delegated authority such as your State, local, or tribal agency. If the U.S. EPA Administrator has delegated authority to your State, local, or tribal agency, then that agency (as well as the U.S. EPA) has the authority to implement and enforce this subpart. You should contact your U.S. EPA Regional Office to find out whether this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator of the U.S. EPA and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are:

(1) Approval of alternatives to the non-opacity emission limitations and operating limitations in 63.6600 under 63.6(g).

(2) Approval of major alternatives to test methods under $\S63.7(e)(2)(ii)$ and (f) and as defined in $\S63.90$.

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(3) Approval of major alternatives to monitoring under 63.8(f) and as defined in 63.90.

(4) Approval of major alternatives to recordkeeping and reporting under § 63.10(f) and as defined in § 63.90.

(5) Approval of a performance test which was conducted prior to the effective date of the rule, as specified in $\S63.6610(b)$.

\$63.6675 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act (CAA); in 40 CFR 63.2, the General Provisions of this part; and in this section as follows:

Area source means any stationary source of HAP that is not a major source as defined in part 63.

Associated equipment as used in this subpart and as referred to in section 112(n)(4) of the CAA, means equipment associated with an oil or natural gas exploration or production well, and includes all equipment from the well bore to the point of custody transfer, except glycol dehydration units, storage vessels with potential for flash emissions, combustion turbines, and stationary RICE.

Black start engine means an engine whose only purpose is to start up a combustion turbine.

CAA means the Clean Air Act (42 U.S.C. 7401 *et seq.*, as amended by Public Law 101-549, 104 Stat. 2399).

Compression ignition means relating to a type of stationary internal combustion engine that is not a spark ignition engine.

Custody transfer means the transfer of hydrocarbon liquids or natural gas: After processing and/or treatment in the producing operations, or from storage vessels or automatic transfer facilities or other such equipment, including product loading racks, to pipelines or any other forms of transportation. For the purposes of this subpart, the point at which such liquids or natural gas enters a natural gas processing plant is a point of custody transfer

Deviation means any instance in which an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emission limitation or operating limitation;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emission limitation or operating limitation in this subpart during malfunction, regardless or whether or not such failure is permitted by this subpart.

(4) Fails to satisfy the general duty to minimize emissions established by §63.6(e)(1)(i).

Diesel engine means any stationary RICE in which a high boiling point liquid fuel injected into the combustion chamber ignites when the air charge has been compressed to a temperature sufficiently high for auto-ignition. This process is also known as compression ignition.

Diesel fuel means any liquid obtained from the distillation of petroleum with a boiling point of approximately 150 to 360 degrees Celsius. One commonly used form is fuel oil number 2. Diesel fuel also includes any non-distillate fuel with comparable physical and chemical properties (e.g. biodiesel) that is suitable for use in compression ignition engines.

Digester gas means any gaseous byproduct of wastewater treatment typically formed through the anaerobic decomposition of organic waste materials and composed principally of methane and CO_2 .

Dual-fuel engine means any stationary RICE in which a liquid fuel (typically diesel fuel) is used for compression ignition and gaseous fuel (typically natural gas) is used as the primary fuel.

Emergency stationary RICE means any stationary internal combustion engine whose operation is limited to emergency situations and required testing and maintenance. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power

source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc. Stationary CI ICE used for peak shaving are not considered emergency stationary ICE. Stationary CI ICE used to supply power to an electric grid or that supply nonemergency power as part of a financial arrangement with another entity are not considered to be emergency engines, except as permitted under §63.6640(f). Emergency stationary RICE with a site-rating of more than 500 brake HP located at a major source of HAP emissions that were installed prior to June 12, 2006, may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance. Emergency stationary RICE with a site-rating of more than 500 brake HP located at a major source of HAP emissions that were installed prior to June 12, 2006, may also operate an additional 50 hours per year in nonemergency situations. All other emergency stationary RICE must comply with the requirements specified in §63.6640(f).

Engine startup means the time from initial start until applied load and engine and associated equipment reaches steady state or normal operation. For stationary engine with catalytic controls, engine startup means the time from initial start until applied load and engine and associated equipment, including the catalyst, reaches steady state or normal operation.

Four-stroke engine means any type of engine which completes the power cycle in two crankshaft revolutions, with intake and compression strokes in the first revolution and power and exhaust strokes in the second revolution.

Gaseous fuel means a material used for combustion which is in the gaseous state at standard atmospheric temperature and pressure conditions.

Gasoline means any fuel sold in any State for use in motor vehicles and motor vehicle engines, or nonroad or stationary engines, and commonly or commercially known or sold as gasoline.

Glycol dehydration unit means a device in which a liquid glycol (including, but not limited to, ethylene glycol, diethylene glycol, or triethylene glycol) absorbent directly contacts a natural gas stream and absorbs water in a contact tower or absorption column (absorber). The glycol contacts and absorbs water vapor and other gas stream constituents from the natural gas and becomes "rich" glycol. This glycol is then regenerated in the glycol dehydration unit reboiler. The "lean" glycol is then recycled.

Hazardous air pollutants (HAP) means any air pollutants listed in or pursuant to section 112(b) of the CAA.

ISO standard day conditions means 288 degrees Kelvin (15 degrees Celsius), 60 percent relative humidity and 101.3 kilopascals pressure,

Landfill gas means a gaseous by-product of the land application of municipal refuse typically formed through the anaerobic decomposition of waste materials and composed principally of methane and CO_2 .

Lean burn engine means any twostroke or four-stroke spark ignited engine that does not meet the definition of a rich burn engine.

Limited use stationary RICE means any stationary RICE that operates less than 100 hours per year.

Liquefied petroleum gas means any liquefied hydrocarbon gas obtained as a by-product in petroleum refining of natural gas production.

Liquid fuel means any fuel in liquid form at standard temperature and pressure, including but not limited to diesel, residual/crude oil, kerosene/naphtha (jet fuel), and gasoline.

Major Source, as used in this subpart, shall have the same meaning as in §63.2, except that:

(1) Emissions from any oil or gas exploration or production well (with its associated equipment (as defined in this section)) and emissions from any pipeline compressor station or pump station shall not be aggregated with emissions from other similar units, to determine whether such emission points or stations are major sources, 40 CFR Ch. 1 (7-1-10 Edition)

even when emission points are in a contiguous area or under common control; (2) For oil and gas production facili-

ties, emissions from processes, operations, or equipment that are not part of the same oil and gas production facility, as defined in §63.1271 of subpart HHH of this part, shall not be aggregated;

(3) For production field facilities, only HAP emissions from glycol dehydration units, storage vessel with the potential for flash emissions, combustion turbines and reciprocating internal combustion engines shall be aggregated for a major source determination; and

(4) Emissions from processes, operations, and equipment that are not part of the same natural gas transmission and storage facility, as defined in 63.1271 of subpart HiH of this part, shall not be aggregated.

Malfunction means any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner which causes, or has the potential to cause, the emission limitations in an applicable standard to be exceeded. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.

Natural gas means a naturally occurring mixture of hydrocarbon and nonhydrocarbon gases found in geologic formations beneath the Earth's surface, of which the principal constituent is methane. Natural gas may be field or pipeline quality.

Non-selective catalytic reduction (NSCR) means an add-on catalytic nitrogen oxides (NO_X) control device for rich burn engines that, in a two-step reaction, promotes the conversion of excess oxygen, NO_X, CO, and volatile organic compounds (VOC) into CO_2 , nitrogen, and water.

Oil and gas production facility as used in this subpart means any grouping of equipment where hydrocarbon liquids are processed, upgraded (i.e., remove impurities or other constituents to meet contract specifications), or stored prior to the point of custody transfer; or where natural gas is processed, upgraded, or stored prior to entering the natural gas transmission and storage

source category. For purposes of a major source determination, facility (including a building, structure, or installation) means oil and natural gas production and processing equipment that is located within the boundaries of an individual surface site as defined in this section. Equipment that is part of a facility will typically be located within close proximity to other equipment located at the same facility. Pieces of production equipment or groupings of equipment located on different oil and gas leases, mineral fee tracts, lease tracts, subsurface or surface unit areas, surface fee tracts, surface lease tracts, or separate surface sites, whether or not connected by a road, waterway, power line or pipeline, shall not be considered part of the same facility. Examples of facilities in the oil and natural gas production source category include, but are not limited to, well sites, satellite tank batteries, central tank batteries, a compressor station that transports natural gas to a natural gas processing plant, and natural gas processing plants.

Oxidation catalyst means an add-on catalytic control device that controls CO and VOC by oxidation.

Peaking unit or engine means any standby engine intended for use during periods of high demand that are not emergencies.

Percent load means the fractional power of an engine compared to its maximum manufacturer's design capacity at engine site conditions. Percent load may range between 0 percent to above 100 percent.

Potential to emit means the maximum capacity of a stationary source to emit a pollutant under its physical and operational design. Any physical or operational limitation on the capacity of the stationary source to emit a pollutant, including air pollution control equipment and restrictions on hours of operation or on the type or amount of material combusted, stored, or processed, shall be treated as part of its design if the limitation or the effect it would have on emissions is federally enforceable. For oil and natural gas production facilities subject to subpart HH of this part, the potential to emit provisions in §63.760(a) may be used.

For natural gas transmission and storage facilities subject to subpart HHH of this part, the maximum annual facility gas throughput for storage facilities may be determined according to $\S63.1270(a)(1)$ and the maximum annual throughput for transmission facilities may be determined according to $\S63.1270(a)(2)$.

Production field facility means those oil and gas production facilities located prior to the point of custody transfer.

Production well means any hole drilled in the earth from which crude oil, condensate, or field natural gas is extracted.

Propane means a colorless gas derived from petroleum and natural gas, with the molecular structure C_1H_2 .

Residential/commercial/institutional emergency stationary RICE means an emergency stationary RICE used in residential establishments such as homes or residences, commercial establishments such as office buildings, hotels, or stores, or institutional establishments such as medical centers, research centers, and institutions of higher education.

Responsible official means responsible official as defined in 40 CFR 70.2.

Rich burn engine means any fourstroke spark ignited engine where the manufacturer's recommended operating air/fuel ratio divided by the stoichiometric air/fuel ratio at full load conditions is less than or equal to 1.1. Engines originally manufactured as rich burn engines, but modified prior to December 19, 2002 with passive emission control technology for NO_X (such as pre-combustion chambers) will be considered lean burn engines. Also, existing engines where there are no manufacturer's recommendations regarding air/fuel ratio will be considered a rich burn engine if the excess oxygen content of the exhaust at full load conditions is less than or equal to 2 percent.

