

ENVIRONMENTAL PROTECTION AGENCY

OFFICE OF ENFORCEMENT

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Standards of Performance
for
New Stationary Sources
(40 CFR Part 60)

NATIONAL ENFORCEMENT INVESTIGATIONS CENTER

DENVER, COLORADO

OCTOBER 1976



Environmental Protection Agency
Office of Enforcement

SUMMARY OF STANDARDS OF PERFORMANCE FOR
NEW STATIONARY SOURCES
(40 CFR Part 60)

October 1976

National Enforcement Investigations Center
Denver, Colorado

Information in this report has been excerpted by NEIC from the Code of Federal Regulations, Title 40, Part 60. Subpart A, §60.2 defines a stationary source as any building, structure, facility, or installation which emits or may emit any air pollutant.

CONTENTS

Subpart A - General Provisions	1
Subpart B - Adoption and Submittal of State Plans . .	1
Subpart C - [Reserved]	1
Subpart D - Fossil-Fuel Fired Steam Generators	1
Subpart E - Incinerators	3
Subpart F - Portland Cement Plants	4
Subpart G - Nitric Acid Plants	5
Subpart H - Sulfuric Acid Plants	5
Subpart I - Asphalt Concrete Plants	6
Subpart J - Petroleum Refineries	7
Subpart K - Storage Vessels for Petroleum Liquids . .	8
Subpart L - Secondary Lead Smelters	9
Subpart M - Secondary Brass and Bronze Ingot Production Plants	10
Subpart N - Iron and Steel Plants	10
Subpart O - Sewage Treatment Plants	11
Subpart P - Primary Copper Smelters	12
Subpart Q - Primary Zinc Smelters	13
Subpart R - Primary Lead Smelters	14
Subpart S - Primary Aluminum Reduction Plants	15
Subpart T - Phosphate Fertilizer Industry: Wet-Process Phosphoric Acid Plants	16
Subpart U - Phosphate Fertilizer Industry: Superphosphoric Acid Plants	16
Subpart V - Phosphate Fertilizer Industry: Diammonium Phosphate Plants	17
Subpart W - Phosphate Fertilizer Industry: Triple Superphosphate Plants	17
Subpart X - Phosphate Fertilizer Industry: Granular Triple Superphosphate Storage Facilities	18
Subpart Y - Coal Preparation Plants	18
Subpart Z - Ferroalloy Production Facilities	19
Subpart AA- Steel Plants: Electric Arc Furnaces . . .	21

SUBPART A
GENERAL PROVISIONS

SUBPART B
ADOPTION AND SUBMITTAL OF STATE PLANS FOR DESIGNATED FACILITIES

Proposed: October 7, 1974
Final: November 17, 1975
Effective: December 17, 1975

SUBPART C
[RESERVED]

SUBPART D
STANDARDS OF PERFORMANCE FOR FOSSIL-FUEL FIRED STEAM GENERATORS

Proposed: August 17, 1971
Final: December 23, 1971
Effective: December 23, 1971
(and apply to sources, the
construction or modification
of which was commenced after
August 17, 1971)

Revised Proposed: September 11, 1974
Revised Final: October 6, 1975
Revised Effective: October 6, 1975

60.42 STANDARD FOR PARTICULATE MATTER

- (a) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any affected facility any gases which:
- (1) Contain particulate matter in excess of 0.18 g per million cal heat input (0.10 lb per million Btu) derived from fossil fuel.

- (2) Exhibit greater than 20 percent opacity except a maximum of 40 percent opacity shall be permissible for not more than 2 minutes in any hour.

60.43 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . any gases which contain sulfur dioxide in excess of:
- (1) 1.4 g per million cal heat input (0.80 lb per million Btu) derived from liquid fossil fuel.
 - (2) 2.2 g per million cal heat input (1.2 lb per million Btu) derived from solid fossil fuel.
- (b) When different fossil fuels are burned simultaneously in any combination, the applicable standard shall be determined by proration using the following formula:

$$\frac{y(1.4) + z(2.2)}{y + z}$$

where:

y is the percentage of total heat input derived from liquid fossil fuel, and

z is the percentage of total heat input derived from solid fossil fuel.

- (c) Compliance shall be based on the total heat input from all fossil fuels burned, including gaseous fuels.

