305 Fountain Circle
Huntsville, AL 35801

Huntsville, Alabama

Cover Memo

Meeting Type: City Council Regular Meeting **Meeting Date:** 12/19/2024 **File ID:** TMP-4939

Department: Natural Resources

Subject: **Type of Action:** Approval/Action

Resolution to set a public hearing amending the City of Huntsville Air Pollution Control Rules and Regulations; and introduction of an ordinance pertaining to the same. (Set January 23, 2025, Regular Council Meeting)

Resolution No.

Finance Information:

Account Number: N/A

City Cost Amount: N/A

Total Cost: $ N/A

Special Circumstances:

Grant Funded: N/A

Grant Title - CFDA or granting Agency: N/A

Resolution #: N/A

Location: (list below)

Address: N/A
District: District 1 ☐ District 2 ☐ District 3 ☐ District 4 ☐ District 5 ☐

Additional Comments:
Request to update the City's Air Pollution Control Rules and Regulations to incorporate changes to Federal and State law. The Air Pollution Control Rules and Regulations for the City of Huntsville must be updated periodically to maintain consistency between the Local Air Pollution Control Program and Federal and State Law. Local requirements must be at least as stringent as corresponding provisions of Federal and State regulations.

RESOLUTION NO. _____

WHEREAS, the City of Huntsville, Alabama, on the 27th day of July, 1972, under and by virtue of Ordinance No. 72-156, adopted rules and regulations, as amended, governing the control of air pollution within the City of Huntsville, Alabama, and

WHEREAS, the Air Pollution Control Board of the City of Huntsville has recommended the adoption of amendments, revisions, and additions to the air pollution control rules and regulations heretofore adopted, and

WHEREAS, the City Council of the City of Huntsville, Alabama, wishes to consider passage of an ordinance to amend the rules and regulations governing the control of air pollution within the City of Huntsville said ordinance being hereby introduced and being substantially as follows:

ORDINANCE NO. _____

BE IT ORDAINED by the City Council of the City of Huntsville, Alabama as follows:

Section 1. Article II ("Air Pollution") of Chapter 12 ("Environmental Management") of the Code of Ordinances of the City of Huntsville, Alabama, as adopted by the City Council of the City of Huntsville, Alabama on the 15th day of December, 2022, is hereby amended to read as follows:

Section 12-31. The air pollution rules and regulations as heretofore adopted by the City Council, pursuant to Ordinance No. 72-156 on July 27, 1972, and as amended by Ordinance Nos. 73-18, 75-180, 76-334, 78-150, 80-152, 82-297, 86-18, 86-523, 92-107, 93-709, 94-74, 95-839, 97-41, 98-153, 99-494, 00-811, 01-730, 03-143, 04-485, 07-568, 11-507, 16-009, 17-486, and 22-886 as recommended by the Air Pollution Control Board of the city, are adopted by reference, with copies being kept on file permanently in the office of the City Clerk.

(Code 1982, § 12-36; Ord. No. 00-811, § 1, 11-9-2000, Ord. No. 01-730, § 1, 9-13-2001, Ord. No. 03-143, § 1, 4-10-2003, 04-485, § 1, 8-12-2004; Ord. No. 07-568, § 1, 7-26-2007; Ord. No. 16-009, § 1, 3-10-2016; Ord. No. 17-486, § 1, Ord. No. 22-886)

Section 12-32. There are hereby adopted as amendments to the rules and regulations to govern the control and abatement of air pollution within the city by reference, as the same were adopted pursuant to Ordinance No. 72-156 on the 27th day of July, 1972, and amended by Ordinance No. 73-18, Ordinance No. 75-180, Ordinance No. 76-334, Ordinance No. 78-150, Ordinance No. 80-152, Ordinance No. 82-297, Ordinance No. 86-18, Ordinance No. 86-523, Ordinance No. 92-107, Ordinance No. 93-709, Ordinance No. 94-74, Ordinance No. 95-839, Ordinance No. 97-41, Ordinance No. 98-153, Ordinance No. 99-494, Ordinance No. 00-811, Ordinance No. 01-730, Ordinance No. 03-143, Ordinance No. 04-485, Ordinance No. 07-568, Ordinance No. 11-507, Ordinance No. 16-009, Ordinance No. 17-486, and Ordinance No. 22-886 the proposed amendments to the rules and regulations as recommended by the Air Pollution Control Board of the city, entitled "Proposed Amendments to the Rules and Regulations for the Control of Air Pollution within the City of Huntsville, Alabama," and further identified by the signature of the City Clerk and the date of _____, 2025, appearing on the first page, with a copy being kept on file permanently in the office of the City Clerk.

(Ord. No. 03-143, § 1, 4-10-2003; Ord. No. 07-568, § 1, 7-26-2007; Ord. No. 16-009, § 1, 3-10-2016; Ord. No. 17-486, § 1, 8-24-2017; Ord. No. 22-886 § 1)

Section 2. That all ordinances or parts of ordinances in conflict with this ordinance or the Rules and Regulations as herein amended be and the same are hereby repealed.

ADOPTED this the _____ day of _____, 2025

President of the City Council of
the City of Huntsville, Alabama

APPROVED this the _____ day of _____, 2025

Mayor of the City of
Huntsville, Alabama

NOW, THEREFORE, BE IT RESOLVED by the City Council of the City of Huntsville, Alabama, as follows:

1. That the City Council of the City of Huntsville, Alabama, shall meet at 5:30 P.M. on the _____ day of _____ 2024, in the Council Chambers on the second floor of City Hall, 305 Fountain Circle in the City of Huntsville, Alabama, for the purpose of holding a public hearing, at which time and place all parties may appear in person, by agent, or by attorney for the purpose of voicing objections or remonstrance to said amendments and for the purpose of making recommendations concerning the alteration or amendment of such regulations. Written recommendations will also be received by the City Council of the City of Huntsville at any time prior to the close of said hearing.

2. That the following "Notice of Air Pollution Hearing" statement shall be published in the Speakin' Out News, a newspaper of general circulation in the City of Huntsville, once a week for two successive weeks. The first publication to be not less than 30 days prior to the date of said hearing, said notice being substantially in words and figures as follows:

NOTICE OF AIR POLLUTION HEARING
Huntsville City Council
Huntsville, Alabama

(Amendments to the Rules and Regulations for the Control of Air Pollution within the City of Huntsville, Alabama)

The City Council of the City of Huntsville, in compliance with the provisions of the Clean Air Act, as amended (42 U.S.C. 7401, et seq.) and the Alabama Air Pollution Control Act (Act No. 769, Regular Session, 1971), hereby gives notice that a public hearing will be held concerning amendments, revisions, and additions to the rules and regulations governing the prevention, abatement, and control of air pollution within the City of Huntsville, Alabama.

The public hearing, conducted to receive data, views and comments regarding the adoption of said proposed revisions to the rules and regulations, will be held before the City Council of the City of Huntsville, Alabama beginning at 5:30 P.M., on the _____ day of _____ 2024 in the Council Chambers on the second floor of City Hall, 305 Fountain Circle in the City of Huntsville, Alabama. Such hearing shall be open to the public, and reasonable opportunity to be heard shall be afforded to any person. All testimony taken before the hearing shall be recorded stenographically. The transcript so recorded, and any written submissions to the City Council in relation to such hearing, shall be open to public inspection in the office of the City Clerk of the City of Huntsville, Alabama, on the third floor of City Hall, 305 Fountain Circle in the City of Huntsville, Alabama, Monday through Friday, 8:00 A.M. to 4:30 P.M. local time.

Any person wishing to be heard at the hearing should so signify to the City Council, either at the hearing or by writing the President of the City Council at P.O. Box 308, Huntsville, Alabama 35804. In announcing this hearing the City Council wishes to emphasize that it will not be necessary for interested persons to appear at the hearing to communicate their views to the City Council. Written submissions are especially invited and should be addressed to the President of

the City Council at the above address. All relevant data, views and comments received by the President of the City Council not later than 5:00 P.M., local time _____, 2024, will be made a part of the Hearing Record and will be considered in the adoption of such proposed revisions to rules and regulations.

Three copies of the proposed amendments to the rules and regulations as recommended by the Air Pollution Control Board of the City of Huntsville, together with summaries of the reasons supporting their adoption, shall be on file in the office of the City Clerk of the City of Huntsville, Alabama, beginning on the _____ day of _____, 2024, and continuing until such public hearing has been held, and said copies shall be made available by the City Clerk of the City of Huntsville to any person upon request, at all reasonable hours.

ADOPTED this the _____ day of _____, 2024

_____
President of the City Council
City of Huntsville, Alabama

APPROVED this the _____ day of _____, 2024

_____
Mayor of the City of Huntsville,
Alabama

Summary of Reasons Supporting the Adoption of the Proposed Amendments to the City of Huntsville Air Pollution Control Rules & Regulations

The Air Pollution Control Rules and Regulations for the City of Huntsville must be updated periodically to maintain consistency between the Local Air Pollution Control Program and Federal and State Law. Local requirements must be at least as stringent as corresponding provisions of Federal and State regulations.

Proposed revisions to the Air Pollution Control Rules and Regulations would make minor changes to Chapter 1. Specifically, they would revise the definition of volatile organic compounds (VOC) in Part 1.1. A proposed amendment to Chapter 3 would eliminate Section 3.3.8 "Exceptions to Violations of Emission Limits," which included an affirmative defense for emissions limitations violations resulting from an emergency. Similar provisions were removed from ADEM regulations in 2023. Other changes to Chapter 3 include clarifying language in Section 3.4.4 – "Offset Standards" regarding emissions credits, and in Section 3.5.10 – "Sources Impacting Federal Class I Areas" regarding Class I Variances. Finally, a proposed amendment to Section 3.7.4 – "Fee Schedule" explicitly states that nitrous oxide, which is also regulated as an oxide of nitrogen, is the only greenhouse gas subject to major source annual emissions fees.

Proposed revisions to Chapter 13 and Chapter 14 would incorporate amendments to existing New Source Performance Standards (NSPS) and National Emission Standards for Hazardous Air Pollutants (NESHAP), and adopt standards promulgated by EPA since Huntsville's regulations were last updated.

Chapter 1 – General Provisions – Amend the regulatory definition of VOC (Volatile Organic Compounds) to add trans-1,1,1,4,4,4-hexafluorobut-2-ene *(HFO–1336mzz(E))* to the list of compounds that are negligibly photochemically reactive and therefore make negligible contributions to tropospheric ozone formation.

Chapter 3 – Permits – Delete Section 3.3.8 – "Exceptions to Violations of Emission Limits," which provides an affirmative defense for emission limits violations caused by an emergency under certain circumstances. Amend Section 3.4.4 – "Offset Standards," to clarify that substitution of photochemically reactive volatile organic compounds with photochemically non-reactive volatile organic compounds may qualify for emissions credits in Non-Attainment Areas. Language is being proposed in Section 3.5.10 – "Sources Impacting Federal Class I Areas – Additional Requirements" in the paragraph dealing with "Class I Variances" to clarify that maximum allowable increases permissible in ambient pollutant concentrations are relative to minor source baseline concentrations. Finally, a proposed change to Section 3.7.4 would explicitly state that the only greenhouse gas subject to major source operating permit annual emission fees is nitrous oxide, which is also regulated as an oxide of nitrogen.

Chapter 13 – Standards of Performance for New Stationary Sources – Federal NSPS (New Source Performance Standards) are incorporated into Huntsville's regulations by reference. The proposed amendments would update the citations in Section 13.1.1 to incorporate the most recent codified Federal Rules, and would adopt several NSPS recently promulgated by EPA.

Chapter 14 – Emission Standards for Hazardous Air Pollutants - Federal NESHAP (National Emission Standards for Hazardous Air Pollutants) are incorporated into Huntsville's regulations by reference. The proposed amendments would update the citations in Section 14.1.1 to incorporate the most recent codified Federal Rules, and would adopt NESHAP not yet incorporated into Huntsville's regulations.

Chapter 18 – Control of Municipal Solid Waste Landfill Gas Emissions – Amendments to Chapter 18 would correct several rule citations and would clarify that certain approvals for alternate monitoring methods must be approved by EPA rather than the Director of the Department of Natural Resources & Environmental Management. Specific changes include the addition of the definition of "Administrator" in Part 18.1, and correction of rule citations in paragraph 18.3.1(c) (18.3.1 – "Standards for Air Emissions from Existing Municipal Solid Waste Landfills," paragraph (c) "Design Capacity"), and in subparagraph 18.3.3(a)(3) (18.3.3 – "Test Methods and Procedures," subparagraph (a)(3) – "Tier 2"). Changes to Sections 18.3.4 ("Compliance Provisions" and 18.3.7 ("Recordkeeping Requirements") would substitute the Term "Administrator" for "Director" to make it clear that EPA must approve certain alternative test methods and procedures before they can be utilized in lieu of those included in Section 18.3.3.

Index of changes to the Air Pollution Control Rules & Regulations

Page	Rule	Proposed Changes
	Chapter 1- General Provisions	
5	Part 1.3	Revision to the definition of Volatile Organic Compounds (VOC) for consistency with Federal and State Regulations.
	Chapter 3 – Permits	
9	Part 3.3 (Section 3.3.8)	Delete Section 3.3.8 – "Exceptions to Violations of Emission Limits."
11	Part 3.4 (Section 3.4.4)	Amend Section 3.4.4 – "Offset Standards" to clarify that substitution of non-photochemically reactive volatile organic compounds (VOC) for photochemically reactive VOC may qualify for emission s credit in non-attainment areas.
11	Part 3.5 (Section 3.5.10)	Amend Section 3.5.10 – "Sources Impacting Federal Class I Areas – Additional Requirements" to clarify that maximum allowable increases in ambient pollutant concentrations permissible under a Class I Variance are relative to minor source baseline concentrations.
12	Part 3.7 (Section 7.7.4)	Amend Section 3.7.4 – "Fee Schedule" to explicitly state that the only greenhouse gas subject to major source operating permit fees is nitrous oxide, which is also regulated as an oxide of nitrogen.
	Chapter 13 – Standards of Performance for New Stationary Sources (NSPS)	
15	Part 13.1	Update Rule citation in 13.1.1 and incorporate by reference amendments to NSPS.
15	Part 13.2	Adopt recently promulgated NSPS: Subpart La – Secondary Lead Smelters Constructed After December 1, 2022. Subpart AAb – Steel Plants: Electric Arc Furnaces Constructed After May 16, 2022. Subpart KKa – Lead Acid Battery Plants Constructed After February 23, 2023.