Site-rated HP means the maximum manufacturer's design capacity at engine site conditions.

Spark ignition means relating to either: A gasoline-fueled engine; or any other type of engine a spark plug (or other sparking device) and with operating characteristics significantly

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similar to the theoretical Otto combustion cycle. Spark ignition engines usually use a throttle to regulate intake air flow to control power during normal operation. Dual-fuel engines in which a liquid fuel (typically diesel fuel) is used for CI and gaseous fuel (typically natural gas) is used as the primary fuel at an annual average ratio of less than 2 parts diesel fuel to 100 parts total fuel on an energy equivalent basis are spark ignition engines.

Stationary reciprocating internal combustion engine (RICE) means any reciprocating internal combustion engine which uses reciprocating motion to convert heat energy into mechanical work and which is not mobile. Stationary RICE differ from mobile RICE in that a stationary RICE is not a nonroad engine as defined at 40 CFR 1058.30, and is not used to propel a motor vehicle or a vehicle used solely for competition.

Stationary RICE test cell/stand means an engine test cell/stand, as defined in subpart PPPPP of this part, that tests stationary RICE.

Stoichiometric means the theoretical air-to-fuel ratio required for complete combustion.

Storage vessel with the potential for flash emissions means any storage ves40 CFR Ch. 1 (7-1-10 Edition)

sel that contains a hydrocarbon liquid with a stock tank gas-to-oil ratio equal to or greater than 0.31 cubic meters per liter and an American Petroleum Institute gravity equal to or greater than 40 degrees and an actual annual average hydrocarbon liquid throughput equal to or greater than 79,500 liters per day. Flash emissions occur when dissolved hydrocarbons in the fluid evolve from solution when the fluid pressure is reduced.

Subpart means 40 CFR part 63, subpart ZZZZ.

Surface site means any combination of one or more graded pad sites, gravel pad sites, foundations, platforms, or the immediate physical location upon which equipment is physically affixed.

Two-stroke engine means a type of engine which completes the power cycle in single crankshaft revolution by combining the intake and compression operations into one stroke and the power and exhaust operations into a second stroke. This system requires auxiliary scavenging and inherently runs lean of stoichiometric.

[69 FR 33506, June 15, 2004, as amended at 71 FR 20467, Apr. 20, 2006; 73 FR 3607, Jan. 18, 2008; 75 FR 9679, Mar. 3, 2010]

TABLE 12 TO SUBPART ZZZZ OF PART 63-EMISSION LIMITATIONS FOR EXISTING, NEW, AND RECONSTRUCTED SPARK IGNITION, 4SRB STATIONARY RICE >500 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS

As stated in §§ 63.6600 and 63.6640, you must comply with the following emission limitations for existing, new and reconstructed 4SRB stationary RICE at 100 percent load plus or minus 10 percent:

For each	You must meet the following emission limitation, except during periods of startup	During periods of startup you must
1. 4SRB stationary RICE	 Beduce formaldehyde emissions by 76 per- cent or more. If you commenced construction or reconstruction between December 19, 2002 and June 15, 2004, you may reduce formalde- hyde emissions by 75 percent or more until June 15, 2007 or. Limit the concentration of formaldehyde in the stationary RICE exhaust to 350 ppbvd or less at 15 percend 0₂. 	Minimize the engine's time spont at ide and min- imize the engine's startup time at startup to a period needed for appropriate and safe load- ing of the engine, not to exceed 30 minutes, after which time the non-startup emission limi- tations epply."

* Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for alternative work practices.

[75 FR 9679, Mar. 3, 2010]

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TABLE 15 TO SUBPART ZZZZ OF PART 63-OPERATING LIMITATIONS FOR EXISTING, NEW, AND RECONSTRUCTED SPARE IGNITION, 4SRB STATIONARY RICE >500 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS

[As stated in §§ 63,6600, 63,6630 and 63,6640, you must comply with the following operating emission limitations for existing, new and reconstructed 4SRB stationary RICE >500 HP located at a major source of HAP emissions]

For each	You must meet the following operating limitation	
 4SRB stationary RICE complying with the requirement to re- duce formal/dehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and using NSCR;. 	a. maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water at 100 percent load plus or minus 10 percent from the pressure drop across the catalyst measured during the initial perform- ance test; and	
4SRB stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE ex- haust to 350 ppbvd or less at 15 percent O ₂ and using NSCR. 2. 4SRB stationary RICE complying with the requirement to re- duce formaldehyde emissions by 76 percent or more (or by 75 percent or more, if applicable) and not using NSCR;	b. maintain the temperature of your stationary RICE exhaust so that the catalyst infel temperature is greater than or equal to 750 °F and less than or equal to 1250 °F. Comply with any operating limitations approved by the Admin- istrator.	
or		

[73 FR 3607, Jan. 18, 2008]

TABLE 2A TO SUBPART ZZZZ OF PART 63—EMISSION LIMITATIONS FOR NEW AND RE-CONSTRUCTED 2SLB AND COMPRESSION IGNITION STATIONARY RICE >500 HP AND NEW AND RECONSTRUCTED 4SLB STATIONARY RICE ≥250 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS

As stated in §§63.6600 and 63.6640, you must comply with the following emission limitations for new and reconstructed lean burn and new and reconstructed compression ignition stationary RICE at 100 percent load plus or minus 10 percent:

For each	You must meet the following emission limitation, except during periods of start- up	During periods of startup you must
1. 2SLB stationary RICE	e. Reduce CQ emissions by 58 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 12 permid or less at 15 percent Q ₂ . If you commenced construction or recon- struction between December 19, 2002 and June 15, 2004, you may limit con- centration of formaldehyde to 17 pprmid or less at 15 percent Q ₂ uniti June 15, 2007.	which time the non-startup emission
2. 4SLB stationary RICE	a. Reduce CO emissions by 93 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 14	
	ppmvd or less at 15 percent O ₂ .	
3. CI stationary RICE	 a. Reduce CO emissions by 70 percent or more; or b. Limit concentration of formaldehyde in the stationary RICE exhaust to 580 ppbvd or less at 15 percent O₂. 	

¹ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for atternative work practicas.

[75 FR 9680, Mar. 3, 2010]

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TABLE 2B TO SUBPART ZZZZ OF PART 63—OPERATING LIMITATIONS FOR NEW AND RE-CONSTRUCTED 2SLB AND COMPRESSION IGNITION STATIONARY RICE >500 HP LO-CATED AT A MAJOR SOURCE OF HAP EMISSIONS, EXISTING NON-EMERGENCY COM-PRESSION IGNITION STATIONARY RICE >500 HP, AND NEW AND RECONSTRUCTED 4SLB BURN STATIONARY RICE ≥250 HP LOCATED AT A MAJOR SOURCE OF HAP EMISSIONS

As stated in §§63.6600, 63.6601, 63.6630, and 63.6640, you must comply with the following operating limitations for new and reconstructed lean burn and existing, new and reconstructed compression ignition stationary RICE:

For each	You must meet the following operating limitation
 2SLB and 4SLB stationary RiCE and CI stationary RICE complying with the requirement to reduce CO emissions and using an oxidation catalyst or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and using an oxidation catalyst. 	a. Maintain your catalyst so that the pressure drop across the catalyst does not change by more than 2 inches of water a 100 percent load plus or minus 10 percent from the pressure drop across the catalyst that was measured during the initial performance test; and
	b. Maintain the temperature of your stationary RICE exhaus so that the catalyst inlet temperature is greater than or equa to 450 °F and less than or equal to 1350 °F. ¹
2. SSLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to reduce CO emissions and not using an oxidation catalyst; or 2SLB and 4SLB stationary RICE and CI stationary RICE complying with the requirement to limit the concentration of formaldehyde in the stationary RICE exhaust and not using an oxidation catalyst.	Comply with any operating limitations approved by the Admin- istrator.

¹ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.8(g) for a different temperature range.

[75 FR 9680, Mar. 3, 2010]

TABLE 2C TO SUBPART ZZZZ OF PART 63-REQUIREMENTS FOR EXISTING COMPRES-SION IGNITION STATIONARY RICE LOCATED AT MAJOR SOURCES OF HAP EMIS-SIONS

As stated in §§ 63.6600 and 63.6640, you must comply with the following requirements for existing compression ignition stationary RICE:

For each	You must meet the following require- ment, except during periods of startup	During periods of startup you must
1. Emergency CI and black start CI. ¹	 a. Change oil and filter every 500 hours of operation or annually, whichever comes first;² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, which- ever comes first, and replace as nec- essay; 3 	Minimize the engine's time spent at Idle and minimize the engine's startup time at startup to a period needed for ap- propriate and safe loading of the en- gine, not to exceed 30 minutes, after which time the non-startup emission limitations apply. ³
 Non-Emergency, non-black start CI < 100 HP. 	 a. Change oil and filter every 1,000 hours of operation or annually, whichever comes fist;² b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; c. Inspect all hoses and belts every 500 hours of operation or annually, whichever server proves first; and replace as nec- 	
3. Non-Emergency, non-black start CI RICE 1005HP5300 HP.	essary. ³ Limit concentration of CO in the sta- tionary RICE exhaust to 230 ppmvd or less at 15 percent O ₂ .	
 Non-Emergency, non-black start Cł 300<hp≤500.< li=""> </hp≤500.<>	a. Limit concentration of CO in the sta- tionary RICE exhaust to 49 ppmvd or less at 15 percent O ₃ ; or b. Reduce CO emissions by 70 percent or more.	

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For each	You must meet the following require- ment, except during periods of startup	During periods of startup you must
5. Non-Emergency, non-black st Cl>500 HP.	a. Limit concentration of CO in the sta- tionary RICE exhaust to 23 ppmvd or less at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more.	