60.44 STANDARD FOR NITROGEN OXIDES

- (a) On or after . . . any gases which contain nitrogen oxides, expressed as NO₂ in excess of:
- (1) 0.36 g per million cal heat input (0.20 lb per million Btu) derived from gaseous fossil fuel.
 - (2) 0.54 g per million cal heat input (0.30 lb per million Btu) derived from liquid fossil fuel.
 - (3) 1.26 g per million cal heat input (0.70 lb per million Btu) derived from solid fossil fuel (except lignite or a solid fossil fuel containing 25 percent, by weight, or more of coal refuse).

- (b) When different fossil fuels are burned simultaneously in any combination, the applicable standard shall be determined by proration. Compliance shall be determined by using the following formula:

$$\frac{x(0.36) + y(0.54) + z(1.26)}{x + y + z}$$

where:

x is the percentage of total heat input derived from gaseous fossil fuel,

y is the percentage of total heat input derived from liquid fossil fuel, and

z is the percentage of total heat input derived from solid fossil fuel (except lignite or a solid fossil fuel containing 25 percent, by weight, or more of coal refuse).

When lignite or a solid fossil fuel containing 25 percent by weight, or more of coal refuse is burned in combination with gaseous, liquid or other solid fossil fuel, the standard for nitrogen oxides does not apply.

SUBPART E

STANDARDS OF PERFORMANCE FOR INCINERATORS

Proposed: August 17, 1971
 Final: December 23, 1971
 Effective: December 23, 1971 (and apply to sources, the construction or modification of which was commenced after August 17, 1971)

60.52 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . any gases which contain particulate matter in excess of 0.18 g/dscm (0.08 gr/dscf) corrected to 12 percent CO₂.

SUBPART F

STANDARDS OF PERFORMANCE FOR PORTLAND CEMENT PLANTS

Proposed: August 17, 1971
Final: December 23, 1971
Effective: December 23, 1971
(and apply to sources, the
construction or modification
of which was commenced after
August 17, 1971)

Revised Proposed: September 11, 1974
Revised Final: October 6, 1975
Revised Effective: October 6, 1975

60.62 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . to be discharged into the atmosphere from any kiln any gases which:
 - (1) Contain particulate matter in excess of 0.15 kg per metric ton of feed (dry basis) to the kiln (0.30 lb per ton).
 - (2) Exhibit greater than 10 percent opacity.
- (b) On and after . . . from any clinker cooler any gases which:
 - (1) Contain particulate matter in excess of 0.050 kg per metric ton of feed (dry basis) to the kiln (0.10 lb per ton).
 - (2) Exhibit 10 percent opacity, or greater.
- (c) On and after . . . from any affected facility other than the kiln and clinker cooler any gases which exhibit 10 percent opacity, or greater.

SUBPART G

STANDARDS OF PERFORMANCE FOR NITRIC ACID PLANTS

Proposed: August 17, 1971	Revised Proposed: September 11, 1974
Final: December 23, 1971	Revised Final: October 6, 1975
Effective: December 23, 1971	Revised Effective: October 6, 1975

(and apply to sources, the construction or modification of which was commenced after August 17, 1971)

60.72 STANDARD FOR NITROGEN OXIDES

- (a) On and after . . . from any affected facility any gases which:
- (1) Contain nitrogen oxides, expressed as NO₂ in excess of 1.5 kg per metric ton of acid produced (3.0 lb per ton), the production being expressed as 100 percent nitric acid.
 - (2) Exhibit 10 percent opacity, or greater.

SUBPART H

STANDARDS OF PERFORMANCE FOR SULFURIC ACID PLANTS

Proposed: August 17, 1971	Revised Proposed: September 11, 1974
Final: December 23, 1971	Revised Final: October 6, 1975
Effective: December 23, 1971	Revised Effective: October 6, 1975

(and apply to sources, the construction or modification of which was commenced after August 17, 1971)

60.82 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . from any affected facility any gases which contain sulfur dioxide in excess of 2 kg per metric

ton of acid produced (4 lb per ton), the production being expressed as 100 percent H_2SO_4 .

60.83 STANDARD FOR ACID MIST

- (a) On and after . . . from any affected facility any gases which:
- (1) Contain acid mist, expressed as H_2SO_4 , in excess of 0.075 kg per metric ton of acid produced (0.15 lb per ton), the production being expressed as 100 percent H_2SO_4 .
 - (2) Exhibit 10 percent opacity, or greater.