		Subpart VVb – Equipment Leaks of VOC in SOCMI Constructed After April 25, 2023. Subpart MMa – Automobile Surface Coating Operations Constructed After May 18, 2022. Subpart XXa - Bulk Gasoline Terminals Constructed After June 10, 2022. Subpart IIIa – SOCMI Air Oxidation Processes Constructed After April 25, 2023. Subpart NNNa – SOCMI Distillation Operations Constructed After April 25, 2023. Subpart RRRa – SOCMI Reactor Processes Constructed After April 25, 2023. Subpart TTTa – Surface Coating of Business Machine Plastic Parts Constructed After June 21, 2022. Subpart OOOOb – Crude Oil and Natural Gas Facilities Constructed After December 6, 2022. Subpart TTTTa – Greenhouse Gas Emissions for Electric Generating Units: Modified Coal-fired and New or Reconstructed Combustion Turbines.
	Chapter 14 – Emissions Standards For Hazardous Air Pollutants (NESHAPS)	
23	Part 14.1	Update Rule citation in 14.1.1 and incorporate by reference amendments to NESHAP.
23	Part 14.5	Adopt NESHAP not yet incorporated into COHRAR: Subpart LL – Primary Aluminum Reduction Plants. Subpart NN - Wool Fiberglass Manufacturing at Area Sources.
	Chapter 18 – Control of Municipal Solid Waste Landfill Gas Emissions	
40	Part 18.1	Add the definition of "Administrator"
40	Part 18.3	Correct rule citations in 18.3.1(c) and 18.3.3(a)(3) Replace "Director" with "Administrator" in Sections 18.3.4 and 18.3.7.

CHAPTER 1. GENERAL PROVISIONS

1.3 Definitions. As used in these rules and regulations, terms shall have the meanings ascribed in this part. (amended September 8, 2011)

"Volatile Organic Compound (VOC)" shall mean any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such organic compound other than the following:

Methane;

Ethane;

Methyl Chloroform (1,1,1-Trichloroethane);

Methylene Chloride (Dichloromethane);

CFC-11 (Trichlorofluoromethane);

CFC-12 (Dichlorodifluoromethane);

HCFC-22 (Chlorodifluoromethane);

HFC-23 (Trifluoromethane);

CFC-114 (1,2-dichloro 1,1,2,2-Tetrafluoroethane);

CFC-115 (Chloropentafluoroethane);

HCFC-123 (1,1,1-Trifluoro-2,2-dichlororethane);

HCFC-124 (2-Chloro-1,1,1,2-tetrafluoroethane);

HFC-125 (Pentafluoroethane);

HFC-134 (1,1,2,2-Tetrafluoroethane);

HFC-134a (1,1,1,2-Tetrafluoroethane);

HCFC-141b (1,1-Dichloro-1-fluoroethane);

HCFC-142b (1-Chloro-1,1-difluoroethane);

HFC-143a (1,1,1-Trifluoroethane);

HFC-152a (1,1-Difluoroethane);

CFC-113 (1,1,2-Trichloro-1,2,2-Trifluoroethane);

Parachlorobenzotrifluoride (PCBTF);

Cyclic, branched, or linear completely methylated siloxanes;

Acetone;

Perchloroethylene (tetrachloroethylene);

HCFC-225ca (3,3-dichloro-1,1,1,2,2-pentafluoropropane);

HCFC-225cb (1,3-dichloro-1,1,2,2,3-pentafluoropropane);

HFC-43-10mee (1,1,1,2,3,4,4,5,5,5- decafluoropentane);

HFC-32 (Difluoromethane);

HFC-161 (Ethylfluoride);

HFC-236fa (1,1,1,3,3,3-Hexafluoropropane);

HFC-245ca (1,1,2,2,3-Pentafluoropropane);

HFC-245ea (1,1,2,3,3-Pentafluoropropane);

HFC-245eb (1,1,1,2,3-Pentafluoropropane);

HFC-245fa (1,1,1,3,3-Pentafluoropropane);

HFC-236ea (1,1,1,2,3,3-Hexafluoropropane);

HFC-365mfc (1,1,1,3,3-Pentaflurorobutane);

HCFC-31 (Chlorofluoromethane);

HCFC-123a (1,2-Dichloro-1,1,2-trifluoroethane);

HCFC-151a (1-Chloro-1-fluoroethane);

$C_4F_9OCH_3$ (1,1,1,2,2,3,3,4,4-Nonafluoro-4-methoxybutane);

$(CF_3)_2CFCF_2OCH_3$ (2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane);

$C_4F_9OC_2H_5$ (1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane);

$(CF_3)_2CFCF_2OC_2H_5$ (2-Ethoxydifluoromethyl) -
1,1,1,2,3,3,3-heptafluoropropane);

Methyl Acetate;

HFE-7000 (n-$C_3F_7OCH_3$, 1,1,1,2,2,3,3,-heptafluoro-3
methoxy-propane);

HFE-7500 (3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6
dodecafluoro-2-(trifluoromethyl) hexane);

HFC-227ea (1,1,1,2,3,3,3,-heptafluoropropane);

Methyl formate ($HCOOCH_3$);

1,1,1,2,2,3,4,5,5,5,- decafluoro-3-methoxy-4-
trifluoromethyl- pentane (HFE- 7300);

propylene carbonate;

dimethyl carbonate;

trans-1,3,3,3-tetrafluoropropene;

HFE-134 (HCF_2OCF_2H);

HFE-236cal2 ($HCF_2OCF_2OCF_2H$);

HFE-338pcc13 ($HCF_2OCF_2CF_2OCF_2H$);

H-Galden 1040x or H-Galden ZT130 (or 150 or 180)
($HCF_2OCF_2OCF_2CF_2OCF_2H$);

Trans 1-chloro-3,3,3-trifluoroprop-1-ene (SolsticeTM
1233zd(E));

HFO-1234yf (2,3,3,3-tetrafluoropropene);

2-amino-2-methyl-1-propanol;

t-butyl acetate;

1,1,2,2-Tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane;

cis- 1,1,1,4,4,4-hexafluorobut-2-ene (HFO-1336mzz-Z);

trans-1,1,1,4,4,4-hexafluorobut-2-ene *(HFO-*

1336mzz(E));

and

Perfluorocarbon compounds which fall into these four classes –

(1) Cyclic, branched, or linear completely fluorinated alkanes,

(2) Cyclic, branched, or linear completely fluorinated ethers with no unsaturations,

(3) Cyclic, branched, or linear completely fluorinated tertiary amines with no unsaturations,

(4) sulfur containing perfluorcarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

The heretofore mentioned excluded organic compounds have been determined to have negligible photochemical reactivity by the EPA Administrator. For purposes of determining compliance with emission limits under Chapter 8, VOC shall be measured by the approved test methods contained in Chapter 8. Where such a method also inadvertently measures the heretofore mentioned negligibly photochemical reactive organic compounds with the reactive organic compounds, an owner or operator may exclude these negligibly reactive compounds when determining compliance with an emission limit using EPA-approved test methods and procedures. (amended ~~December 15, 2022)~~ _____,2024.

CHAPTER 3. PERMITS (Amended March 26, 1998)

3.3 Standards for Granting Permits. (amended September 8, 2011)

3.3.8 Reserved. (amended , 2024) ~~Exceptions to Violations of Emission Limits.(amended March 24, 1994)~~

~~(a) The Director may, in the permit, exempt on a case by case basis any exceedances of emission limits or permit conditions which cannot reasonably be avoided, such as during periods of start-up, shut-down, and load change. For emission limits established by federal rules (e.g. NSPS, NESHAP, and MACT), exemptions may be granted only where provisions for such exemptions are contained in the applicable rule or its general provisions. (Amended November 9, 2000)~~

~~(b) Emergency Provision.~~

~~(1) An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God. These are situations that require immediate corrective action(s) to restore normal operation, and that cause the facility to exceed a technology based emission limitation set by the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include exceedances of the permit emission limitations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.~~

~~(2) Exceedances of emissions limitations during emergencies at a facility may be exempted as being violations provided that:~~

~~(i) the permittee identifies the cause(s) of the emergency;~~

~~(ii) the permitted facility was being properly operated until such a time as the emergency occurred;~~

~~(iii) during the period of which the emergency occurred, the permittee took all reasonable steps to minimize levels of emissions that exceeded the standards, or other requirements of the permit;~~

~~(iv) the permittee submitted notice of the emergency to the Department within two (2) working days of the time when the emissions limitations were exceeded as a result of the emergency. This notice must include a description of the emergency, any steps taken to mitigate 3 - 22 emissions, and corrective actions taken. Within five (5) working days of the emergency, written documentation of the facts reported in the notice of the emergency shall be submitted to the Director; and~~

~~(v) The permittee immediately documented the emergency exceedance in an "Emergency Log", which shall be maintained for 5 years in a form suitable for inspection upon request by the Director. (3) The Director shall be the determiner of whether an emergency has occurred. (4) This provision is in addition to any emergency or upset provision contained in any applicable requirement. (5) An emergency shall constitute an affirmative defense. (amended November 9, 2000).~~

3.4 Air Permits Authorizing Construction in or Near Nonattainment Areas. (amended September 8, 2011)

3.4.4 Offset Standards

(e) No emissions credit may be allowed for replacing one hydrocarbon compound with another of lesser reactivity, except that emissions credit may be allowed for the replacement with those compounds listed as having negligible photochemical reactivity in 40 CFR 51.100(s). ~~for those compounds listed in Table 1 of EPA's "Recommended Policy on Control of Volatile Organic Compounds" (42 FR 35314, July 8, 1977; (This document is also available from the Office of Air Quality Planning and Standards, (MD-15) Research Triangle Park, NC 27711.))~~ (amended , 2024)

3.5 Air Permits Authorizing Construction in Clean Air Areas. (Prevention of Significant Deterioration Permitting (PSD)) (amended September 8, 2011)

3.5.10 Sources Impacting Federal Class I Areas - Additional Requirements. (amended January 25, 1996)

(e) Class I Variances. The owner or operator of a proposed source or modification may demonstrate to the Federal Land Manager that the emissions from such source or modification would have no adverse impact on the air quality related values of any such lands (including visibility), notwithstanding that the change in air quality resulting from emissions from such source or modification would cause or contribute to concentrations which would exceed the maximum allowable increases for a Class I area. If the Federal Land Manager concurs with such demonstration and he so certifies, the Director may issue the permit with such emission limitations as may be necessary to assure that emissions of sulfur dioxide,

PM2.5 PM10, and nitrogen oxides would not exceed the following maximum allowable increases over minor source baseline concentration for such pollutants:

Pollutant	Maximum Allowable Increase (micrograms per cubic meter)	
PM10:	Annual arithmetic mean	17
	24-hour maximum	30
PM2.5:	Annual arithmetic mean	4
	24-hour maximum	9
Sulfur Dioxide:	Annual arithmetic mean	20
	24-hour maximum	91
	3-hour maximum	325
Nitrogen Dioxide:	Annual arithmetic mean	25

provided that the applicable requirements of this Part are otherwise met.

3.7 Major Source Operating Permit Annual Emissions Fees.

3.7.4 Fee Schedule. (amended ~~December 15, 2022~~ ,2024)

(a) Major sources which have actual emissions of 1000 tons or more per year of an affected pollutant in the calendar years 1991, 1992, and 1993 shall pay permit fees according to Schedule A of this Part for pollutants

which are limited by regulation or by a permit condition developed pursuant to these requirements.

(b) Major sources which have actual emissions of 100 tons or more per year but less than 1000 tons per year of an affected pollutant in the calendar years 1992 and 1993 shall pay permit fees according to Schedule B of this Section for pollutants which are limited by regulation or by a permit condition developed pursuant to these requirements.

(c) Beginning in the calendar year 1995, fees will be due on May 1st for every source subject to this Part at the rate of $25 per ton plus the difference in the CPI of the year the fees were assessed and the CPI of 1989 for each regulated air pollutant, except carbon monoxide, and except greenhouse gases ~~unless a specific greenhouse gas is otherwise included in the definition of "regulated air pollutant" in Section 3.1.1~~ other than nitrous oxide, which is also regulated as a nitrogen oxide, for the actual emissions during the calendar year 1994. Each subsequent year, fees will be due May 1st for the emissions of regulated air pollutants during the preceding calendar year.

(d) Emissions from a major source of any pollutant subject to fees in this part which are emitted at a rate greater than 4000 tons per year shall be defined as 4000 tons per year for the purposes of assessing fees for each said pollutant.

(e) Emissions of a regulated air pollutant shall not be counted more than once in determining fees.

(f) In the event the annual emissions fees which would be due from a source subject to this Part are less than $500 under the requirements of Paragraph 3.7.4(c)

above, the fees which are actually due shall be $500, except those facilities which are covered only by a General Permit issued pursuant to Section 3.9.7 of this Part. For facilities which are subject only to such General Permitting requirements, and for which the annual emissions fees are less than $250 under the requirements of Paragraph 3.7.4(c) above, the fees which are actually due shall be $250.

(g) In the event there is a conflict between Alabama State Law or the regulations promulgated thereto and the fee structure provided in this Part, the fee structure established under State law shall take precedence. (adopted November 9, 2000).

CHAPTER 13. STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (Amended August 24, 2017)

13.1 General.

13.1.1 The Environmental Protection Agency Regulations, and the appendices applicable thereto, governing Standards of Performance for New Stationary Sources (40 CFR Part 60, and Appendices) designated in Part 13.2 are incorporated by reference as they exist in 40 CFR 60 (July 1, ~~2021~~ 2024), as amended by the word or phrase substitutions given in Part 13.3. References for specific documents containing the complete text of subject regulations are given in Appendix A to these regulations. (Amended ~~December 15, 2022)~~ ,2024)

[NOTE: The standards pertaining to the Consolidated Federal Air Rule are located in Chapter 15.]