1 If an emergency angine is operating during an emergency and it is not possible to shut down the engine in order to perform the work practice requirements on the schedule required in Table 2c of this subpert, or if performing the work practice can be delayed unlit the emergency is over or the unacceptable risk under Federal, State, or local taw, the work practice should be performed as soon as practicable after the emergency is over or the unacceptable risk under Federal, state, or local taw has abated. The work practice should be performed as soon as practicable after the emergency is over a should be mergency to so a subter the work practice on the rederal, state, or local taw has abated. The work practice should be performed as soon as practicable after the emergency to should be under which the risk was deemed unacceptable.
² Sources must report any failure to perform the work practice on the schedule required and the Federal, State, or local taw has abated. The vert which the risk was deemed unacceptable.
² Sources have the option to ublize an oil analysis program as described in §63.6625(i) in order to extend the specified oil change requirement in Table 2c of this subpart.
³ Sources can petition the Administrator pursuant to the requirements of 40 CFR 63.6(g) for atternative work practices.

[75 FR 9681, Mar. 3, 2010]

TABLE 2D TO SUBPART ZZZZ OF PART 63-REQUIREMENTS FOR EXISTING COMPRES-SION IGNITION STATIONARY RICE LOCATED AT AREA SOURCES OF HAP EMIS-SIONS

As stated in §§63.6600 and 63.6640, you must comply with the following emission and oper-ating limitations for existing compression ignition stationary RICE:

For each	You must meet the following require- ment, except during periods of startup	During periods of startup you must
1. Non-Emergency, non-black start CI ≤ 300 HP.	a. Change oil and filter every 1,000 hours of operation or annually, which- ever comes first; ¹	
	 Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; 	Minimize the engine's time spent at idle and minimize the engine's startup time at startup to a period needed for ap- propriate and safe loading of the en- gine, not to exceed 30 minutes, after which time the non-startup emission limitations apply.
	c. Inspect all hoses and belts every 500 hours of operation or annually, which- ever comes first, and replace as nec- essary.	
 Non-Emergency, non-black start Cl 300<hp<500.< li=""> </hp<500.<>	 a. Limit concentration of CO in the stationary RICE exhaust to 49 ppmvd at 15 percent O₂; or b. Reduce CO emissions by 70 percent or more. 	
3. Non-Emergency, non-black start CI > 500 HP.	a. Limit concentration of CO in the sta- tionary RICE exhaust to 23 ppmvd at 15 percent O ₂ ; or b. Reduce CO emissions by 70 percent or more.	
4. Emergency CI and black start CI. ²	a. Change oil and filter every 500 hours of operation or annualty, whichever comes first;1	
	 Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first and 	
	c. Inspect all hoses and belts every 500 hours of operation or annually, which- ever comes first, and replace as nec- essary.	

¹ Sources have the option to utilize an oil analysis program as described in §63.655(i) in order to extend the specified oil change requirement in Table 2d of this subpart.
² If an emergency engine is operating during an emergency and it is not possible to shut down the engine in order to perform the management practice on the required schedule required in Table 2d of this subpart, or if performing the management practice can be delayed until the emergency is over or the unacceptable risk under Federal, State, or local taw, the management practice should be performed as soon as practicable effer the emergency has ended or the unacceptable risk under Federal, State, or local taw has abated. The management practice should be performed as soon as practicable effer the emergency has ended or the unacceptable risk under Federal. State, or local taw has abated under Federal. State or local taw has abated sources must report any failure to perform the management practice on the schedule required and the Federal, State or local law under which the risk was deerned unacceptable.

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[75 FR 9681, Mar. 3, 2010]

TABLE 3 TO SUBPART ZZZZ OF PART 63-SUBSEQUENT PERFORMANCE TESTS

As stated in §§ 63.6615 and 63.6620, you must comply with the following subsequent performance test requirements:

For each	Complying with the requirement to	You must
 2SLB and 4SLB stationary RICE with a brake horsepower >500 located at major sources and new or recon- structed CI stationery RICE with a brake horsepower >500 located at major sources. 	Reduce CO emissions and not using a CEMS.	Conduct subsequent performance tests semiannually.1
 4SRB stationary RICE with a brake horsepower ≥5,000 located at major sources. 	Reduce formaldehyde emissions	Conduct subsequent performance tests semiannually.1
 Stationary RICE with a brake horse- power >500 located at major sources. 	Limit the concentration of formaldehyde in the stationary RICE exhaust.	Conduct subsequent performance tests semiannually.1
 Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are not limited use stationary RICE. 	Limit or reduce CO or formaldehyde	Conduct subsequent performance tests every 8,760 hrs or 3 years, whichever comes first.
 Existing non-emergency, non-black start CI stationary RICE with a brake horsepower >500 that are limited use stationary RICE. 		Conduct subsequent performance tests every 8,760 hrs or 5 years, whichever comes first.

¹After you have demonstrated compliance for two consecutive tests, you may reduce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formaldehyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[75 FR 9682, Mar. 3, 2010]

TABLE 4 TO SUBPART ZZZZ OF PART 63-REQUIREMENTS FOR PERFORMANCE TESTS

As stated in §§63.6610, 63.6611, 63.6612, 63.6620, and 63.6640, you must comply with the following requirements for performance tests for stationary RICE for existing sources:

For each	Complying with the requirement to	You must	Using	According to the following requirements
1. 2SLB, 4SLB, and CI stationary RICE.	a. Reduce CO emissions.	i. Measure the O ₇ at the iniet and outlet of the con- trol device; and	(1) Portable CO and O ₂ ana- lyzer	(a) Using ASTM D6522-00 (2005) * (incorporated by reference, see § 63.14). Measurements to determine O_2 must be made at the same time as the measurements for CO concentration.
		ii. Measure the CO at the intet and the outlet of the control device.	(1) Portable CO and O ₂ ana- lyzer	(a) Using ASTM D6522-00 (2005) +b (incorporated by reference, see § 63.14) or Method 10 of 40 CFR ap- pendix A. The CO con- centration must be at 15 percent O ₂ , dry basis.
2. 4SRB stationary RICE.	a. Reduce form- aldehyde emis- sions.	i, Salect the sam- pling port loca- tion and the number of tra- verse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A § 63.7(d)(1)(i).	(a) Sampling sites must be located at the inlet and out let of the control device.
		ii. Measure O ₂ at the inlet and out- let of the control device; and	(1) Method 3 or 3A or 3B of 40 CFR part 60, appendix A, or ASTM Method D6522-00 (2005).	(a) Measurements to deter- mine O ₂ concentration must be made at the same time as the measurements for formatdehyde con- centration.
		iii, Measure mois- ture content at the inlet and out- let of the control device; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03.	(a) Measurements to deter- mine moisture content must be made at the same time and location as the measurements for form- aldehyde concentration.

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For each	Complying with the requirement to	You must	Using	According to the following requirements
		iv. Measure form- aldehyde at the inlet and the out- let of the control device.	(1) Method 320 of 40 CFR part 63, appendix A; or ASTM D6348-03°, pro- vided in ASTM D6348-03 Annex AS (Analyte Spiking Technique), the percent R must be greater than or equal to 70 and less than or equal to 130	(a) Formaldehyde concentra- tion must be at 15 percent O ₂ , dry besis. Results of this test consist of the av- erage of the three 1-hour or longer runs.
3. Stationary RICE	a. Limit the con- centration of formaldehyde or CO in the sta- tionary RICE ex- haust.	i. Select the sam- pling port loca- tion and the number of tra- verse points; and	(1) Method 1 or 1A of 40 CFR part 60, appendix A §63.7(d)(1)(i).	(a) If using a control device, the sampling site must be located at the outlet of the control device.
		ii. Determine the O ₂ concentration of the stationary RICE exhaust at the sampling port location; and	(1) Method 3 or 3A or 3B of 40 CFR part 50, appendix A, or ASTM Method D6522-00 (2005).	(a) Measuraments to deter- mine O ₂ concentration must be made at the same time and location as the measurements for form- aldehyde concentration.
		iii, Measure mois- ture content of the stationary RICE exhaust at the sampling port location; and	(1) Method 4 of 40 CFR part 60, appendix A, or Test Method 320 of 40 CFR part 63, appendix A, or ASTM D 6348–03.	(a) Measurements to deter- mine moisture content must be made at the same time and location as the measurements for form- aldehyde concentration.
		iv. Measure form- aldehyde at the exhaust of the stationary RICE; or	(1) Method 320 of 40 CFR part 63, appendix A; or ASTM D6348-03°, pro- vided in ASTM D6348-03 Annex A5 (Analyte Spiking Technique), the percent R must be graater than or equal to 70 and less than or equal to 70 and less than	(a) Formaldehyde concentra- tion must be at 15 percent O ₂ , dry basis. Results of this test consist of the av- arage of the three 1-hour or longer runs.
		v. Measure CO at the exhaust of the stationary RICE.	(1) Method 10 of 40 CFR part 60, appendix A, ASTM Method D6522-00 (2005)*, Method 320 of 40 CFR part 63, appendix A, or ASTM D6348-03.	basis. Results of this test

You may also use Methods 3A and 10 as options to ASTM-D6522-00 (2005), You may obtain a copy of ASTM-D6522-00 (2005), You may obtain a copy of ASTM-D6522-00 (2005) may be used to test bolh CI and Si stationary RICE.
 You may also use Method 32 of 40 CFR part 63, appendix A, or ASTM D6348-03.
 You may obtain a copy of ASTM-D6348-03 from at least one of the following addresses: American Society for Testing addresses: American Society for Testing and Materials, 100 Barr Habor Dive, West Conshohocken, PA 19428-2959, or University Microfilms International; 300 North Zeeb Road, Ann Arbor, MI 48106.