SUBPART I

STANDARD OF PERFORMANCE FOR ASPHALT CONCRETE PLANTS

Proposed: June 11, 1973

Final: March 8, 1974

Effective: February 28, 1974

(and apply to sources, the construction or modification of which was commenced after June 11, 1973)

Revised Proposed: September 11, 1974

Revised Final: October 6, 1975

Revised Effective: October 6, 1975

60.92 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any affected facility any gases which:
- (1) Contain particulate matter in excess of 90 mg/dscm (0.04 gr/dscf).
 - (2) Exhibit 20 percent opacity, or greater.

SUBPART J

STANDARDS OF PERFORMANCE FOR PETROLEUM REFINERIES

Proposed: June 11, 1973
Final: March 8, 1974
Effective: February 28, 1974 (and apply to sources, the construction or modification of which was commenced after June 11, 1973)

60.102 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any fluid catalytic cracking unit catalyst regenerator or from any fluid catalytic cracking unit incinerator-waste heat boiler:
- (1) Particulate matter in excess of 1.0 kg/1,000 kg (1.0 lb/1,000 lb) of coke burn-off in the catalyst regenerator.
 - (2) Gases exhibiting 30 percent opacity or greater, except for 3 minutes in any 1 hour.
- (b) In those instances in which auxiliary liquid or solid fossil fuels are burned in the fluid catalytic cracking unit incinerator-waste heat boiler, particulate matter in excess of that permitted by paragraph (a)(1) of this section may be emitted to the atmosphere, except that the incremental rate of particulate emissions shall not exceed 0.18 g/million cal (0.10 lb/million Btu) of heat input attributable to such liquid or solid fuel.

60.103 STANDARD FOR CARBON MONOXIDE

- (a) On and after . . . from the fluid catalytic cracking unit catalyst regenerator any gases which contain carbon monoxide in excess of 0.050 percent by volume.

60.104 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . no owner or operator subject to the provisions of this subpart shall burn in any fuel gas combustion device any fuel gas which contains H₂S in excess of 230 mg/dscm (0.10 gr/dscf), except as provided in paragraph (b) of this section. The combustion of process upset gas in a flare, or the combustion in a flare of process gas or fuel gas which is released to the flare as a result of relief valve leakage, is exempt from this paragraph.
- (b) The owner or operator may elect to treat the gases resulting from the combustion of fuel gas in a manner which limits the release of SO₂ to the atmosphere if it is shown to the satisfaction of the Administrator that this prevents SO₂ emissions as effectively as compliance with the requirements of paragraph (a) of this section.

SUBPART K

STANDARDS OF PERFORMANCE FOR STORAGE VESSELS FOR PETROLEUM LIQUIDS

Proposed: June 11, 1973
Final: March 8, 1974
Effective: February 28, 1974 (and apply to sources, the construction or modification of which was commenced after June 11, 1973)

60.112 STANDARD FOR HYDROCARBONS

- (a) The owner or operator of any storage vessel to which this subpart applies shall store petroleum liquids as follows:
- (1) If the true vapor pressure of the petroleum liquid, as stored, is equal to or greater than 78 mm Hg (1.5 psia) but not greater than 570 mm Hg (11.1 psia), the storage vessel shall be equipped with a floating roof, a vapor recovery system, or their equivalents.

- (2) If the true vapor pressure of the petroleum liquid as stored is greater than 570 mm Hg (11.1 psia), the storage vessel shall be equipped with a vapor recovery system or its equivalent.

SUBPART L

STANDARDS OF PERFORMANCE FOR SECONDARY LEAD SMELTERS

Proposed: June 11, 1973

Final: March 8, 1974

Effective: February 28, 1974

(and apply to sources, the construction or modification

of which was commenced after June 11, 1973)

Revised Proposed: September 11, 1974

Revised Final: October 6, 1975

Revised Effective: October 6, 1975

60.122 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from a blast (cupola) or reverberatory furnace any gases which:
 - (1) Contain particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).
 - (2) Exhibit 20 percent opacity or greater.
- (b) On and after . . . from any pot furnace any gases which exhibit 10 percent opacity or greater.

SUBPART M

STANDARDS OF PERFORMANCE FOR SECONDARY BRASS AND BRONZE
INGOT PRODUCTION PLANTS

Proposed: June 11, 1973

Final: March 8, 1974

Effective: February 28, 1974

(and apply to sources, the
construction or modifications
of which was commenced after June 11, 1973)

Revised Proposed: September 11, 1974

Revised Final: October 6, 1975

Revised Effective: October 6, 1975

60.132 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from a reverberatory furnace any gases which:
- (1) Contain particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).
 - (2) Exhibit 20 percent opacity or greater.
- (b) On and after . . . from any blast (cupola) or electric furnace any gases which exhibit 10 percent opacity or greater.