13.2 Designated Standards of Performance.

Subpart A - General Provisions.

Subpart D - Fossil Fuel-Fired Steam Generators for which construction is commenced after August 17, 1971.

Subpart Da - Electric Utility Steam Generating Units for which construction is commenced after September 18, 1978.

Subpart Db - Industrial - Commercial - Institutional Steam Generating Units.

Subpart Dc - Small Industrial-Commercial-Institutional Steam Generating Units.

Subpart E - Incinerators.

Subpart Ea - Municipal Waste Combustors for which

construction is commenced after December 20, 1989 and on or before September 20, 1994.

Subpart Eb - Municipal Waste Combustors for which construction is commenced after September 20, 1994.

Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for which construction is commenced after June 20, 1996.

Subpart F - Portland Cement Plants.

Subpart G - Nitric Acid Plants.

Subpart Ga - Nitric Acid Plants for which construction, reconstruction, or modification commenced after October 14, 2011.

Subpart H - Sulfuric Acid Plants.

Subpart I - Asphalt Concrete Plants.

Subpart J - Petroleum Refineries.

Subpart Ja - Petroleum Refineries for which construction, reconstruction, or modification commenced after May 14, 2007.

Subpart K - Storage Vessels for Petroleum Liquids constructed after June 11, 1973, and prior to May 19, 1978.

Subpart Ka - Storage Vessels for Petroleum Liquids constructed after May 18, 1978, and prior to July 23, 1984.

Subpart Kb - Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Subpart L - Secondary Lead Smelters.

Subpart La - Secondary Lead Smelters for Which Construction, Reconstruction, or Modification Commenced After December 1, 2022.

Subpart M - Secondary Brass and Bronze Ingot Production Plants.

Subpart N - Primary Emissions from Basic Oxygen Process Furnaces for which construction is commenced after June 11, 1973.

Subpart Na - Standards of Performance for Secondary Emissions from Basic Oxygen Process Steelmaking Facilities for which construction is commenced after January 20, 1983.

Subpart O - Sewage Treatment Plants.

Subpart P - Primary Copper Smelters.

Subpart Q - Primary Zinc Smelters.

Subpart R - Primary Lead Smelters.

Subpart S - Primary Aluminum Reduction Plants.

Subpart T - Wet Process Phosphoric Acid Plants.

Subpart U - Superphosphoric Acid Plants.

Subpart V - Diammonium Phosphate Plants.

Subpart W - Triple Superphosphate Plants.

Subpart X - Granular Triple Superphosphate Storage Facilities.

Subpart Y - Coal Preparation Plants.

Subpart Z - Ferroalloy Production Facilities.

Subpart AA - Steel Plants (Electric arc furnaces and dust-handling equipment).

Subpart AAa - Steel Plants: Electric Arc Furnaces and Argon Oxygen - Decarburization Vessels constructed after August 7, 1983 and on or Before May 16, 2022.

Subpart AAb - Steel Plants: Electric Arc Furnaces and

Argon-Oxygen Decarburization Vessels Constructed After May 16, 2022.

Subpart BB - Kraft Pulp Mills.

Subpart BBa – Standards of Performance for Kraft Pulp Mill affected sources for which construction, reconstruction, or modification commenced after May 23, 2013.

Subpart CC - Standards of Performance for Glass Manufacturing Plants.

Subpart DD - Grain Elevators.

Subpart EE - Surface Coating of Metal Furniture.

Subpart GG - Stationary Gas Turbines.

Subpart HH - Lime Manufacturing Plants.

Subpart KK - Lead-Acid Battery Manufacture.

Subpart KKa – Lead Acid Battery Manufacturing Plants for Which Construction, Modification or Reconstruction Commenced After February 23, 2022.

Subpart LL - Metallic Mineral Processing Plants.

Subpart MM - Automobile and Light-Duty Truck Surface Coating Operations.

Subpart MMa – Automobile and Light Duty Truck Surface Coating Operations for which Construction, Modification or Reconstruction Commenced After May 18, 2022.

Subpart NN - Phosphate Rock Plants.

Subpart PP - Ammonium Sulfate Manufacturing.

Subpart QQ - Graphic Arts Industry: Publication Rotogravure Printing.

Subpart RR - Pressure Sensitive Tape and Label Surface Coating Industry.

Subpart SS - Industrial Surface Coating - Large Appliances.

Subpart TT - Metal Coil Surface Coating Operations.

Subpart UU - Asphalt Processing and Asphalt Roofing Manufacture.

Subpart VV - Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, for which construction, reconstruction, or modification commenced after January 5, 1981, and on or before November 7, 2006.

Subpart VVa - Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which construction, reconstruction, or modification commenced after November 7, 2006 and on or Before April 25, 2023.

Subpart VVb - Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart WW - Beverage Can Surface Coating Industry.

Subpart XX - Bulk Gasoline Terminals.

Subpart XXa - Bulk Gasoline Terminals that Commenced Construction, Modification or Reconstruction After June 10, 2022.

Subpart BBB - Rubber Tire Manufacturing Industry.

Subpart DDD - Volatile Organic Compound Emissions from the Polymer Manufacturing Industry.

Subpart FFF - Flexible Vinyl and Urethane Coating and Printing.

Subpart GGG - Equipment Leaks of VOC in Petroleum Refineries for which construction, reconstruction, or modification commenced after January 4, 1983, and on or before November 7, 2006.

Subpart GGGa - Equipment Leaks of VOC in Petroleum

Refineries for which construction, reconstruction, or modification commenced after November 7, 2006.

Subpart HHH - Synthetic Fiber Production Facilities.

Subpart III - VOC Emissions from SOCMI Air Oxidation Unit Processes.

Subpart IIIa - VOC Emissions from SOCMI Air Oxidation Unit Processes for Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart JJJ - Petroleum Dry Cleaners.

Subpart KKK - Equipment Leaks of VOC from On-shore Natural Gas Processing Plants for which Construction, Reconstruction, or Modification Commenced after January 20, 1984, and on or before August 23, 2011.

Subpart LLL - Standards of Performance for On-shore Natural Gas Processing for which Construction, Reconstruction, or Modification Commenced after January 20, 1984 and on or before August 23, 2011: SO2 Emissions.

Subpart NNN - VOC Emissions from SOCMI Distillation Operations.

Subpart NNNa - VOC Emissions from SOCMI Distillation Operations for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart OOO - Nonmetallic Mineral Processing Plants.

Subpart PPP - Wool Fiberglass Insulation Manufacturing Plants.

Subpart QQQ - VOC Emissions from Petroleum Refinery Wastewater Systems.

Subpart RRR - Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry Reactor Process.

Subpart RRRa - Volatile Organic Compound (VOC) Emissions from SOCMI Reactor Processes for Which Construction, Reconstruction, or Modification Commenced After April 25,

2023.

Subpart SSS - Magnetic Tape Manufacturing Industry.

Subpart TTT - Industrial Surface Coating: Plastic Parts for Business Machines.

Subpart TTTa - Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines for Which Construction, Reconstruction, or Modification Commenced After June 21, 2022.

Subpart UUU- Calciners and Dryers in Mineral Industries.

Subpart VVV - Polymeric Coating of Supporting Substrates.

Subpart WWW - Municipal Waste Landfills.

Subpart XXX - Municipal Solid Waste Landfills that commenced construction, reconstruction, or modification after July 17, 2014.

Subpart AAAA - Small Municipal Waste Combustion Units for which construction is commenced after August 30, 1999 or for which modification or reconstruction is commenced After June 6, 2001.

Subpart CCCC - Commercial and Industrial Solid Waste Incineration Units for which construction is commenced after June 4, 2010 or for which modification or reconstruction is commenced on or after August 7, 2013.

Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or after June 16, 2006.

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

Subpart JJJJ - Stationary Spark Ignition Internal Combustion Engines.

Subpart KKKK - Standards of Performance for Stationary

Combustion Turbines

Subpart LLLL - New Sewage Sludge Incineration Units.

Subpart OOOO - Crude Oil and Natural Gas Production, Transmission and Distribution.

Subpart OOOOa - Crude Oil and Natural Gas Facilities for which construction, modification, or reconstruction commenced after September 18, 2015 and On or Before December 6, 2022.

Subpart OOOOb - Crude Oil and Natural Gas Facilities for which construction, modification, or reconstruction commenced after December 6, 2022.

Subpart TTTT - Greenhouse Gas Emissions from Electric Generating Units.

Subpart TTTTa - Greenhouse Gas Emissions from Modified Coal-Fired Steam Electric Generating Units and New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units.

CHAPTER 14. EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (Amended August 24, 2017)

14.1 General.

14.1.1 The Environmental Protection Agency Regulations, and the Appendices applicable thereto, governing Hazardous Air Pollutants, 40 CFR, Part 61 and Appendices designated in Part 14.2 and 40 CFR Part 63, and Appendices designated in Part 14.5 are incorporated by reference as they exist in 40 CFR Part 61 (July 1, ~~2021~~ 2024), and 40 CFR Part 63 (July 1, ~~2021~~ 2024), as amended by the word or phrase substitutions given in Part 14.3. References for specific documents containing the complete text of subject regulations are given in Appendix A to these Regulations. (Amended ~~December 15, 2022)~~ _____, 2024)

[NOTE: The standards pertaining to the Consolidated Federal Air Rule are located in Chapter 15.]

14.5 National Emission Standards for Hazardous Air Pollutants for Source Categories.

Subpart A - General Provisions

Subpart B - Requirements for Control Technology Determinations for Major Sources in accordance with Clean Air Act Sections 112(g) and 112(j).

[Note: The requirements for implementation of §112(g) are found in Part 3.10]

Subpart D - Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air Pollutants.

Subpart F - National Emission standards for Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry.

Subpart G - National Emission Standards for Organic Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

Subpart I - National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks.

Subpart L - National Emission Standards for Coke Oven Batteries.

Subpart M - National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities.

Subpart N - National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities.

Subpart Q - National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers.

Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations).

Subpart S - National Emission Standards for Hazardous Air Pollutants for Pulp and Paper Productions

Subpart T - National Emission Standards for Halogenated Solvent Cleaning.

Subpart U - National Emission Standards for Hazardous Air Pollutant emission: Group I Polymers and Resins.

Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production.

Subpart X - National Emission Standards for Secondary Lead Smelting.

Subpart AA - National Emission Standards for Hazardous Air Pollutants From Phosphoric Acid Manufacturing Plants.

Subpart BB - National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants.

Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries.

Subpart DD - National Emissions Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations.

Subpart EE - National Emission Standards for Magnetic Tape Manufacturing Operations.

Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities.

Subpart HH - National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities.

Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating) Operations.

Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations.

Subpart KK - National Emissions Standards for the Printing and Publishing Industry.

Subpart LL - National Emission Standards for Primary Aluminum Reduction Plants.

Subpart MM - National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite and Stand-alone Semichemical Pulp and Paper Mills.

Subpart NN - National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing at Area Sources.

Subpart OO - National Emission Standards for Tanks Level 1.

Subpart PP - National Emission Standards for Containers.

Subpart QQ - National Emission Standards for Surface Impoundments.

Subpart RR - National Emission standards for Individual Drain Systems.

Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, and Routing to a Fuel Gas System or a Process.

Subpart TT - National Emission Standards for Equipment Leaks - Control Level 1.

Subpart UU - National Emission Standards for Equipment Leaks - Control Level 2 Standards.

Subpart VV - National Emission Standards for Oil - Water Separators and Organic - Water Separators.

Subpart WW - National Emission Standards for Hazardous Air Pollutants for Storage Vessels (Tanks) - Control Level 2.

Subpart XX - National Emission Standards for Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations.

Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards.

Subpart CCC - National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants.

Subpart DDD - National Emission Standards for Hazardous Air Pollutants for Mineral Wool Production.

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors.

Subpart GGG - National Emission Standards for Hazardous Air Pollutants for Source Categories: Pharmaceuticals Production.

Subpart HHH - National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities.

Subpart III - National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production.

Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions; Group IV Polymers and Resins.

Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

Subpart MMM - National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.

Subpart NNN - National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing.

Subpart OOO - National Emission Standards for Hazardous Air Pollutants for Amino/Phenolic Resins Production.

Subpart PPP - National Emission Standards for Hazardous Air Pollutants for Polyether Polyols Production.

Subpart QQQ - National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting.

Subpart RRR - National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production.

Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

Subpart VVV - National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works.

Subpart XXX - National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese.

Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills.

Subpart CCCC - National Emission Standards for Hazardous Air Pollutants for manufacturing of Nutritional Yeast.

Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

Subpart EEEE - National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline).

Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for Solvent Extraction for Vegetable Oil Production.

Subpart HHHH - National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production.

Subpart IIII - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light Duty Trucks.

Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and other Web Coating.

Subpart KKKK - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Cans.

Subpart MMMM - National Emission Standards for Hazardous Air Pollutants: for Surface Coating of Miscellaneous Metal Parts and Products.

Subpart NNNN - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances.

Subpart OOOO - National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles.

Subpart PPPP - National Emission Standards for Hazardous Air Pollutants for the Surface Coating of Plastic Parts and Products.

Subpart QQQQ - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Subpart RRRR - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture.

Subpart SSSS - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil.

Subpart TTTT - National Emission Standards for Hazardous Air Pollutants for Leather Finishing Operations.

Subpart UUUU - National Emission Standards for Hazardous Air Pollutants for Cellulose Products manufacturing.

Subpart VVVV - National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing.

Subpart WWWW - National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production.

Subpart XXXX - National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.

Subpart YYYY - National Emission Standards for Hazardous Air Pollutants: Stationary Combustion Turbines.

Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

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

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks.

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Subpart EEEEE - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries.

Subpart FFFFF - National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities.

Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation.

Subpart HHHHH - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing.

Subpart IIIII - National Emission Standards for Hazardous Air Pollutants: Mercury Emissions from Mercury Cell Chlor-Alkali Plants.

Subpart JJJJJ - National Emission Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing.

Subpart KKKKK - National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing.

Subpart LLLLL - National Emission Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing.

Subpart MMMMM - National Emission Standards for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations.