[75 FR 9682, Mar. 3, 2010]

TABLE 5 TO SUBPART ZZZZ OF PART 63-INITIAL COMPLIANCE WITH EMISSION LIMITATIONS AND OPERATING LIMITATIONS

As stated in §§ 63.6612, 63.6625 and 63.6630, you must initially comply with the emission and operating limitations as required by the following:

For each	Complying with the requirement to	You have demonstrated initial compli- ance if
 2SLB and 4SLB stationary RICE >500 HP located at a major source and new or reconstructed CI stationary RICE >500 HP located at a major source. 	 Reduce CO emissions and using oxi- dation catalyst, and using a CPMS. 	 The average reduction of emissions of CO determined from the initial par- formance test achieves the required CO percent reduction; and You have instatled a CPMS to con- tinuously monitor catalyst inite term- perature according to the require- ments in § 63.6625(b); and

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For each	Complying with the requirement to	You have demonstrated initial compli- ance if
2. 2SLB and 4SLB stationary RICE >500 HP located at a major source and new or reconstructed CI stationary RICE >500 HP located at a major source.	a. Reduce CO emissions and not using oxidation catalyst.	iii. You have recorded the catalyst pressure drop and catalyst inlet temperature during the initial performance test. J. The average reduction of emissions of CO determined from the initial performance test achieves the required CO percent reduction; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (ii).
3. 2SLB and 4SLB stationary RICE >500 HP located at a major source and new or reconstructed CI stationary RICE >500 HP located at a major source.	a. Reduce CO emissions, and using a CEMS.	any) according to the requirements in §63.6625(b); and iii. You have recorded the approved op erating parameters (if any) during the initial performance test. I. You have installed a CEMS to continu ously monitor CO and either O ₂ o CO ₂ at both the initet and outled of the oxidation catalyst according to the re
		quirements in §63.6625(a); and ii. You have conducted a performance evaluation of your CEMS using PS i and 4A of 40 CFR part 60, appendit B; and
		iii. The average reduction of CO call culated using §63,6520 equals or ex- ceeds the required percent reduction The initial test comprises the first 4 hour period after successful validation of the CEMS. Compliance is based or the average percent reduction achieved during the 4-hour period.
 4SRB stationary RICE >500 HP lo- cated at a major source. 	 Reduce formaldehyde emissions and using NSCR. 	i. The everage reduction of emissions of formaldehyde determined from the in tisk performance test is equal to or greater than the required formald- hyde percent reduction; and ii. You have installed a CPMS to con- tinuously monitor catalyst inlet ten perature according to the requirin- ments in §63.6525(b); and
5, 4SRB stationary RICE >500 HP lo- caled at a major source.	a. Reduce formaldahyde emissions and not using NSCR.	iii. You have recorded the catalyst pre- sure drop and catalyst intel temper- ture during the initial performance test. The average reduction of emissions formaktehyde determined from the is tial performance test is equal to graater than the required formald
		hyde percent reduction; and ii. You have installed a CPMS to co tinuously monitor operating parar eters approved by the Administrator any) according to the requirements §63,6625(b); and iii. You have recorded the approved o erating parameters (if any) during the erating parameters (if any) during the
 Stationery RICE >500 HP located at a major source. 	 a. Limit the concentration of formalde hyde in the stationary RICE exhaus and using oxidation catalyst or NSCR. 	initial performance test. i. The average formaldehyde concentration, corrected to 15 percent O2, c
		iii. You have recorded the catalyst pre sure drop and catalyst inlet temper ture during the initial performance te

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For each	Complying with the requirement to	You have demonstrated initial compli- ance if
 Stationary RICE >500 HP located at a major source. 	a. Limit the concentration of formalde- hyde in the stationary RICE exhaust and not using exidation catalyst or NSCR.	i. The average formaldehyde concentration, corrected to 15 percent O ₂ , dry basis, from the three test runs is less than or equal to the formaldehyde emission limitation; and ii. You have installed a CPMS to continuously monitor operating parameters approved by the Administrator (if any) according to the requirements in §63.662(b); and iii. You have recorded the approved operating parameters (if any) during the initial performance test.
 Existing stationary non-emergency RICE ≥100 HP located at a major source, existing non-emergency CI sta- tionary RICE >500 HP, and existing stationary non-emergency RICE ≥100 HP located at an area source. Existing stationary non-emergency RICE ≥100 HP located at a major source, existing non-emergency CI sta- tionary RICE >500 HP, and existing stationary non-emergency RICE ≥100 HP located at an area source. 	a. Limit the concentration of formalde- hyde or CO in the stationary RiCE ex- haust.	 The average reduction of emissions of CC or formaldehyde, as applicable de lemined from the initial performance test is equal to or greater than the re quired CO or formaldehyde, as appli- cable, percent reduction. The average formaldehyde or CO con centration, as applicable, corrected th 15 percent Q, dry basis, from the three test runs is less than or equal to the formaldehyde or CO emission timi tation, as applicable.

[75 FR 9684, Mar. 3, 2010]

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TABLE 6 TO SUBPART ZZZZ OF PART 63—CONTINUOUS COMPLIANCE WITH EMISSION LIMITATIONS AND OPERATING LIMITATIONS

As stated in §63.6640, you must continuously comply with the emissions and operating limitations as required by the following:

For each	Complying with the requirement to	You must demonstrate continuous com- pliance by
 2SLB and 4SLB stationary RICE >500 HP located at a major source and CI stationary RICE >500 HP located at a major source. 	a. Reduce CO emissions and using an oxidation catelyst, and using a CPMS.	i. Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is acrieved?; and ii. Collocting the catalyst inlet tempera- ture data eccording to §63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iv. Maintaining the 4-hour rolling aver- ages within the operating limitations for the catalyst inlet temperature; and v. Measuring the pressure drop across the catalyst once per month and dem- onstrating that the pressure drop across the catalyst is within the oper- ating limitation established during the performance test.
 25LB and 45LB stationary RICE >500 HP located at a major source and CI stationary RICE >500 HP located at a major source. 	 a. Reduce CO emissions and not using an oxidation catalyst, and using a CPMS. 	 Conducting semiannual performance tests for CO to demonstrate that the required CO percent reduction is achieved, and Collecting the approved operating per rameter (if any) data eccording to §63.6625(b); and Reducing these data to 4-hour rolling averages; and Maintaining the 4-hour rolling aver ages within the operating limitations for the operating parameters esteb lished during the performance test.

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For each	Complying with the requirement to	You must demonstrate continuous com- pliance by
 2SLB and 4SLB stationary RICE >500 HP located at a major source and Cl stationary RICE >500 HP located at a major source. 	a. Reduce CO emissions and using a CEMS.	 Collecting the monitoring data according to §63.6625(a), reducing the measurements to 1-hour averages, calculating the percent reduction of CO emissions according to §63.6620; and Demonstrating that the catalysi achieves the required percent reduction of CO emissions over the 4-hour averaging period; and Conducting an annuel RATA of your CEMS using PS 3 and 4A of 40 CFR part 60, appendix B, as well as daily and periodic data quality checks in ac cordance with 40 CFR part 60, appendix B.
4. 4SRB stationary RICE >500 HP lo- cated at a major source.	a. Reduce formaldehyde emissions and using NSCR.	 dix F, procedure 1. i. Collecting the catalyst inlet temperature data according to §63.6625(b); and ii. reducing these data to 4-hour rolling averages; and iii. Maintaining the 4-hour rolling averages; within the operating limitations for the catalyst inlet temperature; and iv. Measuring the pressure drop across the catalyst swithin the oper month and demonstrating that the pressure drop across the catalyst is within the oper aling limitation established during the performance test.
 4SRB stationary RICE >500 HP lo- called at a major source. 	 a. Reduce formaldehyde emissions and not using NSCR. 	b) Collecting the approved operating parameter (# any) data according to § 63.6625(b); and iii. Reducing these data to 4-hour rolling averages; and iii. Maintaining the 4-hour rolling aver ages within the operating limitations for the operating parameters estab lished during the performance test.
 4SRB stationary RICE with a brake HP 25,000 located at a major source. 	Reduce formaldehyde emissions	Conducting semiannual performance tests for formaldehyde to demonstrati that the required formaldehyde per cent reduction is achieved.*
 Stationary RICE >500 HP localed at a major source. 	Limit the concentration of formaldehyde in the stationary RICE exhaust and using oxidation catalyst or NSCR.	i. Conducting semiannual performance
 Stationary RICE >500 HP located at a major source. 	Limit the concentration of formaldehyde in the stationary RICE exhaust and not using oxidation catalyst or NSCR.	ating limitation established during the performance test. i. Conducting semiannual performan

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Foreach	Complying with the requirement to	You must demonstrate continuous com- pliance by
9. Existing stationary CI RICE not subject to any numerical emission limitations.	a. Work or Management practices	 Reducing these data to 4-hour rolling averages; and Maintaining the 4-hour rolling aver- ages within the operating limitations for the operating parameters estab- lished during the performance test. Operating and maintaining the sta- tionary RICE according to the manu- lacturer's emission-related operation and maintenance instructions; or Develop and follow your own mainte- nance plan which must provide to the extent practicable for the maintenance and operation of the engine in a man- ner consistent with good air pollution control practice for minimizing emis- sions.
 Existing stationary RICE >500 HP that are not limited use stationary RICE, ex- cept 4SR8 >500 HP located at major sources. 	 a. Reduce CO or formaldehyde emissions; or. b. Limit the concentration of formaldehyde or CO in the stationary RICE exhaust. 	i. Conducting performance tests every 8,760 hours or 3 years, whichever comes first, for CO or formatdehyde, as appropriate, to demonstrate that the required CO or formatdehyde, as appropriate, parcent reduction is achieved or that your emissions re- main at or below the CO or formalde- hyde concentration limit.
11. Existing limited use stationary RICE >500 HP that are limited use CI sta- tionary RICE.	 a. Reduce CO or formaldehyde emis- sions; or. b. Umit the concentration of formalde- hyde or CO in the stationary RICE ex- haust. 	i. Conducting performance tests every 8,760 hours or 5 years, whichave comes first, for CO or formaldehyde

After you have demonstrated compliance for two consecutive tests, you may induce the frequency of subsequent performance tests to annually. If the results of any subsequent annual performance test indicate the stationary RICE is not in compliance with the CO or formatcenyde emission limitation, or you deviate from any of your operating limitations, you must resume semiannual performance tests.

[75 FR 9685, Mar. 3, 2010]

TABLE 7 TO SUBPART ZZZZ OF PART 63—REQUIREMENTS FOR REPORTS

As stated in §63.6650, you must comply with the following requirements for reports:

You must submit a(n)	The report must contain	You must submit the report
1. Compliance report	a. If there are no deviations from any emission limitations or operating limi- tations that apply to you, a statement thet there were no deviations from the emission limitations or operating limi- tations during the reporting period. If there were no periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §53.8(c)(7), a statement that there were not periods during which the CMS was out-of-control during the re- porting period; or	emission limitations; and ii. Annually according to the require- ments in §53.6650(b)(6)-(9) for en- gines that are limited use stationary Cl
	b. If you had a deviation from any emission limitation or operating limitation during the reporting period, the information in §53.86550(d). If there were periods during which the CMS, including CEMS and CPMS, was out-of-control, as specified in §53.8(c)(7), the information in §53.6650(e); or	i. Semiannually according to the require- ments in §63.6650(b).

