CAS

Number

Air Contaminant

Reporting

Threshold

(lbs/yr)

SOTA

Threshold (lbs/yr)

APPENDIX 1 TABLE A Reporting and SOTA thresholds (Potential to emit)

| Air Contaminant Total VOC | Reporting Threshold ¹ (in lbs/hour) 0.05 | SOTA Threshold ² (in tons/yr) 5.0 |
|---------------------------|-----------------------------------------------------|-------------------------------------------------------|
| TSP | 0.05 | 5.0 |
| PM-10 | 0.05 | 5.0 |
| NO_x | 0.05 | 5.0 |
| CO | 0.05 | 5.0 |
| SO2 | 0.05 | 5.0 |
| Each TXS | 0.01 | See Table B |
| Each HAP | See Table B | See Table B |
| Any *[other]* air con- | 0.05 | 5.0 |
| aminant | | |
| listed in footnote 3 | • | |

¹If a source emits an air contaminant that both belongs to an air contaminant class that appears on Table A and is also a HAP found on Table B, emissions of the air contaminant must be taken into consideration in a permit application in determining if the Table A reporting threshold is met, as well as if the Table B reporting threshold is met. If both the Table A and the Table B reporting thresholds are met, emissions of that air contaminant must be included in the emissions reported in application forms for both Table 1 air contaminants and Table 2 HAPs.

²If a source emits an air contaminant that appears on Table A and is also a HAP found on Table B, the lower of the two SOTA thresholds applies.

³Any 112(r) contaminant; any stratospheric ozone depleting substance, or any greenhouse gas.

TABLE B
Reporting and SOTA thresholds for HAPs
(Potential to emit)

| | | | | 51285 | 2,4–Dinitrophenol | 200 | 2,000 |
|--------|----------------------------|-----------|-----------|--------|-------------------------------|------------------|--------|
| | | Reporting | SOTA | 121142 | 2,4-Dinitrotoluene | 4 | 40 |
| CAS | | Threshold | Threshold | 123911 | 1,4–Dioxane | N/A^6 | 10,000 |
| Number | Air Contaminant | (lbs/yr) | (lbs/yr) | 122667 | 1,2–Diphenylhydrazine | 18 | 180 |
| 75070 | Acetaldehyde | 1,800 | 10,000 | 106898 | Epichlorohydrin | 400 | 4,000 |
| 60355 | Acetamide | 200 | 2,000 | 106887 | 1,2–Epoxybutane | 200 | 2,000 |
| 75058 | Acetonitrile | 800 | 8,000 | 140885 | Ethyl acrylate | 200 | 2,000 |
| 98862 | Acetophenone | 200 | 2,000 | 100414 | Ethyl benzene | 2,000 | 10,000 |
| 53963 | 2-Acetylaminofluorene | 1 | . 10 | 51796 | Ethyl carbamate | 160 | 1,600 |
| 107028 | Acrolein | 8 | 80 | 75003 | Ethyl chloride | 2,000 | 10,000 |
| 79061 | Acrylamide | 4 | 40 | 106934 | Ethylene dibromide | 20 | 200 |
| 79107 | Acrylic acid | 120 | 1,200 | 107062 | Ethylene dichloride | N/A ⁸ | 1,600 |
| 107131 | Acrylonitrile | 60 | 600 | 107211 | Ethylene glycol | 2,000 | 10,000 |
| 107051 | Allyl chloride | 200 | 2,000 | 151564 | Ethylene imine | 0.6 | 6 |
| 92671 | 4-Aminobiphenyl | 200 | 2,000 | 75218 | Ethylene oxide | 20 | 200 |
| 62533 | Aniline | 200 | 2,000 | 96457 | Ethylene thiourea | 120 | 1,200 |
| 90040 | o-Anisidine | 200 | 2,000 | 75343 | Ethylidene dichloride | 200 | 2,000 |
| 71432 | Benzene | N/A^3 | 4,000 | 50000 | Formaldehyde | 400 | 4,000 |
| 92875 | Benzidine | 0.06 | 0.6 | 76448 | Heptachlor | 4 | 40 |
| 98077 | Benzotrichloride | 1.2 | 12 | 118741 | Hexachlorobenzene | 2 | 20 |
| 100447 | Benzyl chloride | 20 | 200 | 87683 | Hexachlorobutadiene | 180 | 1,800 |
| 92524 | Biphenyl | 2,000 | 10,000 | 77474 | Hexachlorocyclopentadiene | 20 | 200 |
| 117817 | Bis(2-ethylhexyl)phthalate | 1000 | 10,000 | 67721 | Hexachloroethane | 1,000 | 10,000 |
| 542881 | Bis(chloromethyl)ether | 0.06 | 0.6 | 822060 | Hexamethylene-1,6-diisocyante | 4 | 40 |
| 75252 | Bromoform | 2,000 | 10,000 | 680319 | Hexamethylphosphoramide | 2 | 20 |
| 106990 | 1,3-Butadiene | 14 | 140 | 110543 | Hexane | 2,000 | 10,000 |
| | • | | | | | | |