Subpart NNNNN - National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production.

Subpart PPPPP - National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards.

Subpart QQQQQ - National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities.

Subpart RRRRR - National Emission Standards for Hazardous Air Pollutants: Taconite Iron Ore Processing.

Subpart SSSSS - National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing.

Subpart TTTTT - National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining.

Subpart UUUUU - National Emission Standards for Hazardous Air Pollutants for Coal- and Oil-Fired Electric Utility Steam Generating Units.

Subpart WWWWW - National Emission Standards for Hazardous Air Pollutants for Hospital Ethylene Oxide Sterilizers.

Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities.

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources.

Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Distribution Bulk Terminals, Bulk Plants & Pipeline Facilities.

Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

Subpart DDDDDD - National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources.

Subpart EEEEEE - National Emissions Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources.

Subpart FFFFFF - National Emissions Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources.

Subpart GGGGGG - National Emissions Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources - Zinc, Cadmium, and Beryllium.

Subpart HHHHHH - National Emissions Standards for Hazardous Air Pollutants: Paint Stripping & Miscellaneous Surface Coating Operations at Area Sources.

Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources.

Subpart LLLLLL - National Emissions Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources.

Subpart MMMMMM - National Emissions Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources.

Subpart NNNNNN - National Emissions Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds.

Subpart OOOOOO - National Emissions Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources.

Subpart PPPPPP - National Emissions Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources.

Subpart QQQQQQ - National Emissions Standards for Hazardous Air Pollutants for Wood Preserving Area Sources.

Subpart RRRRRR - National Emissions Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources.

Subpart SSSSSS - National Emissions Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources.

Subpart TTTTTT - National Emissions Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources.

Subpart VVVVVV - National Emissions Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources.

Subpart WWWWWW - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations.

Subpart XXXXXX - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.

Subpart YYYYYY - National Emissions Standards for Hazardous Air Pollutants for Ferroalloys Production Facilities Area Sources.

Subpart ZZZZZZ - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries.

Subpart AAAAAAA - National Emissions Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing.

Subpart BBBBBBB - National Emissions Standards for Hazardous Air Pollutants for Area Sources: Chemical Preparations Industry.

Subpart CCCCCCC - National Emissions Standards for Hazardous Air Pollutants for Area Sources: Paint and Allied Products Manufacturing.

Subpart DDDDDDD - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Prepared Feeds Manufacturing.

Subpart HHHHHHH – National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production.

CHAPTER 18. CONTROL OF MUNICIPAL SOLID WASTE LANDFILL GAS EMISSIONS (Amended August 24, 2017)

18.1 Definitions. For the purposes of this Chapter and Part 13.2 Subpart WWW and Subpart XXX only, the following words and phrases, unless a different meaning is plainly required by the content, shall have the following meanings. (amended , 2024)

"Administrator" means the Administrator of the Environmental Protection Agency or his authorized representative.

18.3 Standards for Existing Municipal Solid Waste Landfills.

18.3.1 Standards for Air Emissions from Existing Municipal Solid Waste Landfills.

(c) *Design Capacity* (amended , 2024). Each owner or operator of an MSW landfill having a design capacity less than 2.5 million megagrams by mass or 2.5 million cubic meters by volume shall submit an initial design capacity report to the Director as provided in Paragraph 18.3.6(a) of this Part. The landfill owner or operator may calculate design capacity in either megagrams or cubic meters for comparison with the exemption values. Any density conversions shall be documented and submitted with the report. Submittal of the initial design capacity report shall fulfill the requirements of this Part except as provided for in Subparagraphs ~~(a)~~ (c)(1) and ~~(a)~~(2) below.

(1) The owner or operator shall submit to the Director an amended design capacity report, as provided for in Subparagraph 18.3.6(a)~~(3)~~ (4). [Guidance: Note that if the design capacity increase is the result of a modification, as defined in Part 18.1 of this Chapter, that commenced construction after July 17, 2014, the landfill will become subject to Subpart XXX of these Rules and Regulations (40 CFR 60, Subpart XXX). If the design capacity increase is the result of a change operating practices, density, or some other change that is not a modification as defined in Part 18.1, the landfill remains subject to this Chapter.]

(2) When an increase in the maximum design capacity of a landfill with an initial design capacity less than 2.5 million megagrams or 2.5 million cubic meters results in a revised maximum design capacity equal to or greater than 2.5 million megagrams and 2.5 million cubic meters, the owner or operator shall comply with the provisions of Paragraph (d) below.

18.3.3 Test Methods and Procedures.

(a)(3) Tier 2. (amended _____, 2024) The landfill owner or operator shall determine the site-specific NMOC concentration using the following sampling procedure. The landfill owner or operator shall install at least two sample probes per hectare, evenly distributed over the landfill surface that has retained waste for at least 2 years. If the landfill is larger than 25 hectares in area, only 50 samples are required. The probes should be evenly distributed across the sample area. The sample probes should be located to avoid known areas of nondegradable solid waste. The owner or operator shall collect and analyze one sample of landfill gas from each probe to determine the NMOC concentration using Method 25 or 25C of Appendix A of 40 CFR Part 60. Taking composite samples from different probes into a single cylinder is allowed; however, equal sample volumes shall be taken from each probe. For each composite, the sampling rate, collection times, beginning and ending cylinder vacuums, or alternative volume measurements shall be recorded to verify that composite volumes are equal. Composite sample volumes should not be less than one liter unless evidence can be provided to substantiate the accuracy of smaller volumes. Terminate compositing before the cylinder approaches ambient pressure where measurement accuracy diminishes. If more than the required number of samples is taken, all samples shall be used in the analysis. The landfill owner or operator shall divide the NMOC concentration from Method 25 or 25C by six to convert from C_{NMOC} as carbon to C_{NMOC} as hexane. If the landfill has an active or passive gas removal system in place, Method 25 or 25C samples may be collected from these systems instead of surface probes provided the removal system can be shown to provide sampling as representative as the two sampling probe per hectare requirement. For active collection systems, samples may be collected from the common header pipe. The sample location on the common header pipe shall be before any gas moving, condensate removal, or treatment system equipment. For active collection systems, a minimum of three samples shall be collected from the header pipe.

[NOTE: Test methods found in Appendix A of 40 CFR 60 are incorporated by reference in Chapter 13]

(i) Within 60 days after the date of determining the NMOC concentration and corresponding NMOC emission rate, the owner or operator shall submit the results according to Subparagraph 8.3.6(i)(2) of this Part.

(ii) The landfill owner or operator shall recalculate the NMOC mass emission rate using the equations provided in Subdivision 8.3.3(a)(1)(i) or (a)(1)(ii) using the average site-specific NMOC concentration from the collected samples instead of the default value in the equation provided in Subparagraph 8.3.3(a)(1).

(iii) If the resulting NMOC mass emission rate is less than 34 megagrams per year, the owner or operator shall submit a periodic estimate of the NMOC emissions in an NMOC emission rate report as provided in Subparagraph 18.3.6(b)(1) of this Part and shall recalculate the NMOC mass emission rate annually as required under Paragraphs 8.3.1~~(a) and (b)~~ (d) of this Part. The site-specific NMOC concentration shall be retested every 5 years using the methods specified in this Paragraph.

(iv) If the NMOC mass emission rate as calculated using the Tier 2 site-specific NMOC concentration is equal to or greater than 34 megagrams per year, the owner or operator shall either:

(A) Submit a gas collection and control system design plan within 1 year as specified in Paragraph 8.3.6(c) of this Part, and install and operate a gas collection and control system within 30 months according to Paragraphs 8.3.1(a) and (b) of this Part;

(B) Determine a site-specific methane generation rate constant and recalculate the NMOC emission rate using the site-specific methane generation rate using the Tier 3 procedures specified in Subparagraph 8.3.3(a)(4) of this Paragraph; or

(C) Conduct a surface emission monitoring demonstration using the Tier 4 procedures specified in Subparagraph 8.3.3(a)(6) of this Paragraph.

(e) (amended , 2024). For the performance test required in Subparagraph 18.3.1(b)(2) Method 25 or 25C or Method 18 (Method 25C may be used at the inlet only) shall be used to determine compliance with 98 weight-percent efficiency or the 20 ppmv outlet NMOC concentration level, unless another method to demonstrate compliance has been approved by the ~~Director~~ Administrator as provided by Subparagraph 8.3.6(c)(2). If using Method 18, the minimum list of compounds to be tested shall be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42). Method 3, 3A, or 3C shall be used to determine oxygen for correcting the NMOC concentration as hexane to 3 percent. In cases where the outlet concentration is less than 50 ppm NMOC as carbon (8 ppm NMOC as hexane), Method 25A should be used in place of Method 25. Method 18 may be used in conjunction with Method 25A on a limited basis (compound specific, *e.g.*, methane) or Method 3C may be used to determine methane. The methane as carbon should be subtracted from the Method 25A total hydrocarbon value as carbon to give NMOC concentration as carbon. The landfill owner or operator shall divide the NMOC concentration as carbon by 6 to convert the C_{NMOC} as carbon to C_{NMOC} as hexane. The following equation shall be used to calculate efficiency:

$$\text{Control Efficiency} = (NMOC_{in} - NMOC_{out}) / NMOC_{in}$$

where,

$NMOC_{in}$ = mass of NMOC entering control device

$NMOC_{out}$ = mass of NMOC exiting control device

(1) Within 60 days after the date of completing each performance test (as defined in 40 CFR §60.8), the owner or operator shall submit the results of the performance tests, including any associated fuel analyses, according to Subparagraph 8.3.6(i)(1) of this Part.

18.3.4 Compliance Provisions. (Amended December 15, 2022)

(a) Except as provided in Subparagraph 18.3.6(c)(2) of this Part, the specified methods in Subparagraphs (a)(1) through (a)(6) of this Paragraph shall be used to determine whether the gas collection system is in compliance with Subdivision 18.3.1(b)(2)(ii) of this Part.

(1) For the purposes of calculating the maximum expected gas generation flow rate from the landfill to determine compliance with Subdivision 18.3.1(a)(2)(i) of this Part, one of the following equations shall be used. The k and L_o kinetic factors should be those published in the most recent Compilation of Air Pollutant Emission Factors (AP-42) or other site specific values demonstrated to be appropriate and approved by the ~~Director~~ Administrator. If k has been determined as specified in Subparagraph 18.3.3(a)(4) of this Part, the value of k determined from the test shall be used. A value of no more than 15 years shall be used for the intended use period of the gas mover equipment. The active life of the landfill is the age of the landfill plus the estimated number of years until closure. (amended , 2024)

18.3.7 Recordkeeping Requirements (amended December 15,2022)

(b) Except as provided in Subparagraph 18.3.6(c)(2) of this Part, each owner or operator of a controlled landfill shall keep up-to-date, readily accessible records for the life of the control equipment of the data listed in Subparagraphs (b)(1) through (b)(5) as measured during the initial performance test or compliance determination. Records of subsequent tests or monitoring shall be maintained for a minimum of 5 years. Records of the control device vendor specifications shall be maintained until removal.

(1) Where an owner or operator subject to the provisions of this Chapter seeks to demonstrate compliance with Paragraph 18.3.1(a) of this Part:

(i) The maximum expected gas generation flow rate as calculated in Subparagraph 18.3.4(a)(1) of this Part. The owner or operator may use another method to determine the maximum gas generation flow rate, if the method has been approved by the ~~Director~~ Administrator. (amended , 2024)

Appendix A

Reference Documents

Appendix A

Reference Documents

(Amended ~~August 24, 2017~~ _____, 2024)

ENVIRONMENTAL PROTECTION AGENCY REGULATIONS

REFERENCE DOCUMENTS - INCORPORATED BY

REFERENCE IN CHAPTERS 13 and 14

NEW SOURCE PERFORMANCE STANDARDS

NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

The complete text of all finalized EPA regulations incorporated into these regulations is located in the documents listed below. Amendments, revisions, or clarifications of EPA regulations which have been codified in the CFR, as well as of finalized regulations which have not yet been codified, are not included in this listing and interested parties are advised to consult the Federal Register for such amendments or revisions.