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You must submit a(n)	The report must contain	You must submit the report
	c. If you had a malfunction during the re- porting period, the information in §63.6650(c)(4).	i. Semiannually according to the requirements in § 63.6650(b).
2. Report	a. The fuel flow rate of each fuel and the heating values that were used in your calculations, and you must dem- onstrate that the percentage of heat input provided by landfill gas or di- gester gas, is equivalent to 10 percent or more of the gross heat input on an annual basis; and	 Annually, according to the require- ments in § 63.6650.
	b. The operating limits provided in your Federally enforceable permit, and any deviations from these limits; and	i. See item 2.a.i.
	c. Any problems or errors suspected with the meters.	i. See item 2.a.i.

[75 FR 9687, Mar. 3, 2010]

TABLE 8 TO SUBPART ZZZZ OF PART 63—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART ZZZZ.

As stated in §63.6665, you must comply with the following applicable general provisions.

General provisions citation	Subject of citation	Applies to sub- part	Explanation
§63.1	General applicability of the General Provisions.	Yes.	
\$ 63.2	Definitions	Yes	Additional terms defined in § 63.6675.
\$ 63.3	Units and abbreviations	Yes.	•
§63.4	Prohibited activities and circumven- tion.	Yes.	
\$ 63.5	Construction and reconstruction	Yes.	
63.6(a)	Applicability	Yes.	
563.6(b)(1)-(4)	Compliance dates for new and recon- structed sources.	Yes.	
§ 63.6(b)(5)	Notification	Yes.	
§ 63.6(b)(6)	[Reserved]		
§ 63.6(b)(7)	Compliance dates for new and recon- structed area sources that become major sources.	Yes.	
§ 63.6(c)(1)-(2)	Compliance dates for existing sources.	Yes.	
§63.6(c)(3)-(4)	[Reserved]		
§ 63.6(c)(5)	Compliance dates for existing area sources that become major sources.	Yes.	
§ 63.6(d)	[Reserved]	1	{
§ 63.6(e)	Operation and maintenance	No.	
\$ 63.6(f)(1)	Applicability of standards	No.	
§ 63.6(f)(2)	Methods for determining compliance	Yes.	
§ 63.6(f)(3)	Finding of compliance	Yes.	. ·
§ 63.6(g)(1)-(3)	Use of alternate standard	Yes.	(
§ 63.6(h)	Opacity and visible emission stand- ards.	No	Subpart ZZZZ does not contain opacity or visible emission standards.
§63.6(i)	Compliance extension procedures and criteria.	1	
§ 63.6(j)	Presidential compliance exemption	Yes.	[
§63.7(a)(1)-(2)	Performance test dates	Yes	Subpart ZZZZ contains performance test dates at §§ 63.6610, 63.6611 and 63.6612.
§ 63.7(a)(3)	CAA section 114 authority	Yes.	
§63.7(b)(1)	Notification of performance test	Yes	Except that §63.7(b)(1) only applies as specified in §63.6645.
§63.7(b)(2)	Notification of rescheduling	Yes	Except that §63.7(b)(2) only applies as specified in §63.6645.
§63.7(c)		1	Except that §63.7(c) only applies at specified in §63.6645.
§63.7(d)	Testing facilities	Yes.	
§63.7(e)(1)			Subpart ZZZZ specifies conditions to
	ance tests.		conducting performance tests a § 53.6620.

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General provisions citation	Subject of citation	Applies to sub- part	Explanation
j63.7(e)(2)	Conduct of performance tests and re- duction of data.	Yes	Subpart ZZZZ specifies test method: at § 63.6620.
63.7(e)(3) 63.7(e)(4)	Test run duration Administrator may require other test- ing under section 114 of the CAA.	Yes. Yes.	
63.7(1)	Alternative test method provisions	Yes.	
63.7(g)	Performance test data analysis, rec- ordkeeping, and reporting.	Yes.	
63.7(h)	Waiver of tests	Yes. Yes	Subpart ZZZZ contains specific re
00.0(B)(*)	ments.	103	quirements for monitoring a §63.6625.
63.8(a)(2)	Performance specifications	Yes.	
63.8(a)(3)	[Reserved]	l	
63.8(a)(4)	Monitoring for control devices	No.	
63.8(b)(1) 63.8(b)(2)-(3)	Monitoring Multiple effluents and multiple moni- toring systems.	Yes. Yes.	
63.8(c)(1)	Monitoring system operation and maintenance.	Yes.	
63.8(c)(1)(i)		Yes.	1
63.8(c)(1)(ii)		Yes.	
63.8(c)(1)(iii)		Yes.	
63.8(c)(2)-(3)		Yes.	1
63.8(c)(4)	Continuous monitoring system (CMS) requirements.	Yes	Except that subpart ZZZZ does n require Continuous Opacity Mor
63.8(c)(5)	COMS minimum procedures	No	toring System (COMS). Subpart ZZZZ does not require COMS.
63.8(c)(6)-{8)	CMS requirements	Yes	Except that subpert ZZZZ does n require COMS.
63.8(d)	CMS quality control	Yes.	
; 63.8(e)	CMS performance evaluation	Yes Except that \$63.8(e) only applies as specified	Except for §63.8(e)(5)(ii), which a plies to COMS.
69 8/1/1L/5)	Alternative monitoring method	in § 63.6645. Yes	
	Alternative to relative accuracy lest	Yes	as specified in §63.6645.
§63.8(g)	Data reduction	Yes	as specified in § 63.6645. Except that provisions for COMS a
			not applicable. Averaging period for demonstrating compliance a specified at §§ 63.6635 at 63.6640.
	Applicability and State delegation of notification requirements.	Yes.	
§63.9(b)(1)(5)	Initial notifications	Yes Except that §63.9(b)	Except that \$63.9(b)(3) is reserved.
		only applies as specified in § 63.6645.	
§ 63.9(c)	Request for compliance extension		Except that §63.9(c) only applies a specified in §63.6645.
§ 63.9(d)	Notification of special compliance re- quirements for new sources.	Yes	Except that § 63.9(d) only applies a specified in § 63.6645.
§63.9(e)		Yes	
§ 63.9(f)	Notification of visible emission (VE)/ opacity test.	No	
§ 63.9(g)(1)		Yes	
§63.9(g)(2)	Notification of use of COMS data	No	
§ 63.9(g)(3)	Notification that criterion for alter- native to RATA is exceeded.	Yes	If alternative is in use.

§ 63.7080

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General provisions citation	Subject of citation	Applies to sub- part	Explanation
		Except that § 63.9(g) only applies as specified in § 63.6645.	
§ 53.9(h)(1)(6)	Notification of compliance status	Yes	Except that notifications for sources using a CEMS are due 30 days after completion of performance evaluations. § 63.9(h)(4) is re- served. Except that § 63.9(h) only applies as
			specified in § 63.6645.
§63.9(i)		Yes.	1
§63.9(j)		Yes.	
§63.10(a)	keeping/reporting.	Yes.	
§63.10(b)(1)	Record retention	Yes.	
63.10(b)(2)(i)-(v)	Records related to SSM	No.	
63.10(b)(2)(vi)-(xi)	Records	Yes.	
63.10(b)(2)(xii)	Record when under waiver	Yes.	1
§63.10(b)(2)(xiii)	Records when using alternative to RATA.	Yes	For CO standard if using RATA alter native.
§63.10(b)(2)(xiv)	Records of supporting documentation	Yes.	
§63.10(b)(3)		Yes.	
§63.10(c)	Additional records for sources using CEMS.	Yes	Except that §63.10(c)(2)-(4) and (9 are reserved.
§63.10(d)(1)	General reporting requirements	Yes.	
§63.10(d)(2)		Yes.	
§63.10(d)(3)		No	Subpart ZZZZ does not contain opac ity or VE standards.
§ 63.10(d)(4)	Progress reports	Yes.	if of ve standards.
§63.10(d)(5)		No.	
§63.10(a)(1) and (2)(i)		Yes]
§63.10(e)(2)(ii)		No	Subpart ZZZZ does not require COMS.
§63.10(e)(3)	Excess emission and parameter exceedances reports.	Yes	
§63.10(e)(4)		No	
§ 63.10(f)	Waiver for recordkeeping/reporting	Yes.	
§ 63.11		No.	
63.12		Yes.	
\$63.13		Yes.	1
\$63.14		Yes.	1
\$63.15		Yes.	

[75 FR 9688, Mar. 3, 2010]

Subpart AAAAA—National Emission Standards for Hazardous Air Pollutants for Lime Manufacturing Plants

SOURCE: 69 FR 416, Jan. 5, 2004, unless otherwise noted.

WHAT THIS SUBPART COVERS

\$63.7080 What is the purpose of this subpart?

This subpart establishes national emission standards for hazardous air pollutants (NESHAP) for lime manufacturing plants. This subpart also establishes requirements to demonstrate initial and continuous compliance with the emission limitations.

§63.7081 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate a lime manufacturing plant (LMP) that is a major source, or that is located at, or is part of, a major source of hazardous air pollutant (HAP) emissions, unless the LMP is located at a kraft pulp mill, soda pulp mill, sulfite pulp mill, beet sugar manufacturing plant, or only processes sludge containing calcium Appendix D

§63.10681

Citation	Subject	Applies to subpart WWWWW	Explanation
§63.6{c)(2), (5)	Compliance dates for CAA sec-	No.	
	tion 112(f) standards and for	1	
	area sources that become major.		
63.6(c)(3)-(4)	[Reserved].		
63.6(d)		1	
63.6(e)-(h)	Alternative nonopacity emission standard.	No.	
§ 63.6(I)-(I)	Compliance extension	Yes	
\$63.7	Performance testing require-	No.	
63.8	Monitoring requirements	No.	
\$63.9(a)	Applicability and initial notifica-	Yes.	
	tions addressees.		
63.9(b)	Initial notifications	No.	
63.9(c)	Request for extension of compli-	Yes.	
	ance.		
§63.9(d)(j)	Other notifications	No.	
\$63.10(a)(1)-(2)	Recordkeeping and reporting re-	Yes.	
	quirements, applicability.		
63.10(s)(3)-{4}	General information	Yes.	
§ 63.10(a)(5)-(7)	Recordkeeping and reporting re-	No.	
	quirements, reporting sched-		
63.10(b)(1)	Retention time	Yes.	
63.10(b)(2)-(f)	Recordkeeping and reporting re-	No.	
	quirements.	}	
\$63.11	Control device requirements	No.	
63.12	State authority and delegations	Yes.	
\$\$ 63.13-63.16	Addresses, Incorporations by	Yes.	
	Reference, availability of infor-		
	mation, performance track	1	
	provisions.		