| 133062 Captan 2,000 10,000 63252 Carbon disulfide 2,000 2,000 56235 Carbon tetrachloride N/A4 2,000 463581 Carbonyl sulfide 1,000 10,000 120809 Catechol 1,000 10,000 57749 Chlordane 2 20 782505 Chloroacetic acid 20 200 79118 Chloroacetic acid 20 200 532274 2-Chloroacetophenone 12 120 108907 Chlorobenzilate 80 80 67663 Chloroperne 200 2,000 1319773 Cresol 200 2,000 153874 O-Cresol 200 2,000 95487 O-Cresol 200 2,000 98828 Cumene 2,000 10,000 98828 Cumene 2,000 10,000 98828 Cumene 2,000 10,000 94757 2,4-D 2, | 156627 | Calcium cyanamide | 2,000 | 10,000 |
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| 75150 Carbon disulfide 200 2,000 463581 Carbon tetrachloride N/A4 2,000 120809 Catechol 1,000 10,000 133904 Chloramben 20 10,000 57749 Chlordane 2 20 7782505 Chlorine 20 200 532274 2-Chloroacetophenone 12 120 108907 Chlorobenzilate 80 80 67663 Chlorobenzilate 80 80 67663 Chloroprene 200 2,000 12998 Chloroprene 200 2,000 12998 Chloroprene 200 2,000 18394 m-Cresol 200 2,000 108445 p-Cresol 200 2,000 98828 Cumene 2,000 10,000 94757 2,4-D 2,00 10,000 94757 2,4-D 2,00 10,000 94757 2,4-D 2,00 1 | | | | 10,000 |
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| 120809 | | | | |
| 133904 Chloramben 20 10,000 7782505 Chloridane 2 20 78118 Chloroacetic acid 20 200 79118 Chloroacetophenone 12 120 532274 2-Chloroacetophenone 12 120 150907 Chlorobenzilate 80 80 67663 Chloroperen 20 200 125998 Chloroprene 20 2,000 1319773 Cresols/Cresylic acid 200 2,000 18384 m-Cresol 200 2,000 108394 m-Cresol 200 2,000 108445 p-Cresol 20 2,000 98828 Cumene 2,000 10,000 94757 2,4-D 2,000 10,000 334883 Diazomethane 20 2,000 334883 Diazomethane 20 2,000 132649 Dibenzofurans 1,00 10,000 16128 1,2-Dibromo-3-chloropropane <td></td> <td></td> <td></td> <td></td> | | | | |
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| 79118 Chloroacetic acid 20 200 532274 2-Chloroacetophenone 12 120 108907 Chlorobenzilate 80 80 67663 Chloromethyl ethyl ether 20 200 126998 Chloroprene 200 2,000 1319773 Cresols/Cresylic acid 200 2,000 95487 o-Cresol 200 2,000 108394 m-Cresol 200 2,000 98828 Cumene 2,000 10,000 94757 2,4-D 2,000 | | | | |
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| 108316 | 78591 | | 2,000 | 10,000 | 95476 | o–Xylenes | | 10,000 |
| | | | | | | | | |
| Table Tabl | | | | | 106423 | p–Xylenes | 2,000 | 10,000 |
| 74873 Methy chloride | | | | | | CHEMICAL COMPOUND | OI ACCEC | |
| 74873 | | | | | | CHEMICAL COMPOUND | CLASSES | |
| 17556 Methyl ethyl ketone 2,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 | | | | | | Antimony compounds14 | 1000 | 10,000 |
| Separate | | | | | 7783702 | | | , |
| 1909 | | | | | | | | |
| 108101 | | Methyl hydrazine | 12 | 120 | 1309644 | Antimony trioxide | | 2,000 |
| Compuned | | | | | 1345046 | | | |
| 1,000 1,000 1,000 734421 Arsine 1 10 10 10 10 10 10 10 | | | | | | | 1 | 10 |