CROSS REFERENCE LISTING

Chapter 13 (Part 13.2)	40 CFR Part 60
Subpart A	Subpart A
Subpart D	Subpart D
Subpart Da	Subpart Da
Subpart Db	Subpart Db

Chapter 13 (Part 13.2)	40 CFR Part 60
Subpart Dc	Subpart Dc
Subpart E	Subpart E
Subpart Ea	Subpart Ea
Subpart Eb	Subpart Eb
Subpart Ec	Subpart Ec
Subpart F	Subpart F
Subpart G	Subpart G
Subpart Ga	Subpart Ga
Subpart H	Subpart H
Subpart I	Subpart I
Subpart J	Subpart J
Subpart Ja	Subpart Ja
Subpart K	Subpart K
Subpart Ka	Subpart Ka
Subpart Kb	Subpart Kb
Subpart L	Subpart L
Subpart La	Subpart La
Subpart M	Subpart M
Subpart N	Subpart N
Subpart Na	Subpart Na
Subpart 0	Subpart 0
Subpart P	Subpart P
Subpart Q	Subpart Q
Subpart R	Subpart R
Subpart S	Subpart S

Subpart T Chapter 13 (Part 13.2)	Subpart T 40 CFR Part 60
Subpart U	Subpart U
Subpart V	Subpart V
Subpart W	Subpart W
Subpart X	Subpart X
Subpart Y	Subpart Y
Subpart Z	Subpart Z
Subpart AA	Subpart AA
Subpart AAa	Subpart AAa
Subpart AAb	Subpart AAb
Subpart BB	Subpart BB
Subpart BBa	Subpart BBa
Subpart CC	Subpart CC
Subpart DD	Subpart DD
Subpart EE	Subpart EE
Subpart GG	Subpart GG
Subpart HH	Subpart HH
Subpart KK	Subpart KK
Subpart KKa	Subpart KKa
Subpart LL	Subpart LL
Subpart MM	Subpart MM
Subpart MMa	Subpart MMa
Subpart NN	Subpart NN
Subpart PP	Subpart PP
Subpart QQ	Subpart QQ
Subpart RR	Subpart RR

Subpart SS	Subpart SS
Chapter 13 (Part 13.2)	40 CFR Part 60
Subpart TT	Subpart TT
Subpart UU	Subpart UU
Subpart VV	Subpart VV
Subpart VVa	Subpart VVa
Subpart VVb	Subpart VVb
Subpart WW	Subpart WW
Subpart XX	Subpart XX
Subpart XXa	Subpart XXa
Subpart BBB	Subpart BBB
Subpart DDD	Subpart DDD
Subpart FFF	Subpart FFF
Subpart GGG	Subpart GGG
Subpart GGGa	Subpart GGGa
Subpart HHH	Subpart HHH
Subpart III	Subpart III
Subpart IIIa	Subpart IIIa
Subpart JJJ	Subpart JJJ
Subpart KKK	Subpart KKK
Subpart LLL	Subpart LLL
Subpart NNN	Subpart NNN
Subpart NNNa	Subpart NNNa
Subpart OOO	Subpart OOO
Subpart PPP	Subpart PPP
Subpart QQQ	Subpart QQQ
Subpart RRR	Subpart RRR

Subpart RRRa	Subpart RRRa
Chapter 13 (Part 13.2)	40 CFR Part 60
Subpart SSS	Subpart SSS
Subpart TTT	Subpart TTT
Subpart TTTa	Subpart TTTa
Subpart UUU	Subpart UUU
Subpart VVV	Subpart VVV
Subpart WWW	Subpart WWW
Subpart XXX	Subpart XXX
Subpart AAAA	Subpart AAAA
Subpart CCCC	Subpart CCCC
Subpart EEEE	Subpart EEEE
Subpart IIII	Subpart IIII
Subpart JJJJ	Subpart JJJJ
Subpart KKKK	Subpart KKKK
Subpart LLLL	Subpart LLLL
Subpart OOOO	Subpart OOOO
Subpart OOOOa	Subpart OOOOa
Subpart OOOOb	Subpart OOOOb
Subpart TTTT	Subpart TTTT
Subpart TTTTa	Subpart TTTTa
Chapter 14 (Part 14.2)	40 CFR Part 61
Subpart A	Subpart A
Subpart C	Subpart C
Subpart D	Subpart D

Subpart E	**Subpart E**
Subpart F	**Subpart F**
Subpart J	**Subpart J**
Subpart L	**Subpart L**
Subpart M	**Subpart M**
Subpart N	**Subpart N**
Subpart O	**Subpart O**
Subpart P	**Subpart P**
Subpart V	**Subpart V**
Subpart Y	**Subpart Y**
Subpart BB	**Subpart BB**
Subpart FF	**Subpart FF**

Chapter 14 (Part 14.5)	**40 CFR Part 63**
~~**Subpart BB**~~	~~**Subpart BB**~~
~~**Subpart FF**~~	~~**Subpart FF**~~
Subpart A	**Subpart A**
Subpart B	**Subpart B**
Subpart D	**Subpart D**
Subpart F	**Subpart F**
Subpart G	**Subpart G**
Subpart H	**Subpart H**
Subpart I	**Subpart I**
Subpart L	**Subpart L**
Subpart M	**Subpart M**
Subpart N	**Subpart N**

Chapter 14 (Part 14.5)	40 CFR Part 63
Subpart O	Subpart O
Subpart Q	Subpart Q
Subpart R	Subpart R
Subpart S	Subpart S
Subpart T	Subpart T
Subpart U	Subpart U
Subpart W	Subpart W
Subpart X	Subpart X
Subpart AA	Subpart AA
Subpart BB	Subpart BB
Subpart CC	Subpart CC
Subpart DD	Subpart DD
Subpart EE	Subpart E
Subpart GG	Subpart GG
Subpart HH	Subpart HH
Subpart II	Subpart II
Subpart JJ	Subpart JJ
Subpart KK	Subpart KK
Subpart LL	Subpart LL
Subpart MM	Subpart MM
Subpart NN	Subpart NN
Subpart OO	Subpart OO
Subpart PP	Subpart PP
Subpart QQ	Subpart QQ
Subpart RR	Subpart RR

Subpart SS	Subpart SS
Chapter 14 (Part 14.5)	40 CFR Part 63
Subpart TT	Subpart TT
Subpart UU	Subpart UU
Subpart VV	Subpart VV
Subpart WW	Subpart WW
Subpart XX	Subpart XX
Subpart YY	Subpart YY
Subpart CCC	Subpart CCC
Subpart DDD	Subpart DDD
Subpart EEE	Subpart EEE
Subpart GGG	Subpart GGG
Subpart HHH	Subpart HHH
Subpart III	Subpart III
Subpart JJJ	Subpart JJJ
Subpart LLL	Subpart LLL
Subpart MMM	Subpart MMM
Subpart NNN	Subpart NNN
Subpart OOO	Subpart OOO
Subpart PPP	Subpart PPP
Subpart QQQ	Subpart QQQ
Subpart RRR	Subpart RRR
Subpart UUU	Subpart UUU
Subpart VVV	Subpart VVV
Subpart XXX	Subpart XXX
Subpart AAAA	Subpart AAAA
Subpart CCCC	Subpart CCCC

Subpart DDDD Chapter 14 (Part 14.5)	Subpart DDDD 40 CFR Part 63
Subpart EEEE	Subpart EEEE
Subpart FFFF	Subpart FFFF
Subpart GGGG	Subpart GGGG
Subpart HHHH	Subpart HHHH
Subpart IIII	Subpart IIII
Subpart JJJJ	Subpart JJJJ
Subpart KKKK	Subpart KKKK
Subpart MMMM	Subpart MMMM
Subpart NNNN	Subpart NNNN
Subpart OOOO	Subpart OOOO
Subpart PPPP	Subpart PPPP
Subpart QQQQ	Subpart QQQQ
Subpart RRRR	Subpart RRRR
Subpart SSSS	Subpart SSSS
Subpart TTTT	Subpart TTTT
Subpart UUUU	Subpart UUUU
Subpart VVVV	Subpart VVVV
Subpart WWWW	Subpart WWWW
Subpart XXXX	Subpart XXXX
Subpart YYYY	Subpart YYYY
Subpart ZZZZ	Subpart ZZZZ
Subpart AAAAA	Subpart AAAAA
Subpart BBBBB	Subpart BBBBB
Subpart CCCCC	Subpart CCCCC
Subpart DDDDD	Subpart DDDDD

Chapter 14 (Part 14.5)	40 CFR Part 63
Subpart EEEEE	Subpart EEEEE
Subpart FFFFF	Subpart FFFFF
Subpart GGGGG	Subpart GGGGG
Subpart HHHHH	Subpart HHHHH
Subpart IIIII	Subpart IIIII
Subpart JJJJJ	Subpart JJJJJ
Subpart KKKKK	Subpart KKKKK
Subpart LLLLL	Subpart LLLLL
Subpart MMMMM	Subpart MMMMM
Subpart NNNNN	Subpart NNNNN
Subpart PPPPP	Subpart PPPPP
Subpart QQQQQ	Subpart QQQQQ
Subpart RRRRR	Subpart RRRRR
Subpart SSSSS	Subpart SSSSS
Subpart TTTTT	Subpart TTTTT
Subpart UUUUU	Subpart UUUUU
Subpart WWWWW	Subpart WWWWW
Subpart YYYYY	Subpart YYYYY
Subpart ZZZZZ	Subpart ZZZZZ
Subpart BBBBBB	Subpart BBBBBB
Subpart CCCCCC	Subpart CCCCCC
Subpart DDDDDD	Subpart DDDDDD
Subpart EEEEEE	Subpart EEEEEE
Subpart FFFFFF	Subpart FFFFFF
Subpart GGGGGG	Subpart GGGGGG
Subpart HHHHHH	Subpart HHHHHH

Subpart JJJJJJ	Subpart JJJJJJ
Chapter 14 (Part 14.5)	40 CFR Part 63
Subpart LLLLLL	Subpart LLLLLL
Subpart MMMMMM	Subpart MMMMMM
Subpart NNNNNN	Subpart NNNNNN
Subpart OOOOOO	Subpart OOOOOO
Subpart PPPPPP	Subpart PPPPPP
Subpart QQQQQQ	Subpart QQQQQQ
Subpart RRRRRR	Subpart RRRRRR
Subpart SSSSSS	Subpart SSSSSS
Subpart TTTTTT	Subpart TTTTTT
Subpart VVVVVV	Subpart VVVVVV
Subpart WWWWWW	Subpart WWWWWW
Subpart XXXXXX	Subpart XXXXXX
Subpart YYYYYY	Subpart YYYYYY
Subpart ZZZZZZ	Subpart ZZZZZZ
Subpart AAAAAAA	Subpart AAAAAAA
Subpart BBBBBBB	Subpart BBBBBBB
Subpart CCCCCCC	Subpart CCCCCCC
Subpart DDDDDDD	Subpart DDDDDDD
Subpart HHHHHHH	Subpart HHHHHHH
Chapter 15 (Part 15.2)	40 CFR Part 65
Subpart A	Subpart A
Subpart C	Subpart C
Subpart D	Subpart D

Subpart E	**Subpart E**
Chapter 15 (Part 15.2)	**40 CFR Part 65**
Subpart F	**Subpart F**
Subpart G	**Subpart G**

CHAPTER 1. GENERAL PROVISIONS

1.3 Definitions. As used in these rules and regulations, terms shall have the meanings ascribed in this part. (amended September 8, 2011)

"Volatile Organic Compound (VOC)" shall mean any compound of carbon excluding carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such organic compound other than the following:

Methane;

Ethane;

Methyl Chloroform (1,1,1-Trichloroethane);

Methylene Chloride (Dichloromethane);

CFC-11 (Trichlorofluoromethane);

CFC-12 (Dichlorodifluoromethane);

HCFC-22 (Chlorodifluoromethane);

HFC-23 (Trifluoromethane);

CFC-114 (1,2-dichloro 1,1,2,2-Tetrafluoroethane);

CFC-115 (Chloropentafluoroethane);

HCFC-123 (1,1,1-Trifluoro-2,2-dichlororethane);

HCFC-124 (2-Chloro-1,1,1,2-tetrafluoroethane);

HFC-125 (Pentafluoroethane);

HFC-134 (1,1,2,2-Tetrafluoroethane);

HFC-134a (1,1,1,2-Tetrafluoroethane);

HCFC-141b (1,1-Dichloro-1-fluoroethane);

HCFC-142b (1-Chloro-1,1-difluoroethane);

HFC-143a (1,1,1-Trifluoroethane);

HFC-152a (1,1-Difluoroethane);

CFC-113 (1,1,2-Trichloro-1,2,2-Trifluoroethane);

Parachlorobenzotrifluoride (PCBTF);

Cyclic, branched, or linear completely methylated siloxanes;

Acetone;

Perchloroethylene (tetrachloroethylene);

HCFC-225ca (3,3-dichloro-1,1,1,2,2-pentafluoropropane);

HCFC-225cb (1,3-dichloro-1,1,2,2,3-pentafluoropropane);

HFC-43-10mee(1,1,1,2,3,4,4,5,5,5 decafluoropentane);

HFC-32 (Difluoromethane);

HFC-161 (Ethylfluoride);

HFC-236fa (1,1,1,3,3,3-Hexafluoropropane);

HFC-245ca (1,1,2,2,3-Pentafluoropropane);

HFC-245ea (1,1,2,3,3-Pentafluoropropane);

HFC-245eb (1,1,1,2,3-Pentafluoropropane);

HFC-245fa (1,1,1,3,3-Pentafluoropropane);

HFC-236ea (1,1,1,2,3,3-Hexafluoropropane);

HFC-365mfc (1,1,1,3,3-Pentaflurorobutane);

HCFC-31 (Chlorofluoromethane);

HCFC-123a (1,2-Dichloro-1,1,2-trifluoroethane);

HCFC-151a (1-Chloro-1-fluoroethane);

$C_4F_9OCH_3$ (1,1,1,2,2,3,3,4,4-Nonafluoro-4-methoxybutane);

$(CF_3)_2CFCF_2OCH_3$ (2-(Difluoromethoxymethyl)-1,1,1,2,3,3,3-heptafluoropropane);

$C_4F_9OC_2H_5$(1-Ethoxy-1,1,2,2,3,3,4,4,4-nonafluorobutane);

$(CF_3)_2CFCF_2OC_2H_5$ (2-Ethoxydifluoromethyl) -1,1,1,2,3,3,3-heptafluoropropane);

Methyl Acetate;

HFE-7000 (n-$C_3F_7OCH_3$, 1,1,1,2,2,3,3,-heptafluoro-3 methoxy-propane);

HFE-7500(3-ethoxy-1,1,1,2,3,4,4,5,5,6,6,6-dodecafluoro-2-(trifluoromethyl) hexane);

HFC-227ea (1,1,1,2,3,3,3,-heptafluoropropane);

Methyl formate ($HCOOCH_3$);

1,1,1,2,2,3,4,5,5,5,- decafluoro-3-methoxy-4-trifluoromethyl- pentane (HFE- 7300);

propylene carbonate;

dimethyl carbonate;

trans-1,3,3,3-tetrafluoropropene;

HFE-134 (HCF_2OCF_2H);

HFE-236cal2 ($HCF_2OCF_2OCF_2H$);

HFE-338pcc13 ($HCF_2OCF_2CF_2OCF_2H$);

H-Galden 1040x or H-Galden ZT130 (or 150 or 180) ($HCF_2OCF_2OCF_2CF_2OCF_2H$);

Trans 1-chloro-3,3,3-trifluoroprop-1-ene (SolsticeTM 1233zd(E));

HFO-1234yf (2,3,3,3-tetrafluoropropene);

2-amino-2-methyl-1-propanol;

t-butyl acetate;

1,1,2,2-Tetrafluoro-1-(2,2,2-trifluoroethoxy) ethane;

cis- 1,1,1,4,4,4-hexafluorobut-2-ene (HFO-1336mzz-Z);

trans-1,1,1,4,4,4-hexafluorobut-2-ene *(HFO-1336mzz(E));*

and

Perfluorocarbon compounds which fall into these four classes –

(1) Cyclic, branched, or linear completely fluorinated alkanes,

(2) Cyclic, branched, or linear completely fluorinated ethers with no unsaturations,

(3) Cyclic, branched, or linear completely fluorinated tertiary amines with no unsaturations,

(4) sulfur containing perfluorcarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

The heretofore mentioned excluded organic compounds have been determined to have negligible photochemical reactivity by the EPA Administrator. For purposes of determining compliance with emission limits under Chapter 8, VOC shall be measured by the approved test methods contained in Chapter 8. Where such a method also inadvertently measures the heretofore mentioned negligibly photochemical reactive organic compounds with the reactive organic compounds, an owner or operator may exclude these negligibly reactive compounds when determining compliance with an emission limit using EPA-approved test methods and procedures. (amended ~~December 15, 2022)~~ _____,2024.