Subpart XXXXX [Reserved]

Subpart YYYY—National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities

SOURCE: 72 FR 74111, Dec. 28, 2007, unless otherwise noted.

APPLICABILITY AND COMPLIANCE DATES

\$63.10680 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate an electric arc furnace (EAF) steelmaking facility that is an area source of hazardous air pollutant (HAP) emissions.

(b) This subpart applies to each new or existing affected source. The affected source is each EAF steelmaking facility.

(1) An affected source is existing if you commenced construction or reconstruction of the affected source on or before September 20, 2007.

(2) An affected source is new if you commenced construction or reconstruction of the affected source after September 20, 2007.

(c) This subpart does not apply to research and development facilities, as defined in section 112(c)(7) of the Clean Air Act (CAA).

(d) If you own or operate an area source subject to this subpart, you must have or obtain a permit under 40 CFR part 70 or 40 CFR part 71.

§63.10681 What are my compliance dates?

(a) Except as provided in paragraph (b) of this section, if you own or operate an existing affected source, you must achieve compliance with the applicable provisions of this subpart by no later than June 30, 2008.

(b) If you own or operate an existing affected source, you must achieve compliance with opacity limit in $\S63.10686(b)(2)$ or (c)(2) by no later than December 28, 2010 if you demonstrate to the satisfaction of the permitting

§63.10685

authority that additional time is needed to install or modify emission control equipment.

(c) If you start up a new affected source on or before December 28, 2007, you must achieve compliance with the applicable provisions of this subpart by no later than December 28, 2007.

(d) If you start up a new affected source after December 28, 2007, you must achieve compliance with the applicable provisions of this subpart upon startup of your affected source.

STANDARDS AND COMPLIANCE REQUIREMENTS

§63.10685 What are the requirements for the control of contaminants from scrap?

(a) Chlorinated plastics, lead, and free organic liquids. For metallic scrap utilized in the EAF at your facility, you must comply with the requirements in either paragraph (a)(1) or (2) of this section. You may have certain scrap at your facility subject to paragraph (a)(1) of this section and other scrap subject to paragraph (a)(2) of this section provided the scrap remains segregated until charge make-up.

(1) Pollution prevention plan. For the production of steel other than leaded steel, you must prepare and implement a pollution prevention plan for metallic scrap selection and inspection to minimize the amount of chlorinated plastics, lead, and free organic liquids that is charged to the furnace. For the production of leaded steel, you must prepare and implement a pollution prevention plan for scrap selection and inspection to minimize the amount of chlorinated plastics and free organic liquids in the scrap that is charged to the furnace. You must submit the scrap pollution prevention plan to the permitting authority for approval. You must operate according to the plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by the permitting authority within 60 days following disapproval of a plan. You may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the permitting authority. You must keep a

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copy of the plan onsite, and you must provide training on the plan's requirements to all plant personnel with materials acquisition or inspection duties. Each plan must include the information in paragraphs (a)(1)(i) through (iii) of this section:

(i) Specifications that scrap materials must be depleted (to the extent practicable) of undrained used oil filters, chlorinated plastics, and free organic liquids at the time of charging to the furnace.

(ii) A requirement in your scrap specifications for removal (to the extent practicable) of lead-containing components (such as batteries, battery cables, and wheel weights) from the scrap, except for scrap used to produce leaded steel.

(iii) Procedures for determining if the requirements and specifications in paragraph (a)(1) of this section are met (such as visual inspection or periodic audits of scrap providers) and procedures for taking corrective actions with vendors whose shipments are not within specifications.

(iv) The requirements of paragraph (a)(1) of this section do not apply to the routine recycling of baghouse bags or other internal process or maintenance materials in the furnace. These exempted materials must be identified in the pollution prevention plan.

(2) Restricted metallic scrap. For the production of steel other than leaded steel, you must not charge to a furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings, transformers or capacitors containing polychlorinated biphenyls, lead-containing components. chlorinated plastics, or free organic liquids. For the production of leaded steel, you must not charge to the furnace metallic scrap that contains scrap from motor vehicle bodies, engine blocks, oil filters, oily turnings, machine shop borings, transformers or capacitors containing polychlorinated biphenyls, chlorinated plastics, or free organic liquids. This restriction does not apply to any post-consumer engine blocks, post-consumer oil filters, or oily turnings that are processed or cleaned to the extent practicable such that the materials do not include lead

components, chlorinated plastics, or free organic liquids. This restriction does not apply to motor vehicle scrap that is charged to recover the chromium or nickel content if you meet the requirements in paragraph (b)(3) of this section.

(b) Mercury requirements. For scrap containing motor vehicle scrap, you must procure the scrap pursuant to one of the compliance options in parasraphs (b)(1), (2), or (3) of this section for each scrap provider, contract, or shipment. For scrap that does not contain motor vehicle scrap, you must procure the scrap pursuant to the requirements in paragraph (b)(4) of this section for each scrap provider, contract, or shipment. You may have one scrap provider, contract, or shipment subject to one compliance provision and others subject to another compliance provision.

(1) Site-specific plan for mercury switches. You must comply with the requirements in paragraphs (b)(1)(i) through (v) of this section.

(i) You must include a requirement in your scrap specifications for removal of mercury switches from vehicle bodies used to make the scrap.

(ii) You must prepare and operate according to a plan demonstrating how your facility will implement the scrap specification in paragraph (b)(1)(i) of this section for removal of mercury switches. You must submit the plan to the permitting authority for approval. You must operate according to this plan as submitted during the review and approval process, operate according to the approved plan at all times after approval, and address any deficiency identified by the permitting authority within 60 days following disapproval of a plan. You may request approval to revise the plan and may operate according to the revised plan unless and until the revision is disapproved by the permitting authority. The permitting authority may change the approval status of the plan upon 90days written notice based upon the semiannual compliance report or other information. The plan must include:

(A) A means of communicating to scrap purchasers and scrap providers the need to obtain or provide motor vehicle scrap from which mercury switch-

es have been removed and the need to ensure the proper management of the mercury switches removed from that scrap as required under the rules implementing subtitle C of the Resource Conservation and Recovery Act (RCRA) (40 CFR parts 261 through 265 and 268). The plan must include documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the permitting authority, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents. and scrap inspection protocols;

(B) Provisions for obtaining assurance from scrap providers that motor vehicle scrap provided to the facility meet the scrap specification;

(C) Provisions for periodic inspections or other means of corroboration to ensure that scrap providers and dismantlers are implementing appropriate steps to minimize the presence of mercury switches in motor vehicle scrap and that the mercury switches removed are being properly managed, including the minimum frequency such means of corroboration will be implemented; and

(D) Provisions for taking corrective actions (i.e., actions resulting in scrap providers removing a higher percentage of mercury switches or other mercury-containing components) if needed, based on the results of procedures implemented in paragraph (b)(1)(ii)(C) of this section).

(iii) You must require each motor vehicle scrap provider to provide an estimate of the number of mercury switches removed from motor vehicle scrap sent to your facility during the previous year and the basis for the estimate. The permitting authority may request documentation or additional information at any time.

(iv) You must establish a goal for each scrap provider to remove at least 80 percent of the mercury switches. Although a site-specific plan approved under paragraph (b)(1) of this section may require only the removal of convenience light switch mechanisms, the permitting authority will credit all documented and verifiable mercurycontaining components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal.

(v) For each scrap provider, you must submit semiannual progress reports to the permitting authority that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches removed, and certification that the removed mercury switches were recycled at RCRA-permitted facilities or otherwise properly managed pursuant to RCRA subtitle C regulations referenced in paragraph (b)(1)(ii)(A) of this section. This information can be submitted in aggregated form and does not have to be submitted for each scrap provider, contract, or shipment. The permitting authority may change the approval status of a site-specific plan following 90-days notice based on the progress reports or other information.

(2) Option for approved mercury programs. You must certify in your notification of compliance status that you participate in and purchase motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of this section. If you purchase motor vehicle scrap from a broker, you must certify that all scrap received from that broker was obtained from other scrap providers who participate in a program for the removal of mercury switches that has been approved by the Administrator based on the criteria in paragraphs (b)(2)(i) through (iii) of this section. The National Vehicle Mercury Switch Recovery Program and the Vehicle Switch Recovery Program mandated by Maine State law are EPA-approved programs under paragraph (b)(2) of this section unless and until the Administrator disapproves the program (in part or in whole) under paragraph (b)(2)(iii) of this section.

(i) The program includes outreach that informs the dismantlers of the 40 CFR Ch. I (7-1-10 Edition)

need for removal of mercury switches and provides training and guidance for removing mercury switches;

(ii) The program has a goal to remove at least 80 percent of mercury switches from the motor vehicle scrap the scrap provider processes. Although a program approved under paragraph (b)(2) of this section may require only the removal of convenience light switch mechanisms, the Administrator will credit all documented and verifiable mercury-containing components removed from motor vehicle scrap (such as sensors in anti-locking brake systems, security systems, active ride control, and other applications) when evaluating progress towards the 80 percent goal; and

(iii) The program sponsor agrees to submit progress reports to the Administrator no less frequently than once every year that provide the number of mercury switches removed or the weight of mercury recovered from the switches, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and certification that the recovered mercury switches were recycled at facilities with permits as required under the rules implementing subtitle C of RCRA (40 CFR parts 261 through 265 and 268). The progress reports must be based on a database that includes data for each program participant; however, data may be aggregated at the State level for progress reports that will be publicly available. The Administrator may change the approval status of a program or portion of a program (e.g., at the State level) following 90-days notice based on the progress reports or on other information.

(iv) You must develop and maintain onsite a plan demonstrating the manner through which your facility is participating in the EPA-approved program.

(A) The plan must include facilityspecific implementation elements, corporate-wide policies, and/or efforts coordinated by a trade association as appropriate for each facility.

(B) You must provide in the plan documentation of direction to appropriate staff to communicate to suppliers throughout the scrap supply chain the

need to promote the removal of mercury switches from end-of-life vehicles. Upon the request of the permitting authority, you must provide examples of materials that are used for outreach to suppliers, such as letters, contract language, policies for purchasing agents, and scrap inspection protocols.