| 1634044 Methyl tert butyl ether 2,000 10,000 — Beryllium compounds\(^{15}\) 16 16 16 101144 4,44 Methylene bicloride 2,000 10,000 10000 - Beryllium salts 0,004 0.04 0.04 10000 101079 4,44 Methylene diphenyl discocyanate 20 200 — Chromium compounds\(^{16}\) 1000 10,000 10,000 - Heavalent chromium compounds\(^{16}\) 1000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10,000 10, | | | | | 7794421 | | 1 | 10 |
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| Inc. | | | | | | | | |
| | 1011 | | | | | | | |
| 101779 | 75092 | | 2,000 | 10,000 | 130618 | | | 20 |
| 91203 | 101688 | Methylene diphenyl diisocyanate | | 200 | _ | Chromium compounds ¹⁶ | 1000 | 10,000 |
| 98953 | | | | | | | 0.4 | 4 |
| 2933 | | | | | | | 4000 | 40.000 |
| 1,000 | | | | | 10005727 | | | , |
| 2-Nitropropane | | | | | | | | |
| SAP\$35 N-Nitroso-M-methylurea 0.04 0.2 2 Coke own emissions 6 6 60 | | | | | | | | |
| N-Nitrosodimethylamine | | | | | | | | |
| N-Nitrosomorpholine 200 2,000 — Cyanide compounds 1,000 10,000 | | | | | | | | |
| 56382 Parathion 20 200 0151508 Potassium cyanide 20 200 82686 Pentachlorophenol 1.40 1.400 — Glycol ethers ¹⁹ 1.000 10,000 108952 Phenol 20 200 110805 2-Ethoxy ethanol 2,000 10,000 106503 P-Phenylendiamine 2,000 10,000 111762 Ethylene glycol monobutyl ether 2,000 10,000 75445 Phosphine 1,000 10,000 - Lead and compounds ²⁰ 2 20 7723140 Phosphorus 20 200 78002 Tetraethyl lead 2 20 85449 Phthalic anhydride 1,000 10,000 75741 Tetraethyl lead 2 20 120714 1,3-Propane sultone 6 6 6 10 10 4 4 2 2 2 123386 Propionaldehyde 1,000 10,000 - Mercury compounds ²² 2 2 2 78875 | | | | | | | 1,000 | 10,000 |
| Pentachlorophenol 140 | | Parathion | 20 | 200 | 0151508 | | 20 | |
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| De-Phenylenediamine | | | | | | | | |
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| S8449 | | | , | | | | | |
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| 114261 | | | | | | | | •• |
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| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | 12035722 | | | |
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| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | 2,000 | 189559 | 1,2:7,8-Dibenzopyrene | 2 | 20 |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | | | | | 57976 | , | 2 | 20 |
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| 121448 Triethylamine 2,000 10,000 13410010 Sodium selenate 20 200 1582098 Trifluralin 1,800 10,000 10102188 Sodium selenite 20 200 540841 2,2,4—Trimethylpentane 1,000 10,000 — Total dioxin and furans ²⁶ 0.00012 0.0012 | | | | | | | | |
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| 540841 2,2,4—Trimethylpentane 1,000 10,000 — Total dioxin and furans 26 0.00012 0.0012 | | | | 10,000 | | | | 200 |
| 108054 Vinyl acetate 200 2,000 | 540841 | 2,2,4-Trimethylpentane | 1,000 | 10,000 | | Total dioxin and furans ²⁶ | 0.00012 | 0.0012 |
| | 108054 | Vinyl acetate | 200 | 2,000 | | | | |