CHAPTER 3. PERMITS (Amended March 26, 1998)

3.3 Standards for Granting Permits. (amended September 8, 2011)

3.3.8 Reserved. (amended , 2024) ~~Exceptions to Violations of Emission Limits.(amended March 24, 1994)~~

~~(a) The Director may, in the permit, exempt on a case by case basis any exceedances of emission limits or permit conditions which cannot reasonably be avoided, such as during periods of start-up, shut-down, and load change. For emission limits established by federal rules (e.g. NSPS, NESHAP, and MACT), exemptions may be granted only where provisions for such exemptions are contained in the applicable rule or its general provisions. (Amended November 9, 2000)~~

~~(b) Emergency Provision.~~

~~(1) An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the facility, including acts of God. These are situations that require immediate corrective action(s) to restore normal operation, and that cause the facility to exceed a technology based emission limitation set by the permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include exceedances of the permit emission limitations caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation, or operator error.~~

~~(2) Exceedances of emissions limitations during emergencies at a facility may be exempted as being violations provided that:~~

~~(i) the permittee identifies the cause(s) of the emergency;~~

~~(ii) the permitted facility was being properly operated until such a time as the emergency occurred;~~

~~(iii) during the period of which the~~

~~emergency occurred, the permittee took all reasonable steps to minimize levels of emissions that exceeded the standards, or other requirements of the permit;~~

~~(iv) the permittee submitted notice of the emergency to the Department within two (2) working days of the time when the emissions limitations were exceeded as a result of the emergency. This notice must include a description of the emergency, any steps taken to mitigate 3 - 22 emissions, and corrective actions taken. Within five (5) working days of the emergency, written documentation of the facts reported in the notice of the emergency shall be submitted to the Director; and~~

~~(v) The permittee immediately documented the emergency exceedance in an "Emergency Log", which shall be maintained for 5 years in a form suitable for inspection upon request by the Director. (3) The Director shall be the determiner of whether an emergency has occurred. (4) This provision is in addition to any emergency or upset provision contained in any applicable requirement. (5) An emergency shall constitute an affirmative defense. (amended November 9, 2000).~~

3.4 Air Permits Authorizing Construction in or Near Nonattainment Areas. (amended September 8, 2011)

3.4.4 Offset Standards

(e) No emissions credit may be allowed for replacing one hydrocarbon compound with another of lesser reactivity, except <u>that emissions credit may be allowed for the replacement with those compounds listed as having negligible photochemical reactivity in 40 CFR 51.100(s).</u> ~~for those compounds listed in Table 1 of EPA's "Recommended Policy on Control of Volatile Organic Compounds" (42 FR 35314, July 8, 1977; (This document is also available from the Office of Air Quality Planning and Standards, (MD-15) Research Triangle Park, NC 27711.))~~ <u>(amended , 2024)</u>

3.5 Air Permits Authorizing Construction in Clean Air Areas. (Prevention of Significant Deterioration Permitting (PSD)) (amended September 8, 2011)

3.5.10 Sources Impacting Federal Class I Areas - Additional

Requirements. (amended January 25, 1996)

(e) Class I Variances. The owner or operator of a proposed source or modification may demonstrate to the Federal Land Manager that the emissions from such source or modification would have no adverse impact on the air quality related values of any such lands (including visibility), notwithstanding that the change in air quality resulting from emissions from such source or modification would cause or contribute to concentrations which would exceed the maximum allowable increases for a Class I area. If the Federal Land Manager concurs with such demonstration and he so certifies, the Director may issue the permit with such emission limitations as may be necessary to assure that emissions of sulfur dioxide, PM2.5 PM10, and nitrogen oxides would not exceed the following maximum allowable increases over minor source baseline concentration for such pollutants:

Pollutant	Maximum Allowable Increase (micrograms per cubic meter)
PM10:	Annual arithmetic mean....17
	24-hour maximum 30
PM2.5:	Annual arithmetic mean.....4
	24-hour maximum..... 9
Sulfur Dioxide:	Annual arithmetic mean....20
	24-hour maximum..... 91
	3-hour maximum.....325
Nitrogen Dioxide:	Annual arithmetic mean... 25

provided that the applicable requirements of this Part are otherwise met. (amended , 2024).

3.7 Major Source Operating Permit Annual Emissions Fees.

3.7.4 Fee Schedule. (amended ~~December 15, 2022~~ ,2024)

(a) Major sources which have actual emissions of 1000 tons or more per year of an affected pollutant in the calendar years 1991, 1992, and 1993 shall pay permit fees

according to Schedule A of this Part for pollutants which are limited by regulation or by a permit condition developed pursuant to these requirements.

(b) Major sources which have actual emissions of 100 tons or more per year but less than 1000 tons per year of an affected pollutant in the calendar years 1992 and 1993 shall pay permit fees according to Schedule B of this Section for pollutants which are limited by regulation or by a permit condition developed pursuant to these requirements.

(c) Beginning in the calendar year 1995, fees will be due on May 1st for every source subject to this Part at the rate of $25 per ton plus the difference in the CPI of the year the fees were assessed and the CPI of 1989 for each regulated air pollutant, except carbon monoxide, and except greenhouse gases ~~unless a specific greenhouse gas is otherwise included in the definition of "regulated air pollutant" in Section 3.1.1~~ other than nitrous oxide, which is also regulated as a nitrogen oxide, for the actual emissions during the calendar year 1994. Each subsequent year, fees will be due May 1st for the emissions of regulated air pollutants during the preceding calendar year.

(d) Emissions from a major source of any pollutant subject to fees in this part which are emitted at a rate greater than 4000 tons per year shall be defined as 4000 tons per year for the purposes of assessing fees for each said pollutant.

(e) Emissions of a regulated air pollutant shall not be counted more than once in determining fees.

(f) In the event the annual emissions fees which would be due from a source subject to this Part are less than $500 under the requirements of Paragraph 3.7.4(c) above, the fees which are actually due shall be $500, except those facilities which are covered only by a General Permit issued pursuant to Section 3.9.7 of this Part. For facilities which are subject only to such General Permitting requirements, and for which the annual emissions fees are less than $250 under the requirements of Paragraph 3.7.4(c) above, the fees which are actually due shall be $250.

(g) In the event there is a conflict between Alabama State law or the regulations promulgated thereto and the fee structure provided in this Part, the fee structure established under State law shall take precedence. (adopted November 9, 2000)

CHAPTER 13. STANDARDS OF PERFORMANCE FOR NEW STATIONARY SOURCES (Amended August 24, 2017)

13.1 General.

13.1.1 The Environmental Protection Agency Regulations, and the appendices applicable thereto, governing Standards of Performance for New Stationary Sources (40 CFR Part 60, and Appendices) designated in Part 13.2 are incorporated by reference as they exist in 40 CFR 60 (July 1, ~~2021~~ 2024), as amended by the word or phrase substitutions given in Part 13.3. References for specific documents containing the complete text of subject regulations are given in Appendix A to these regulations. (Amended ~~December 15, 2022)~~ _____,2024)

[NOTE: The standards pertaining to the Consolidated Federal Air Rule are located in Chapter 15.]

13.2 Designated Standards of Performance.

Subpart A - General Provisions.

Subpart D - Fossil Fuel-Fired Steam Generators for which construction is commenced after August 17, 1971.

Subpart Da - Electric Utility Steam Generating Units for which construction is commenced after September 18, 1978.

Subpart Db - Industrial - Commercial - Institutional Steam Generating Units.

Subpart Dc - Small Industrial-Commercial-Institutional Steam Generating Units.

Subpart E - Incinerators.

Subpart Ea - Municipal Waste Combustors for which construction is commenced after December 20, 1989 and on or before September 20, 1994.

Subpart Eb - Municipal Waste Combustors for which construction is commenced after September 20, 1994.

Subpart Ec - Standards of Performance for Hospital/Medical/Infectious Waste Incinerators for which construction is commenced after June 20, 1996.

Subpart F - Portland Cement Plants.

Subpart G - Nitric Acid Plants.

Subpart Ga - Nitric Acid Plants for which construction, reconstruction, or modification commenced after October 14, 2011.

Subpart H - Sulfuric Acid Plants.

Subpart I - Asphalt Concrete Plants.

Subpart J - Petroleum Refineries.

Subpart Ja - Petroleum Refineries for which construction, reconstruction, or modification commenced after May 14, 2007.

Subpart K - Storage Vessels for Petroleum Liquids constructed after June 11, 1973, and prior to May 19, 1978.

Subpart Ka - Storage Vessels for Petroleum Liquids constructed after May 18, 1978, and prior to July 23, 1984.

Subpart Kb - Volatile Organic Liquid Storage

Vessels (Including Petroleum Liquid Storage Vessels) for which Construction, Reconstruction, or Modification Commenced after July 23, 1984.

Subpart L - Secondary Lead Smelters.

Subpart La - Secondary Lead Smelters for Which Construction, Reconstruction, or Modification Commenced After December 1, 2022.

Subpart M - Secondary Brass and Bronze Ingot Production Plants.

Subpart N - Primary Emissions from Basic Oxygen Process Furnaces for which construction is commenced after June 11, 1973.

Subpart Na - Standards of Performance for Secondary Emissions from Basic Oxygen Process Steelmaking Facilities for which construction is commenced after January 20, 1983.

Subpart O - Sewage Treatment Plants.

Subpart P - Primary Copper Smelters.

Subpart Q - Primary Zinc Smelters.

Subpart R - Primary Lead Smelters.

Subpart S - Primary Aluminum Reduction Plants.

Subpart T - Wet Process Phosphoric Acid Plants.

Subpart U - Superphosphoric Acid Plants.

Subpart V - Diammonium Phosphate Plants.

Subpart W - Triple Superphosphate Plants.

Subpart X - Granular Triple Superphosphate Storage Facilities.

Subpart Y - Coal Preparation Plants.

Subpart Z - Ferroalloy Production Facilities.

Subpart AA - Steel Plants (Electric arc furnaces and dust-handling equipment).

Subpart AAa - Steel Plants: Electric Arc Furnaces and Argon Oxygen - Decarburization Vessels constructed after August 17, 1983, and on or Before May 16, 2022.

Subpart AAb - Steel Plants: Electric Arc Furnaces and Argon-Oxygen Decarburization Vessels Constructed After May 16, 2022.

Subpart BB - Kraft Pulp Mills.

Subpart BBa - Standards of Performance for Kraft Pulp Mill affected sources for which construction, reconstruction, or modification commenced after May 23, 2013.

Subpart CC - Standards of Performance for Glass Manufacturing Plants.

Subpart DD - Grain Elevators.

Subpart EE - Surface Coating of Metal Furniture.
Subpart GG - Stationary Gas Turbines.

Subpart HH - Lime Manufacturing Plants.

Subpart KK - Lead-Acid Battery Manufacture.

Subpart KKa - Lead Acid Battery Manufacturing Plants for Which Construction, Modification or Reconstruction Commenced After February 23, 2022.

Subpart LL - Metallic Mineral Processing Plants.

Subpart MM - Automobile and Light-Duty Truck Surface Coating Operations.

Subpart MMa - Automobile and Light Duty Truck Surface Coating Operations for which Construction, Modification or Reconstruction Commenced After May 18, 2022.

Subpart NN - Phosphate Rock Plants.

Subpart PP - Ammonium Sulfate Manufacturing.

Subpart QQ - Graphic Arts Industry: Publication Rotogravure Printing.

Subpart RR - Pressure Sensitive Tape and Label Surface Coating Industry.

Subpart SS - Industrial Surface Coating - Large Appliances.

Subpart TT - Metal Coil Surface Coating Operations.

Subpart UU - Asphalt Processing and Asphalt Roofing

Manufacture.

Subpart VV - Equipment Leaks of VOC in the Synthetic Organic Chemical Manufacturing Industry, for which construction, reconstruction, or modification commenced after January 5, 1981, and on or before November 7, 2006.

Subpart VVa - Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for which construction, reconstruction, or modification commenced after November 7, 2006, and on or Before April 25, 2023.

Subpart VVb - Equipment Leaks of VOC in the Synthetic Organic Chemicals Manufacturing Industry for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart WW - Beverage Can Surface Coating Industry.

Subpart XX - Bulk Gasoline Terminals.

Subpart XXa - Bulk Gasoline Terminals that Commenced Construction, Modification or Reconstruction After June 10, 2022.

Subpart BBB - Rubber Tire Manufacturing Industry.

Subpart DDD - Volatile Organic Compound Emissions from the Polymer Manufacturing Industry.

Subpart FFF - Flexible Vinyl and Urethane Coating and Printing.

Subpart GGG - Equipment Leaks of VOC in Petroleum Refineries for which construction, reconstruction, or modification commenced after January 4, 1983, and on or

before November 7, 2006.

Subpart GGGa – Equipment Leaks of VOC in Petroleum Refineries for which construction, reconstruction, or modification commenced after November 7, 2006.

Subpart HHH – Synthetic Fiber Production Facilities.

Subpart III – VOC Emissions from SOCMI Air Oxidation Unit Processes.

Subpart IIIa – VOC Emissions from SOCMI Air Oxidation Unit Processes for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart JJJ – Petroleum Dry Cleaners.

Subpart KKK – Equipment Leaks of VOC from On-shore Natural Gas Processing Plants for which Construction, Reconstruction, or Modification Commenced after January 20, 1984, and on or before August 23, 2011.