SUBPART N

STANDARDS OF PERFORMANCE FOR IRON AND STEEL PLANTS

Proposed: June 11, 1973

Final: March 8, 1974

Effective: February 28, 1974 (and apply to
sources, the construction or
modification of which was commenced
after June 11, 1973)

60.142 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any affected facility any gases which:
- (1) Contain particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).
 - (2) [Reserved]

SUBPART 0

STANDARDS OF PERFORMANCE FOR SEWAGE TREATMENT PLANTS

Proposed: June 11, 1973	Revised Proposed: September 11, 1974
Final: March 8, 1974	Revised Final: October 6, 1975
Effective: February 28, 1974	Revised Effective: October 6, 1975

(and apply to sources, the construction or modification of which was commenced after June 11, 1973)

60.152 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . no owner or operator of any sewage sludge incinerator subject to the provisions of this subpart shall discharge or cause the discharge into the atmosphere of:
- (1) Particulate matter at a rate in excess of 0.65 g/kg dry sludge input (1.30 lb/ton dry sludge input).
 - (2) Any gases which exhibit 20 percent opacity or greater.

SUBPART P

STANDARD OF PERFORMANCE FOR PRIMARY COPPER SMELTERS

Proposed: October 16, 1974
Final: January 15, 1976
Effective: December 30, 1975 (and apply to sources, the construction or modification of which was commenced after October 16, 1974)

60.162 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any dryer any gases which contain particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).

60.163 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . from any roaster, smelting furnace, or copper converter any gases which contain sulfur dioxide in excess of 0.065 percent by volume, except as provided in paragraphs (b) and (c) of this section.
- (b) Reverberatory smelting furnaces shall be exempted from paragraph (a) of this section during periods when the total smelter charge at the primary copper smelter contains a high level of volatile impurities.
- (c) A change in the fuel combusted in a reverberatory furnace shall not be considered a modification under this part.

60.164 STANDARD FOR VISIBLE EMISSIONS

- (a) On and after . . . from any dryer any visible emissions which exhibit greater than 20 percent opacity.
- (b) On and after . . . from any affected facility that uses a sulfuric acid to comply with the standard set forth in §60.163, any visible emissions which exhibit greater than 20 percent opacity.

SUBPART Q

STANDARDS OF PERFORMANCE FOR PRIMARY ZINC SMELTERS

Proposed: October 16, 1974
Final: January 15, 1976
Effective: December 30, 1975 (and apply to sources, the construction or modification of which was commenced after October 16, 1974)

60.172 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any sintering machine any gases which contain particulate matter in excess of 50 mg/dscm (0.022 gr/dscf).

60.173 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . from any roaster any gases which contain sulfur dioxide in excess of 0.065 percent by volume.
- (b) Any sintering machine which eliminates more than 10 percent of the sulfur initially contained in the zinc sulfide ore concentrates will be considered as a roaster under paragraph (a) of this section.

60.174 STANDARD FOR VISIBLE EMISSIONS

- (a) On and after . . . from any sintering machine any visible emissions which exhibit greater than 20 percent opacity.
- (b) On and after . . . from any affected facility that uses a sulfuric acid plant to comply with the standard set forth in §60.173, any visible emissions which exhibit greater than 20 percent opacity.

SUBPART R

STANDARDS OF PERFORMANCE FOR PRIMARY LEAD SMELTERS

Proposed: October 16, 1974
Final: January 15, 1976
Effective: December 30, 1975 (and apply to sources, the construction or modification of which was commenced after October 16, 1974)

60.182 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from any blast furnace, dross reverberatory furnace, or sintering machine discharge end any gases which contain particulate matter in excess of 59 mg/dscm (0.022 gr/dscf).

60.183 STANDARD FOR SULFUR DIOXIDE

- (a) On and after . . . from any sintering machine, electric smelting furnace, or converter gases which contain sulfur dioxide in excess of 0.065 percent by volume.

60.184 STANDARD FOR VISIBLE EMISSIONS

- (a) On and after . . . from any blast furnace, dross reverberatory furnace, or sintering machine discharge end any visible emissions which exhibit greater than 20 percent opacity.
- (b) On and after . . . from any affected facility that uses a sulfuric acid plant to comply with the standard set forth in §60.183, any visible emissions which exhibit greater than 20 percent opacity.