(C) You must conduct periodic inspections or provide other means of corroboration to ensure that scrap providers are aware of the need for and are implementing appropriate steps to minimize the presence of mercury in scrap from end-of-life vehicles.

(3) Option for specialty metal scrap. You must certify in your notification of compliance status that the only materials from motor vehicles in the scrap are materials recovered for their specialty alloy (including, but not limited to, chromium, nickel, molybdenum, or other alloys) content (such as certain exhaust systems) and, based on the nature of the scrap and purchase specifications, that the type of scrap is not reasonably expected to contain mercury switches.

(4) Scrap that does not contain motor vehicle scrap. For scrap not subject to the requirements in paragraphs (b)(1) through (3) of this section, you must certify in your notification of compliance status and maintain records of documentation that this scrap docs not contain motor vehicle scrap.

(c) Recordseeping and reporting requirements. In addition to the records required by §63.10, you must keep records to demonstrate compliance with the requirements for your pollution prevention plan in paragraph (a)(1) of this section and/or for the use of only restricted scrap in paragraph (a)(2) of this section and for mercury in paragraphs (b)(1) through (3) of this section as applicable. You must keep records documenting compliance with paragraph (b)(4) of this section for scrap that does not contain motor vehicle scrap.

(1) If you are subject to the requirements for a site-specific plan for mercury under paragraph (b)(1) of this section, you must:

(i) Maintain records of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the es-

timated number of vehicles processed, and an estimate of the percent of mercury switches recovered; and

(ii) Submit semiannual reports of the number of mercury switches removed or the weight of mercury recovered from the switches and properly managed, the estimated number of vehicles processed, an estimate of the percent of mercury switches recovered, and a certification that the recovered mercury switches were recycled at RCRA-permitted facilities. The semiannual reports must include a certification that you have conducted inspections or taken other means of corroboration as required under paragraph (b)(1)(ii)(C) of this section. You may include this information in the semiannual compliance reports required under paragraph (c)(3) of this section.

(2) If you are subject to the option for approved mercury programs under paragraph (b)(2) of this section, you must maintain records identifying each scrap provider's participation in an approved mercury switch removal program. If you purchase motor vehicle scrap from a broker, you must maintain records identifying each broker and documentation that all scrap provided by the broker was obtained from other scrap providers who participate in an approved mercury switch removal program.

(3) You must submit semiannual compliance reports to the Administrator for the control of contaminants from scrap according to the requirements in §63.10(e). The report must clearly identify any deviation from the requirements in paragraphs (a) and (b) of this section and the corrective action taken. You must identify which compliance option in paragraph (b) of this section applies to each scrap provider, contract, or shipment.

§63.10686 What are the requirements for electric arc furnaces and argonoxygen decarburization vessels?

(a) You must install, operate, and maintain a capture system that collects the emissions from each EAF (including charging, melting, and tapping operations) and argon-oxygen

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decarburization (AOD) vessel and conveys the collected emissions to a control device for the removal of particulate matter (PM).

(b) Except as provided in paragraph (c) of this section, you must not discharge or cause the discharge into the atmosphere from an EAF or AOD vessel any gases which:

(1) Exit from a control device and contain in excess of 0.0052 grains of PM per dry standard cubic foot (gr/dscf); and

(2) Exit from a melt shop and, due solely to the operations of any affected EAF(s) or AOD vessel(s), exhibit 6 percent opacity or greater.

(c) If you own or operate a new or existing affected source that has a production capacity of less than 150,000 tons per year (tpy) of stainless or specialty steel (as determined by the maximum production if specified in the source's operating permit or EAF capacity and maximum number of operating hours per year), you must not discharge or cause the discharge into the atmosphere from an EAF or AOD vessel any gases which:

(1) Exit from a control device and contain particulate matter (PM) in excess of 0.8 pounds per ton (lb/ton) of steel. Alternatively, the owner or operator may elect to comply with a PM limit of 0.0052 grains per dry standard cubic foot (gr/dsef); and

(2) Exit from a melt shop and, due solely to the operations of any affected EAF(s) or AOD vessel(s), exhibit 6 percent opacity or greater.

(d) Except as provided in paragraph (d)(6) of this section, you must conduct performance tests to demonstrate initial compliance with the applicable emissions limit for each emissions source subject to an emissions limit in paragraph (b) or (c) of this section.

(1) You must conduct each PM performance test for an EAF or AOD vessel according to the procedures in §63.7 and 40 CFR 60.275a using the following test methods in 40 CFR part 60, appendices A-1, A-2, A-3, and A-4:

(i) Method I or IA of appendix A-1 of 40 CFR part 60 to select sampling port locations and the number of traverse points in each stack or duct. Sampling sites must be located at the outlet of the control device (or at the outlet of 40 CFR Ch. I (7-1-10 Edition)

the emissions source if no control device is present) prior to any releases to the atmosphere.

(ii) Method 2, 2A, 2C, 2D, 2F, or 2G of appendix A-1 of 40 CFR part 60 to determine the volumetric flow rate of the stack gas.

(iii) Method 3, 3A, or 3B of appendix A-3 of 40 CFR part 60 to determine the dry molecular weight of the stack gas. You may use ANSI/ASME PTC 19.10-1981, "Flue and Exhaust Gas Analyses" (incorporated by reference—see §63.14) as an alternative to EPA Method 3B.

(iv) Method 4 of appendix A-3 of 40 CFR part 60 to determine the moisture content of the stack gas.

(v) Method 5 or 5D of appendix A-3 of 40 CFR part 60 to determine the PM concentration. Three valid test runs are needed to comprise a PM performance test. For EAF, sample only when metal is being melted and refined. For AOD vessels, sample only when the operation(s) are being conducted.

(2) You must conduct each opacity test for a melt shop according to the procedures in §63.6(h) and Method 9 of appendix A-4 of 40 CFR part 60. When emissions from any EAF or AOD vessel are combined with emissions from emission sources not subject to this subpart, you must demonstrate compliance with the melt shop opacity limit based on emissions from only the emission sources subject to this subpart.

(3) During any performance test, you must monitor and record the information specified in 40 CFR 60.274a(h) for all heats covered by the test.

(4) You must notify and receive approval from the Administrator for procedures that will be used to determine compliance for an EAF or AOD vessel when emissions are combined with those from facilities not subject to this subpart.

(5) To determine compliance with the PM emissions limit in paragraph (c) of this section for an EAF or AOD vessel in a lb/ton of steel format, compute the process-weighted mass emissions (E_p) for each test run using Equation 1 of this section:

$$E_{p} = \frac{C \times Q \times T}{P \times K} \qquad (Eq. 1)$$

Where:

 $E_p =$ Process-weighted mass emissions of PM. lb/ton;

C = Concentration of PM or total metal HAP, gr/dscf;

Q = Volumetric flow rate of stack gas, dscf/ hr;

T = Total time during a test run that a sample is withdrawn from the stack during steel production cycle, hr;

P = Total amount of metal produced during the test run, tons; and

K = Conversion factor, 7,000 grains per pound.

(6) If you own or operate an existing affected source that is subject to the emissions limits in paragraph (b) or (c) of this section, you may certify initial compliance with the applicable emission limit for one or more emissions sources based on the results of a previous performance test for that emissions source in lieu of the requirement for an initial performance test provided that the test(s) were conducted within 5 years of the compliance date using the methods and procedures specified in paragraph (d)(1) or (2) of this section; the test(s) were for the affected facility: and the test(s) were representative of current or anticipated operating processes and conditions. Should the permitting authority deem the prior test data unacceptable to demonstrate compliance with an applicable emissions limit, the owner or operator must conduct an initial performance test within 180 days of the compliance date or within 90 days of receipt of the notification of disapproval of the prior test, whichever is later.

OTHER INFORMATION AND REQUIREMENTS

§63.10690 What parts of the General Provisions apply to this subpart?

(a) You must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) as provided in Table 1 of this subpart.

(b) The notification of compliance status required by $\S63.9(h)$ must include each applicable certification of compliance, signed by a responsible official, in paragraphs (b)(1) through (6) of this section.

(1) For the pollution prevention plan requirements in $\S63.10685(a)(1)$: "This facility has submitted a pollution prevention plan for metallic scrap selection and inspection in accordance with §63.10685(a)(1)";

(2) For the restrictions on metallic scrap in §63.10685(a)(2): "This facility complies with the requirements for restricted metallic scrap in accordance with §63.10685(a)(2)";

(3) For the mercury requirements in §63.10685(b):

(i) "This facility has prepared a sitespecific plan for mercury switches in accordance with $\S 63.10685(b)(1)$ ";

(ii) "This facility participates in and purchases motor vehicle scrap only from scrap providers who participate in a program for removal of mercury switches that has been approved by the EPA Administrator in accordance with $\S63.10685(b)(2)$ " and has prepared a plan demonstrating how the facility participates in the EPA-approved program in accordance with $\S63.10685(b)(2)(iv)$;

(iii) "The only materials from motor vehicles in the scrap charged to an electric arc furnace at this facility are materials recovered for their specialty alloy content in accordance with §63.10685(b)(3) which are not reasonably expected to contain mercury switches"; or

(iv) "This facility complies with the requirements for scrap that does not contain motor vehicle scrap in accordance with § 63.10685(b)(4)."

(4) This certification of compliance for the capture system requirements in §63.10686(a), signed by a responsible official: "This facility operates a capture system for each electric arc furnace and argon-oxygen decarburization vessel that conveys the collected emissions to a PM control device in accordance with §63.10686(a)".

(5) If applicable, this certification of compliance for the performance test requirements in $\S63.10686(d)(6)$: "This facility certifies initial compliance with the applicable emissions limit in $\S63.10686(a)$ or (b) based on the results of a previous performance test in accordance with $\S63.10686(d)(6)$ ".

(6) This certification of compliance for the monitoring requirements in §63.10686(e), signed by a responsible official: "This facility has developed and submitted proposed monitoring information in accordance with 40 CFR part 64".

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§63.10691 Who implements and enforces this subpart?

(a) This subpart can be implemented and enforced by the EPA or a delegated authority such as a State, local, or tribal agency. If the EPA Administrator has delegated authority to a State, local, or tribal agency, then that Agency has the authority to implement and enforce this subpart. You should contact your EPA Regional Office to find out if this subpart is delegated to your State, local, or tribal agency.