Subpart LLL – Standards of Performance for On-shore Natural Gas Processing for which Construction, Reconstruction, or Modification Commenced after January 20, 1984 and on or before August 23, 2011: SO2 Emissions.

Subpart NNN – VOC Emissions from SOCMI Distillation Operations.

Subpart NNNa – VOC Emissions from SOCMI Distillation Operations for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart OOO - Nonmetallic Mineral Processing Plants.

Subpart PPP - Wool Fiberglass Insulation Manufacturing Plants.

Subpart QQQ - VOC Emissions from Petroleum Refinery Wastewater Systems.

Subpart RRR - Volatile Organic Compound (VOC) Emissions from the Synthetic Organic Chemical Manufacturing Industry Reactor Process.

Subpart RRRa - Volatile Organic Compound (VOC) Emissions from SOCMI Reactor Processes for Which Construction, Reconstruction, or Modification Commenced After April 25, 2023.

Subpart SSS - Magnetic Tape Manufacturing Industry.

Subpart TTT - Industrial Surface Coating: Plastic Parts for Business Machines.

Subpart TTTa - Industrial Surface Coating: Surface Coating of Plastic Parts for Business Machines for Which Construction, Reconstruction, or Modification Commenced After June 21, 2022.

Subpart UUU- Calciners and Dryers in Mineral Industries.

Subpart VVV - Polymeric Coating of Supporting Substrates.

Subpart WWW - Municipal Waste Landfills.

Subpart XXX - Municipal Solid Waste Landfills that

commenced construction, reconstruction, or modification after July 17, 2014.

Subpart AAAA - Small Municipal Waste Combustion Units for which construction is commenced after August 30, 1999 or for which modification or reconstruction is commenced After June 6, 2001.

Subpart CCCC - Commercial and Industrial Solid Waste Incineration Units for which construction is commenced after June 4, 2010 or for which modification or reconstruction is commenced on or after August 7, 2013.

Subpart EEEE - Standards of Performance for Other Solid Waste Incineration Units for Which Construction is Commenced After December 9, 2004, or for Which Modification or Reconstruction is Commenced on or after June 16, 2006.

Subpart IIII - Standards of Performance for Stationary Compression Ignition Internal Combustion Engines.

Subpart JJJJ - Stationary Spark Ignition Internal Combustion Engines.

Subpart KKKK - Standards of Performance for Stationary Combustion Turbines

Subpart LLLL - New Sewage Sludge Incineration Units.

Subpart OOOO - Crude Oil and Natural Gas Production, Transmission and Distribution.

Subpart OOOOa - Crude Oil and Natural Gas Facilities for which construction, modification, or reconstruction commenced after September 18, 2015 and on or Before December 6, 2022.

Subpart OOOOb - Crude Oil and Natural Gas Facilities for which construction, modification, or reconstruction commenced after December 6, 2022.

Subpart TTTT - Greenhouse Gas Emissions from Electric Generating Units.

Subpart TTTTa - Greenhouse Gas Emissions from Modified Coal-Fired Steam Electric Generating Units and New Construction and Reconstruction Stationary Combustion Turbine Electric Generating Units.

CHAPTER 14. EMISSIONS STANDARDS FOR HAZARDOUS AIR POLLUTANTS (Amended August 24, 2017)

14.1 General.

14.1.1 The Environmental Protection Agency Regulations, and the Appendices applicable thereto, governing Hazardous Air Pollutants, 40 CFR, Part 61 and Appendices designated in Part 14.2 and 40 CFR Part 63, and Appendices designated in Part 14.5 are incorporated by reference as they exist in 40 CFR Part 61 (July 1, ~~2021~~ 2024), and 40 CFR Part 63 (July 1, ~~2021~~ 2024), as amended by the word or phrase substitutions given in Part 14.3. References for specific documents containing the complete text of subject regulations are given in Appendix A to these Regulations. (Amended ~~December 15, 2022)~~ _____, 2024)

[NOTE: The standards pertaining to the Consolidated Federal Air Rule are located in Chapter 15.]

14.5 National Emission Standards for Hazardous Air Pollutants for Source Categories. (amended _____, 2024)

Subpart A - General Provisions

Subpart B - Requirements for Control Technology Determinations for Major Sources in accordance with Clean Air Act Sections 112(g) and 112(j).

[Note: The requirements for implementation of §112(g) are found in Part 3.10]

Subpart D - Regulations Governing Compliance Extensions for Early Reductions of Hazardous Air Pollutants.

Subpart F - National Emission standards for Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry.

Subpart G - National Emission Standards for Organic

Hazardous Air Pollutants from Synthetic Organic Chemical Manufacturing Industry Process Vents, Storage Vessels, Transfer Operations, and Wastewater.

Subpart H - National Emission Standards for Organic Hazardous Air Pollutants for Equipment Leaks.

Subpart I - National Emission Standards for Organic Hazardous Air Pollutants for Certain Processes Subject to the Negotiated Regulation for Equipment Leaks.

Subpart L - National Emission Standards for Coke Oven Batteries.

Subpart M - National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities.

Subpart N - National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks.

Subpart O - Ethylene Oxide Emissions Standards for Sterilization Facilities.

Subpart Q - National Emission Standards for Hazardous Air Pollutants for Industrial Process Cooling Towers.

Subpart R - National Emission Standards for Gasoline Distribution Facilities (Bulk Gasoline Terminals and Pipeline Breakout Stations).

Subpart S - National Emission Standards for Hazardous Air Pollutants for Pulp and Paper Productions

Subpart T - National Emission Standards for Halogenated Solvent Cleaning.

Subpart U - National Emission Standards for Hazardous Air Pollutant emission: Group I Polymers and Resins.

Subpart W - National Emission Standards for Hazardous Air Pollutants for Epoxy Resins Production and Non-Nylon Polyamides Production.

Subpart X - National Emission Standards for Secondary Lead Smelting.

Subpart AA - National Emission Standards for Hazardous Air Pollutants From Phosphoric Acid Manufacturing Plants.

Subpart BB - National Emission Standards for Hazardous Air Pollutants From Phosphate Fertilizers Production Plants.

Subpart CC - National Emission Standards for Hazardous Air Pollutants from Petroleum Refineries.

Subpart DD - National Emissions Standards for Hazardous Air Pollutants from Off-Site Waste and Recovery Operations.

Subpart EE - National Emission Standards for Magnetic Tape Manufacturing Operations.

Subpart GG - National Emission Standards for Aerospace Manufacturing and Rework Facilities.

Subpart HH - National Emission Standards for Hazardous Air Pollutants from Oil and Natural Gas Production Facilities.

Subpart II - National Emission Standards for Shipbuilding and Ship Repair (Surface Coating) Operations.

Subpart JJ - National Emission Standards for Wood Furniture Manufacturing Operations.

Subpart KK - National Emissions Standards for the Printing and Publishing Industry.

Subpart LL - National Emission Standards for Primary Aluminum Reduction Plants.

Subpart MM - National Emission Standards for Hazardous Air Pollutants for Chemical Recovery Combustion Sources at Kraft, Soda, Sulfite and Stand-alone Semichemical Pulp and Paper Mills.

Subpart NN - National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing at Area

Sources.

Subpart OO - National Emission Standards for Tanks Level 1.

Subpart PP - National Emission Standards for Containers.

Subpart QQ - National Emission Standards for Surface Impoundments.

Subpart RR - National Emission standards for Individual Drain Systems.

Subpart SS - National Emission Standards for Closed Vent Systems, Control Devices, Recovery Devices, and Routing to a Fuel Gas System or a Process.

Subpart TT - National Emission Standards for Equipment Leaks - Control Level 1.

Subpart UU - National Emission Standards for Equipment Leaks - Control Level 2 Standards.

Subpart VV - National Emission Standards for Oil - Water Separators and Organic - Water Separators.

Subpart WW - National Emission Standards for Hazardous Air Pollutants for Storage Vessels (Tanks) - Control Level 2.

Subpart XX - National Emission Standards for Ethylene Manufacturing Process Units: Heat Exchange Systems and Waste Operations.

Subpart YY - National Emission Standards for Hazardous Air Pollutants for Source Categories: Generic Maximum Achievable Control Technology Standards.

Subpart CCC - National Emission Standards for Hazardous Air Pollutants for Steel Pickling - HCl Process Facilities and Hydrochloric Acid Regeneration Plants.

Subpart DDD - National Emission Standards for

Hazardous Air Pollutants for Mineral Wool Production.

Subpart EEE - National Emission Standards for Hazardous Air Pollutants from Hazardous Waste Combustors.

Subpart GGG - National Emission Standards for Hazardous Air Pollutants for Source Categories: Pharmaceuticals Production.

Subpart HHH - National Emission Standards for Hazardous Air Pollutants from Natural Gas Transmission and Storage Facilities.

Subpart III - National Emission Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production.

Subpart JJJ - National Emission Standards for Hazardous Air Pollutant Emissions; Group IV Polymers and Resins.

Subpart LLL - National Emission Standards for Hazardous Air Pollutants from the Portland Cement Manufacturing Industry.

Subpart MMM - National Emission Standards for Hazardous Air Pollutants for Pesticide Active Ingredient Production.

Subpart NNN - National Emission Standards for Hazardous Air Pollutants for Wool Fiberglass Manufacturing.

Subpart OOO - National Emission Standards for Hazardous Air Pollutants for Amino/Phenolic Resins Production.

Subpart PPP - National Emission Standards for Hazardous Air Pollutants for Polyether Polyols Production.

Subpart QQQ - National Emission Standards for Hazardous Air Pollutants for Primary Copper Smelting.

Subpart RRR - National Emission Standards for Hazardous Air Pollutants for Secondary Aluminum Production.

Subpart UUU - National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic

Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units.

Subpart VVV - National Emission Standards for Hazardous Air Pollutants: Publicly Owned Treatment Works.

Subpart XXX - National Emission Standards for Hazardous Air Pollutants for Ferroalloys Production: Ferromanganese and Silicomanganese.

Subpart AAAA - National Emission Standards for Hazardous Air Pollutants: Municipal Solid Waste Landfills.

Subpart CCCC - National Emission Standards for Hazardous Air Pollutants for manufacturing of Nutritional Yeast.

Subpart DDDD - National Emission Standards for Hazardous Air Pollutants: Plywood and Composite Wood Products.

Subpart EEEE - National Emission Standards for Hazardous Air Pollutants: Organic Liquids Distribution (Non-Gasoline).

Subpart FFFF - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Organic Chemical Manufacturing.

Subpart GGGG - National Emission Standards for Hazardous Air Pollutants for Solvent Extraction for Vegetable Oil Production.

Subpart HHHH - National Emission Standards for Hazardous Air Pollutants for Wet-Formed Fiberglass Mat Production.

Subpart IIII - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Automobiles and Light Duty Trucks.

Subpart JJJJ - National Emission Standards for Hazardous Air Pollutants: Paper and other Web Coating.

Subpart KKKK - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Cans.

Subpart MMMM - National Emission Standards for Hazardous Air Pollutants: for Surface Coating of Miscellaneous Metal Parts and Products.

Subpart NNNN - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Large Appliances.

Subpart OOOO - National Emission Standards for Hazardous Air Pollutants: Printing, Coating, and Dyeing of Fabrics and Other Textiles.

Subpart PPPP - National Emission Standards for Hazardous Air Pollutants for the Surface Coating of Plastic Parts and Products.

Subpart QQQQ - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Wood Building Products.

Subpart RRRR - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Furniture.

Subpart SSSS - National Emission Standards for Hazardous Air Pollutants: Surface Coating of Metal Coil.

Subpart TTTT - National Emission Standards for Hazardous Air Pollutants for Leather Finishing Operations.

Subpart UUUU - National Emission Standards for Hazardous Air Pollutants for Cellulose Products manufacturing.

Subpart VVVV - National Emission Standards for Hazardous Air Pollutants for Boat Manufacturing.

Subpart WWWW - National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production.

Subpart XXXX - National Emission Standards for Hazardous Air Pollutants: Rubber Tire Manufacturing.

Subpart YYYY - National Emission Standards for Hazardous Air Pollutants: Stationary Combustion Turbines.

Subpart ZZZZ - National Emission Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines.

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

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

Subpart CCCCC - National Emission Standards for Hazardous Air Pollutants for Coke Ovens: Pushing, Quenching, and Battery Stacks.

Subpart DDDDD - National Emission Standards for Hazardous Air Pollutants for Major Sources: Industrial, Commercial and Institutional Boilers and Process Heaters.

Subpart EEEEE - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries.

Subpart FFFFF - National Emission Standards for Hazardous Air Pollutants for Integrated Iron and Steel Manufacturing Facilities.

Subpart GGGGG - National Emission Standards for Hazardous Air Pollutants: Site Remediation.

Subpart HHHHH - National Emission Standards for Hazardous Air Pollutants: Miscellaneous Coating Manufacturing.

Subpart IIIII - National Emission Standards for Hazardous Air Pollutants: Mercury Emissions from Mercury Cell Chlor-Alkali Plants.

Subpart JJJJJ - National Emission Standards for Hazardous Air Pollutants for Brick and Structural Clay Products Manufacturing.

Subpart KKKKK - National Emission Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing.

Subpart LLLLL - National Emission Standards for Hazardous Air Pollutants: Asphalt Processing and Asphalt Roofing Manufacturing.

Subpart MMMMM - National Emission Standards for Hazardous Air Pollutants: Flexible Polyurethane Foam Fabrication Operations.

Subpart NNNNN - National Emission Standards for Hazardous Air Pollutants: Hydrochloric Acid Production.

Subpart PPPPP - National Emission Standards for Hazardous Air Pollutants for Engine Test Cells/Standards.

Subpart QQQQQ - National Emission Standards for Hazardous Air Pollutants for Friction Materials Manufacturing Facilities.

Subpart RRRRR - National Emission Standards for Hazardous Air Pollutants: Taconite Iron Ore Processing.

Subpart SSSSS - National Emission Standards for Hazardous Air Pollutants for Refractory Products Manufacturing.

Subpart TTTTT - National Emission Standards for Hazardous Air Pollutants for Primary Magnesium Refining.