SUBPART S

STANDARDS OF PERFORMANCE FOR PRIMARY ALUMINUM REDUCTION PLANTS

Proposed: October 23, 1974
Final: January 26, 1976
Effective: January 26, 1976 (and apply to sources, the construction or modification of which was commenced after October 23, 1974)

60.192 STANDARD FOR FLUORIDES

- (a) On and after . . . from any affected facility any gases which contain total fluorides in excess of:
- (1) 1 kg/metric ton (2 lb/ton) of aluminum produced for vertical stud Soderberg and horizontal stud Soderberg plants;
 - (2) 0.95 kg/metric ton (1.9 lb/ton) of aluminum produced for potroom groups at prebake plants; and
 - (3) 0.05 kg/metric ton (0.1 lb/ton) of aluminum equivalent for anode bake plants.

60.193 STANDARD FOR VISIBLE EMISSIONS

- (a) On and after . . . to be discharged into the atmosphere:
- (1) From any potroom group any gases which exhibit 10 percent opacity or greater, or
 - (2) From any anode bake plant any gases which exhibit 20 percent opacity or greater.

SUBPART T

STANDARDS OF PERFORMANCE FOR THE PHOSPHATE FERTILIZER INDUSTRY:
WET-PROCESS PHOSPHORIC ACID PLANTS

Proposed: October 22, 1974
Final: August 6, 1975
Effective: August 4, 1975 (and apply to
sources, the construction or
modification of which commenced
after October 22, 1974)

60.202 STANDARD FOR FLUORIDES

- (a) On and after . . . from any affected facility any gases which contain total fluorides in excess of 10.0 g/metric ton of equivalent P_2O_5 feed (0.020 lb/ton).

SUBPART U

STANDARDS OF PERFORMANCE FOR THE PHOSPHATE FERTILIZER INDUSTRY:
SUPERPHOSPHORIC ACID PLANTS

Proposed: October 22, 1974
Final: August 6, 1975
Effective: August 4, 1975 (and apply to
sources, the construction or
modification of which was commenced
after October 22, 1974)

60.212 STANDARD FOR FLUORIDES

- (a) On and after . . . from any affected facility any gases which contain total fluorides in excess of 5.0 g/metric ton of equivalent P_2O_5 feed (0.010 lb/ton).

SUBPART V

STANDARDS OF PERFORMANCE FOR THE PHOSPHATE FERTILIZER INDUSTRY:
DIAMMONIUM PHOSPHATE PLANTS

Proposed: October 22, 1974
Final: August 6, 1975
Effective: August 4, 1975 (and apply to sources, the construction or modification of which was commenced after October 22, 1974)

60.222 STANDARD FOR FLUORIDES

- (a) On and after the . . . from any affected facility any gases which contain total fluorides in excess of 30 g/metric ton of equivalent P_2O_5 feed (0.060 lb/ton).

SUBPART W

STANDARD OF PERFORMANCE FOR THE PHOSPHATE FERTILIZER INDUSTRY:
TRIPLE SUPERPHOSPHATE PLANTS

Proposed: October 22, 1974
Final: August 6, 1975
Effective: August 4, 1975 (and apply to sources, the construction or modification of which was commenced after October 22, 1974)

60.232 STANDARD FOR FLUORIDES

- (a) On and after . . . from any affected facility any gases which contain total fluorides in excess of 100 g/metric ton of equivalent P_2O_5 feed (0.20 lb/ton).

SUBPART X

STANDARDS OF PERFORMANCE FOR THE PHOSPHATE FERTILIZER INDUSTRY:
GRANULAR TRIPLE SUPERPHOSPHATE STORAGE FACILITIES

Proposed: October 22, 1974
 Final: August 6, 1975
 Effective: August 4, 1975 (and apply to sources, the construction or modification of which was commenced after October 22, 1974)

60.242 STANDARD FOR FLUORIDES

- (a) On and after . . . from any affected facility any gases which contain total fluorides in excess of 0.25 g/hr/metric ton of equivalent P_2O_5 stored (5.0×10^{-4} lb/hr/ton of equivalent P_2O_5 stored).