(b) In delegating implementation and enforcement authority of this subpart to a State, local, or tribal agency under 40 CFR part 63, subpart E, the authorities contained in paragraph (c) of this section are retained by the Administrator and are not transferred to the State, local, or tribal agency.

(c) The authorities that will not be delegated to State, local, or tribal agencies are listed in paragraphs (c)(1) through (6) of this section.

(1) Approval of an alternative nonopacity emissions standard under 40 CFR 63.6(g).

(2) Approval of an alternative opacity emissions standard under §63.6(h)(9).

(3) Approval of a major change to test methods under 63.7(e)(2)(ii) and (f). A "major change to test method" is defined in 40 CFR 63.90.

(4) Approval of major change to monitoring under 40 CFR 63.8(f). A "major change to monitoring" is defined in 40 CFR 63.90.

(5) Approval of a major change to recordkeeping/reporting under 40 CFR 63.10(f). A "major change to recordkeeping/reporting" is defined in 40 CFR 63.90.

(6) Approval of a program for the removal of mercury switches under §63.10685(b)(2).

\$63.10692 What definitions apply to this subpart?

Terms used in this subpart are defined in the Clean Air Act, in \S 63.2, and in this section as follows:

Argon-orygen decarburization (AOD) vessel means any closed-bottom, refractory-lined converter vessel with submerged tuyeres through which gaseous mixtures containing argon and oxygen

or nitrogen may be blown into molten steel for further refining.

Capture system means the equipment (including ducts, hoods, fans, dampers, etc.) used to capture or transport emissions generated by an electric arc furnace or argon-oxygen decarburization vessel to the air pollution control device.

Chlorinated plastics means solid polymeric materials that contain chlorine in the polymer chain, such as polyvinyl chloride (PVC) and PVC copolymers.

Control device means the air pollution control equipment used to remove particulate matter from the effluent gas stream generated by an electric arc furnace or argon-oxygen decarburization vessel.

Deviation means any instance where an affected source subject to this subpart, or an owner or operator of such a source:

(1) Fails to meet any requirement or obligation established by this subpart, including but not limited to any emissions limitation or work practice standard;

(2) Fails to meet any term or condition that is adopted to implement an applicable requirement in this subpart and that is included in the operating permit for any affected source required to obtain such a permit; or

(3) Fails to meet any emissions limitation in this subpart during startup, shutdown, or malfunction, regardless of whether or not such failure is permitted by this subpart.

Electric arc furnace (EAF) means a furnace that produces molten steel and heats the charge materials with electric arcs from carbon electrodes. An electric arc furnace consists of the furnace shell, roof, and the transformer.

Electric arc furnace (EAF) steelmaking facility means a steel plant that produces carbon, alloy, or specialty steels using an EAF. This definition excludes EAF steelmaking facilities at steel foundries and EAF facilities used to produce nonferrous metals.

Free organic liquids means material that fails the paint filter test by EPA Method 9095B, (revision 2, dated November 1994) (incorporated by reference-see §63.14) after accounting for water using a moisture determination

test by ASTM Method D2216-05 (incorporated by reference—see §63.14). If, after conducting a moisture determination test, if any portion of the material passes through and drops from the filter within the 5-minute test period, the material contains free organic liquids.

Leaded steel means steel that must meet a minimum specification for lead content (typically 0.25 percent or more) and for which lead is a necessary alloy for that grade of steel.

Mercury switch means each mercurycontaining capsule or switch assembly that is part of a convenience light switch mechanism installed in a vehicle.

Motor vehicle means an automotive vehicle not operated on rails and usually operated with rubber tires for use on highways.

Motor vehicle scrap means vehicle or automobile bodies, including automobile body hulks, that have been processed through a shredder. Motor vePt. 63, Subpt. YYYYY, Table 1

hicle scrap does not include automobile manufacturing bundles, or miscellaneous vehicle parts, such as wheels, bumpers or other components that do not contain mercury switches.

Nonferrous metals means any pure metal other than iron or any metal alloy for which an element other than iron is its major constituent by percent in weight.

Scrap provider means the person (including a broker) who contracts directly with a steel mill to provide scrap that contains motor vehicle scrap. Scrap processors such as shredder operators or vehicle dismantlers that do not sell scrap directly to a steel mill are not scrap providers.

Specialty steel means low carbon and high alloy steel other than stainless steel that is processed in an argon-oxygen decarburization vessel.

Stainless steel means low carbon steel that contains at least 10.5 percent chromium.

TABLE 1 TO SUBPART YYYYY OF PART 63—APPLICABILITY OF GENERAL PROVISIONS TO SUBPART YYYYY

As required in § 63.10691(a), you must comply with the requirements of the NESHAP General Provisions (40 CFR part 63, subpart A) shown in the following table.

Citation	Subject	Applies to subpart YYYYY?	Explanation
§ 63.1(a)(1), (a)(2), (a)(3), (a)(4), (a)(6), (a)(10)-(a)(12), (b)(1), (b)(3), (c)(1), (c)(2), (c)(5), (a).	Applicability	Yes.	
§ 63.1(a)(5), (a)(7)-(a)(9), (b)(2), (c)(3), (c)(4), (d).	Reserved	No.	
§ 63.2	Definitions	Yes.	
§ 63.3	Units and Abbreviations	Yes.	
§ 53.4	Prohibited Activities and Cir- currivention.	Yes.	1
§ 63.5	Preconstruction Review and No- tification Requirements.	Yes.	
$ \begin{array}{lllllllllllllllllllllllllllllllllll$	Compliance with Standards and Maintenance Requirements.	Y es .	
§ 63.6(b)(6), (c)(3), (c)(4), (d), (e)(2), (e)(3)(ii), (h)(3), (h)(5)(iv).	Reserved	No.	
§63.7	Applicability and Performance Test Dates.	Yes.	
§ 63.8(a)(1), (a)(2), (b), (c), (d), (e), (f)(1)-(5), (g).	Monitoring Requirements	Yes	Requirements apply if a COMS or CEMS is used.
§ 63.8(e)(3)	[Reserved]	No.	}
§ 63.8(e)(4)	Additional Monitoring Require- ments for Control Devices in §63.11.		
§ 63.8(c)(4)		Yes	Requirements apply if a COMS or CEMS is used.
§ 63.8(f)(6)	RATA Alternative	Yes	Requirements apply if a CEM is used.

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Citation	Subject	Applies to subpart YYYYY?	Explanation
§ 63.9(a), (b)(1), (b)(2), (b)(5), (c), (d), (f), (g), (h)(1)-(h)(3), (h)(5), (h)(6), (f), (j), § 63.9(b)(3), (h)(4)	Natification Requirements	Yes. No.	
§ 63.9(b)(4)		No.	1
§ 63.10(a). (b)(1), (b)(2)(i)–(v), (b)(2)(xtv), (b)(3), (c)(1), (c)(5)– (c)(8), (c)(10)–(c)(15), (d), (e)(1)–(e)(4), (f).	Recordkeeping and Reporting Requirements.	Yes	Additional records for CMS in §63.10(c) (1)–(6), (9)–(15), and reports in §63.10(d)(1)– (2) apply if a COMS or CEMS is used.
§63.10(b)(2)(xiii)	CMS Records for RATA Alter-	Yes	Requirements apply if a CEMS is used.
§63.10(c)(2)-(c)(4), (c)(9)	Reserved	NO.	1
§63.11	Control Device Requirements	NO.	ł
\$ 63.12	State Authority and Delegations	Yes.	l .
§§ 63.13–63.16	Addresses, Incorporations by	Yes.	1
	Reference, Availability of In-	1	}
	formation, Performance Track		
	Provisions.	1	1

Subpart ZZZZ—National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources

SOURCE: 73 FR 252, Jan. 2, 2008, unless otherwise noted.

APPLICABILITY AND COMPLIANCE DATES

\$63.10880 Am I subject to this subpart?

(a) You are subject to this subpart if you own or operate an iron and steel foundry that is an area source of hazardous air pollutant (HAP) emissions.

(b) This subpart applies to each new or existing affected source. The affected source is each iron and steel foundry.

(1) An affected source is existing if you commenced construction or reconstruction of the affected source before September 17, 2007.

(2) An affected source is new if you commenced construction or reconstruction of the affected source on or after September 17, 2007. If an affected source is not new pursuant to the preceding sentence, it is not new as a result of a change in its compliance obligations pursuant to §63,10881(d).

(c) On and after January 2, 2008, if your iron and steel foundry becomes a major source as defined in §63.2, you must meet the requirements of 40 CFR part 63, subpart EEEEE.

(d) This subpart does not apply to research and development facilities, as defined in section 112(c)(7) of the Clean Air Act.

(e) You are exempt from the obligation to obtain a permit under 40 CFR part 70 or 40 CFR part 71, provided you are not otherwise required by law to obtain a permit under 40 CFR 70.3(a) or 40 CFR 71.3(a). Notwithstanding the previous sentence, you must continue to comply with the provisions of this subpart.

(f) If you own or operate an existing affected source, you must determine the initial applicability of the requirements of this subpart to a small foundry or a large foundry based on your facility's metal melt production for calendar year 2008. If the metal melt production for calendar year 2008 is 20,000 tons or less, your area source is a small foundry. If your metal melt production for calendar year 2008 is greater than 20,000 tons, your area source is a large foundry. You must submit a written notification to the Administrator that identifies your area source as a small foundry or a large foundry no later than January 2, 2009.

(g) If you own or operate a new affected source, you must determine the initial applicability of the requirements of this subpart to a small foundry or a large foundry based on your facility's annual metal melting capacity at startup. If the annual metal melting capacity is 10,000 tons or less, your area source is a small foundry. If the annual metal melting capacity is greater than 10,000 tons, your area source is a large

CERTIFICATE OF SERVICE

I, Pam Owen, hereby certify that a copy of this permit has been mailed by first class mail to Arkansas Steel Associates, LLC, 2803 Van Dyke Road, Newport, AR, 72112, on this _____

040ber____, 2013. day of ____

Pam Owen, AAII, Air Division

CERTIFICATE OF SERVICE

I, Cynthia Hook, hereby certify that a copy of this permit has been mailed by first class mail to

Arkansas Steel Associates, LLC, 2803 Van Dyke Road, Newport, AR, 72112, on this

19th er _day of __ nla _, 2015.

Oynthia Hook, ASIII, Air Division