Subpart UUUUU - National Emission Standards for Hazardous Air Pollutants for Coal- and Oil-Fired Electric Utility Steam Generating Units.

Subpart WWWWW - National Emission Standards for Hazardous Air Pollutants for Hospital Ethylene Oxide Sterilizers.

Subpart YYYYY - National Emission Standards for Hazardous Air Pollutants for Area Sources: Electric Arc Furnace Steelmaking Facilities.

Subpart ZZZZZ - National Emission Standards for Hazardous Air Pollutants for Iron and Steel Foundries Area Sources.

Subpart BBBBBB - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline

Distribution Bulk Terminals, Bulk Plants & Pipeline Facilities.

Subpart CCCCCC - National Emission Standards for Hazardous Air Pollutants for Source Category: Gasoline Dispensing Facilities.

Subpart DDDDDD - National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production Area Sources.

Subpart EEEEEE - National Emissions Standards for Hazardous Air Pollutants for Primary Copper Smelting Area Sources.

Subpart FFFFFF - National Emissions Standards for Hazardous Air Pollutants for Secondary Copper Smelting Area Sources.

Subpart GGGGGG - National Emissions Standards for Hazardous Air Pollutants for Primary Nonferrous Metals Area Sources - Zinc, Cadmium, and Beryllium.

Subpart HHHHHH - National Emissions Standards for Hazardous Air Pollutants: Paint Stripping & Miscellaneous Surface Coating Operations at Area Sources.

Subpart JJJJJJ - National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial and Institutional Boilers Area Sources.

Subpart LLLLLL - National Emissions Standards for Hazardous Air Pollutants for Acrylic and Modacrylic Fibers Production Area Sources.

Subpart MMMMMM - National Emissions Standards for Hazardous Air Pollutants for Carbon Black Production Area Sources.

Subpart NNNNNN - National Emissions Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources: Chromium Compounds.

Subpart OOOOOO - National Emissions Standards for Hazardous Air Pollutants for Flexible Polyurethane Foam Production and Fabrication Area Sources.

Subpart PPPPPP – National Emissions Standards for Hazardous Air Pollutants for Lead Acid Battery Manufacturing Area Sources.

Subpart QQQQQQ – National Emissions Standards for Hazardous Air Pollutants for Wood Preserving Area Sources.

Subpart RRRRRR – National Emissions Standards for Hazardous Air Pollutants for Clay Ceramics Manufacturing Area Sources.

Subpart SSSSSS – National Emissions Standards for Hazardous Air Pollutants for Glass Manufacturing Area Sources.

Subpart TTTTTT – National Emissions Standards for Hazardous Air Pollutants for Secondary Nonferrous Metals Processing Area Sources.

Subpart VVVVVV – National Emissions Standards for Hazardous Air Pollutants for Chemical Manufacturing Area Sources.

Subpart WWWWWW – National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Plating and Polishing Operations.

Subpart XXXXXX – National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Nine Metal Fabrication and Finishing Source Categories.

Subpart YYYYYY – National Emissions Standards for Hazardous Air Pollutants for Ferroalloys Production Facilities Area Sources.

Subpart ZZZZZZ – National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Aluminum, Copper, and Other Nonferrous Foundries.

Subpart AAAAAAA – National Emissions Standards for Hazardous Air Pollutants for Area Sources: Asphalt Processing and Asphalt Roofing Manufacturing.

Subpart BBBBBBB – National Emissions Standards for Hazardous Air Pollutants for Area Sources: Chemical

Preparations Industry.

Subpart CCCCCCC - National Emissions Standards for Hazardous Air Pollutants for Area Sources: Paint and Allied Products Manufacturing.

Subpart DDDDDDD - National Emissions Standards for Hazardous Air Pollutants: Area Source Standards for Prepared Feeds Manufacturing.

Subpart HHHHHHH - National Emission Standards for Hazardous Air Pollutants for Polyvinyl Chloride and Copolymers Production.

APPENDIX A

Referenced Documents

Appendix A
Reference Documents
(Amended ~~August 24, 2017~~ _____, 2024)

ENVIRONMENTAL PROTECTION AGENCY REGULATIONS REFERENCE DOCUMENTS - INCORPORATED BY REFERENCE IN CHAPTERS 13 and 14

NEW SOURCE PERFORMANCE STANDARDS NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS

The complete text of all finalized EPA regulations incorporated into these regulations is located in the documents listed below. Amendments, revisions, or clarifications of EPA regulations which have been codified in the CFR, as well as of finalized regulations which have not yet been codified, are not included in this listing and interested parties are advised to consult the Federal Register for such amendments or revisions.

CROSS REFERENCE LISTING

Chapter 13 (Part 13.2)	40 CFR Part 60
Subpart A	Subpart A
Subpart D	Subpart D
Subpart Da	Subpart Da
Subpart Db	Subpart Db
Subpart Dc	Subpart Dc
Subpart E	Subpart E
Subpart Ea	Subpart Ea
Subpart Eb	Subpart Eb
Subpart Ec	Subpart Ec
Subpart F	Subpart F
Subpart G	Subpart G
Subpart Ga	Subpart Ga
Subpart H	Subpart H

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Subpart J	Subpart J
Subpart Ja	Subpart Ja
Subpart K	Subpart K
Subpart Ka	Subpart Ka
Subpart Kb	Subpart Kb
Subpart L	Subpart L
Subpart La	Subpart La
Subpart M	Subpart M
Subpart N	Subpart N
Subpart Na	Subpart Na
Subpart 0	Subpart 0
Subpart P	Subpart P
Subpart Q	Subpart Q
Subpart R	Subpart R
Subpart S	Subpart S
Subpart T	Subpart T
Subpart U	Subpart U
Subpart V	Subpart V
Subpart W	Subpart W
Subpart X	Subpart X
Subpart Y	Subpart Y
Subpart Z	Subpart Z
Subpart AA	Subpart AA
Subpart AAa	Subpart AAa
Subpart AAb	Subpart AAb
Subpart BB	Subpart BB
Subpart BBa	Subpart BBa

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Subpart CC	Subpart CC
Subpart DD	Subpart DD
Subpart EE	Subpart EE
Subpart GG	Subpart GG
Subpart HH	Subpart HH
Subpart KK	Subpart KK
Subpart KKa	Subpart KKa
Subpart LL	Subpart LL
Subpart MM	Subpart MM
Subpart MMa	Subpart MMa
Subpart NN	Subpart NN
Subpart PP	Subpart PP
Subpart QQ	Subpart QQ
Subpart RR	Subpart RR
Subpart SS	Subpart SS
Subpart TT	Subpart TT
Subpart UU	Subpart UU
Subpart VV	Subpart VV
Subpart VVa	Subpart VVa
Subpart VVb	Subpart VVb
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Subpart XX	Subpart XX
Subpart XXa	Subpart XXa
Subpart BBB	Subpart BBB
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Subpart FFF	Subpart FFF
Subpart GGG	Subpart GGG
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Subpart IIIa	Subpart IIIa
Subpart JJJ	Subpart JJJ
Subpart KKK	Subpart KKK
Subpart LLL	Subpart LLL
Subpart NNN	Subpart NNN
Subpart NNNa	Subpart NNNa
Subpart OOO	Subpart OOO
Subpart PPP	Subpart PPP
Subpart QQQ	Subpart QQQ
Subpart RRR	Subpart RRR
Subpart RRRa	Subpart RRRa
Subpart SSS	Subpart SSS
Subpart TTT	Subpart TTT
Subpart TTTa	Subpart TTTa
Subpart UUU	Subpart UUU
Subpart VVV	Subpart VVV
Subpart WWW	Subpart WWW
Subpart XXX	Subpart XXX
Subpart AAAA	Subpart AAAA
Subpart CCCC	Subpart CCCC
Subpart EEEE	Subpart EEEE
Subpart IIII	Subpart IIII
Subpart JJJJ	Subpart JJJJ
Subpart KKKK	Subpart KKKK
Subpart LLLL	Subpart LLLL
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Subpart OOOOa	Subpart OOOOa
Subpart OOOOb	Subpart OOOOb
Subpart TTTT	Subpart TTTT
Subpart TTTTa	Subpart TTTTa

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Subpart P	Subpart P
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Subpart Y	Subpart Y

Chapter 14 (Part 14.5)	40 CFR Part 63
~~Subpart BB~~	~~Subpart BB~~
~~Subpart FF~~	~~Subpart FF~~
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Subpart G	Subpart G

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Subpart I	Subpart I
Subpart L	Subpart L
Subpart M	Subpart M
Subpart N	Subpart N
Subpart O	Subpart O
Subpart Q	Subpart Q
Subpart R	Subpart R
Subpart S	Subpart S
Subpart T	Subpart T
Subpart U	Subpart U
Subpart W	Subpart W
Subpart X	Subpart X
Subpart AA	Subpart AA
Subpart BB	Subpart BB
Subpart CC	Subpart CC
Subpart DD	Subpart DD
Subpart EE	Subpart EE
Subpart GG	Subpart GG
Subpart HH	Subpart HH
Subpart II	Subpart II
Subpart JJ	Subpart JJ
Subpart KK	Subpart KK
Subpart LL	Subpart LL
Subpart MM	Subpart MM
Subpart NN	Subpart NN

Chapter 14 (Part 14.5)	40 CFR Part 63
Subpart OO	Subpart OO
Subpart PP	Subpart PP
Subpart QQ	Subpart QQ
Subpart RR	Subpart RR
Subpart SS	Subpart SS
Subpart TT	Subpart TT
Subpart UU	Subpart UU
Subpart VV	Subpart VV
Subpart WW	Subpart WW
Subpart XX	Subpart XX
Subpart YY	Subpart YY
Subpart CCC	Subpart CCC
Subpart DDD	Subpart DDD
Subpart EEE	Subpart EEE
Subpart GGG	Subpart GGG
Subpart HHH	Subpart HHH
Subpart III	Subpart III
Subpart JJJ	Subpart JJJ
Subpart LLL	Subpart LLL
Subpart MMM	Subpart MMM
Subpart NNN	Subpart NNN
Subpart OOO	Subpart OOO
Subpart PPP	Subpart PPP
Subpart QQQ	Subpart QQQ
Subpart RRR	Subpart RRR
Subpart UUU	Subpart UUU
Subpart VVV	Subpart VVV
Subpart XXX	Subpart XXX

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Subpart AAAA	Subpart AAAA
Subpart CCCC	Subpart CCCC
Subpart DDDD	Subpart DDDD
Subpart EEEE	Subpart EEEE
Subpart FFFF	Subpart FFFF
Subpart GGGG	Subpart GGGG
Subpart HHHH	Subpart HHHH
Subpart IIII	Subpart IIII
Subpart JJJJ	Subpart JJJJ
Subpart KKKK	Subpart KKKK
Subpart MMMM	Subpart MMMM
Subpart NNNN	Subpart NNNN
Subpart OOOO	Subpart OOOO
Subpart PPPP	Subpart PPPP
Subpart QQQQ	Subpart QQQQ
Subpart RRRR	Subpart RRRR
Subpart SSSS	Subpart SSSS
Subpart TTTT	Subpart TTTT
Subpart UUUU	Subpart UUUU
Subpart VVVV	Subpart VVVV
Subpart WWWW	Subpart WWWW
Subpart XXXX	Subpart XXXX
Subpart YYYY	Subpart YYYY
Subpart ZZZZ	Subpart ZZZZ
Subpart AAAAA	Subpart AAAAA
Subpart BBBBB	Subpart BBBBB
Subpart CCCCC	Subpart CCCCC
Subpart DDDDD	Subpart DDDDD

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Subpart EEEEE	Subpart EEEEE
Subpart FFFFF	Subpart FFFFF
Subpart GGGGG	Subpart GGGGG
Subpart HHHHH	Subpart HHHHH
Subpart IIIII	Subpart IIIII
Subpart JJJJJ	Subpart JJJJJ
Subpart KKKKK	Subpart KKKKK
Subpart LLLLL	Subpart LLLLL
Subpart MMMMM	Subpart MMMMM
Subpart NNNNN	Subpart NNNNN
Subpart PPPPP	Subpart PPPPP
Subpart QQQQQ	Subpart QQQQQ
Subpart RRRRR	Subpart RRRRR
Subpart SSSSS	Subpart SSSSS
Subpart TTTTT	Subpart TTTTT
Subpart UUUUU	Subpart UUUUU
Subpart WWWWW	Subpart WWWWW
Subpart YYYYY	Subpart YYYYY
Subpart ZZZZZ	Subpart ZZZZZ
Subpart BBBBBB	Subpart BBBBBB
Subpart CCCCCC	Subpart CCCCCC
Subpart DDDDDD	Subpart DDDDDD
Subpart EEEEEE	Subpart EEEEEE
Subpart FFFFFF	Subpart FFFFFF
Subpart GGGGGG	Subpart GGGGGG
Subpart HHHHHH	Subpart HHHHHH
Subpart JJJJJJ	Subpart JJJJJJ

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Subpart LLLLLL	Subpart LLLLLL
Subpart MMMMMM	Subpart MMMMMM
Subpart NNNNNN	Subpart NNNNNN
Subpart OOOOOO	Subpart OOOOOO
Subpart PPPPPP	Subpart PPPPPP
Subpart QQQQQQ	Subpart QQQQQQ
Subpart RRRRRR	Subpart RRRRRR
Subpart SSSSSS	Subpart SSSSSS
Subpart TTTTTT	Subpart TTTTTT
Subpart VVVVVV	Subpart VVVVVV
Subpart WWWWWW	Subpart WWWWWW
Subpart XXXXXX	Subpart XXXXXX
Subpart YYYYYY	Subpart YYYYYY
Subpart ZZZZZZ	Subpart ZZZZZZ
Subpart AAAAAAA	Subpart AAAAAAA
Subpart BBBBBBB	Subpart BBBBBBB
Subpart CCCCCCC	Subpart CCCCCCC
Subpart DDDDDDD	Subpart DDDDDDD
Subpart HHHHHHH	Subpart HHHHHHH

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Subpart A	Subpart A
Subpart C	Subpart C
Subpart D	Subpart D
Subpart E	Subpart E
Subpart F	Subpart F
Subpart G	Subpart G