SUBPART Y

STANDARDS OF PERFORMANCE FOR COAL PREPARATION PLANTS

Proposed: October 24, 1974
 Final: January 15, 1976
 Effective: January 15, 1976 (and apply to thermal dryers, pneumatic coal cleaners, coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems, the construction or modification of which was commenced after October 24, 1974)

60.252 STANDARDS FOR PARTICULATE MATTER

- (a) On and after . . . from any thermal dryer gases which:

- (1) Contain particulate matter in excess of 0.070 g/dscm (0.031 gr/dscf).
 - (2) Exhibit 20 percent opacity or greater.
- (b) On and after . . . from any pneumatic coal cleaning equipment, gases which:
- (1) Contain particulate matter in excess of 0.040 g/dscm (0.018 gr/dscf).
 - (2) Exhibit 10 percent opacity or greater.
- (c) On and after . . . from any coal processing and conveying equipment, coal storage system, or coal transfer and loading system processing coal, gases which exhibit 20 percent opacity or greater.

SUBPART Z

STANDARDS OF PERFORMANCE FOR FERROALLOY PRODUCTION FACILITIES

Proposed: October 21, 1974
Final: April 23, 1976
Effective: June 4, 1976

60.262 STANDARDS FOR PARTICULATE MATTER

- (a) On and after . . . from any electric submerged arc furnace any gases which:
- (1) Exit from a control device and contain particulate matter in excess of 0.45 kg/MW-hr (0.99 lb/MW-hr) while silicon metal, ferrosilicon, calcium silicon, or silicomanganese zirconium is being produced.
 - (2) Exit from a control device and contain particulate matter in excess of 0.23 kg/MW-hr (0.51 lb/MW-hr) while high-carbon ferrochrome, charge chrome, standard ferromanganese, silicomanganese, calcium carbide, ferrochrome silicon, ferromanganese silicon, or silvery iron is being produced.

- (3) Exit from a control device and exhibit 15 percent opacity or greater.
 - (4) Exit from an electric submerged arc furnace and escape the capture system and are visible without the aid of instruments. The requirements under this subparagraph apply only during periods when flow rates are being established under §60.265(d).
 - (5) Escape the capture system at the tapping station and are visible without the aid of instruments for more than 40 percent of each tapping period. There are no limitations on visible emissions under this subparagraph when a blowing tap occurs. The requirements under this subparagraph apply only during periods when flow rates are being established under §60.265(d).
- (b) On and after the date on which the performance test required to be conducted by §60.8 is completed, no owner or operator subject to the provisions of this subpart shall cause to be discharged into the atmosphere from any dust-handling equipment any gases which exhibit 10 percent opacity or greater.

60.263 STANDARD FOR CARBON MONOXIDE

- (a) On and after . . . from any affected facility any gases which contain, on a dry basis, 20 or greater volume percent of carbon monoxide. Combustion of such gases under conditions acceptable to the Administrator shall constitute compliance with this section. Acceptable conditions include, but are not limited to, flaring of gases or use of gases as fuel for other processes.

SUBPART AA

STANDARDS OF PERFORMANCE FOR STEEL PLANTS: ELECTRIC ARC FURNACES

Proposed: October 21, 1974
Final: September 23, 1975
Effective: September 23, 1975 (and apply to electric arc furnaces and their associated dust-handling equipment, the construction or modification of which was commenced after October 21, 1974)

60.272 STANDARD FOR PARTICULATE MATTER

- (a) On and after . . . from an electric arc furnace any gases which:
- (1) Exit from a control device and contain particulate matter in excess of 12 mg/dscm (0.0052 gr/dscf).
 - (2) Exit from a control device and exhibit three percent opacity or greater.
 - (3) Exit from a shop and, due solely to operations of any EAF(s), exhibit greater than zero percent shop opacity except:
 - (i) Shop opacity greater than zero percent, but less than 20 percent, may occur during charging periods.
 - (ii) Shop opacity greater than zero percent, but less than 40 percent, may occur during tapping periods.
 - (iii) Opacity standards under paragraph (a)(3) of this section shall apply only during periods when flow rates and pressures are being established under §60.274(c) and (f).
 - (iv) Where the capture system is operated such that the roof of the shop is closed during the charge and the tap and emissions to the atmosphere are prevented until the roof is opened after completion of the charge or tap, the shop opacity standards under paragraph (a)(3) of

this section shall apply when the roof is opened and shall continue to apply for the length of time defined by the charging and/or tapping periods.

- (b) On and after . . . from dust-handling equipment any gases which exhibit 10 percent opacity or greater.