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³The reporting threshold for this air contaminant is based on hourly, rather than annual, emissions. Because this air contaminant is a TXS subject to the reporting threshold in Table A, the reporting threshold for this contaminant is 0.01 pounds per hour.

⁴See footnote 3.

⁵See footnote 3.

⁶See footnote 3

⁷Emissions of this air contaminant must be reported if emissions exceed either the hourly emissions reporting threshold for a TXS in Table A (.01 pounds per hour), or the annual emissions threshold listed above in Table B.

8See footnote 3.

⁹See footnote 7.

¹⁰See footnote 7.

¹¹See footnote 3.

12See footnote 3.

¹³See footnote 3.

14Some compounds or subgroups included in this chemical group are also individually named in this table. If a compound or subgroup is individually listed, the threshold listed for the compound or subgroup takes precedence over the threshold listed for the chemical group as a whole. If a compound or subgroup is not individually listed, the threshold for the entire chemical group applies to each compound or subgroup included in the chemical group.

¹⁵See footnote 14.

¹⁶See footnote 14.

¹⁷See footnote 14.

¹⁸See footnote 14.

¹⁹See footnote 14.

²⁰See footnote 14.

²¹See footnote 14.

²²See footnote 14.

²³See footnote 14.

²⁴See footnote 14.

²⁵See footnote 14.

²⁶As defined in EPA/625/3-87/012, Interim Procedures for Estimating Risks Associated with Exposure to Mixtures of Chorinated-p-Dioxins and Dibenzofurans.

New Rule, R.1994 d.502, effective October 3, 1994 (operative October 31, 1994).

See: 25 N.J.R. 3963(a), 25 N.J.R. 4836(a), 26 N.J.R. 793(a), 26 N.J.R. 3943(b).

Amended by R.1998 d.231, effective May 4, 1998 (operative June 12, 1998)

See: 29 N.J.R. 3521(a), 30 N.J.R. 1563(b).

Rewrote the appendix.

SUBCHAPTER 9. SULFUR IN FUELS

Subchapter Historical Note

Amendments to this subchapter which replaced the earlier numbering and text were adopted pursuant to authority of N.J.S.A. 13:1D–1 et seq. and were filed on August 10, 1978, as R.1978 d.276 to become effective on October 12, 1978. See: 10 N.J.R. 234(a), 10 N.J.R. 383(c). Amendments which changed the effective date of these rules to December 31, 1978, or such earlier date as formal federal approval is granted was filed on October 10, 1978 as R.1978 d.361. See: 10 N.J.R. 479(c). Further amendments which changed the effective date to July 12, 1979, were filed and became effective on January 10, 1979, as R.1979 d.10. See: 11 N.J.R. 63(c).

This subchapter was previously amended by R.1976 d.81, effective March 12, 1976 (See: 8 N.J.R. 181(a)) and R.1976 d.100, effective March 31, 1976 (See: 8 N.J.R. 222(a)). Formal federal approval for these amended rules was obtained on June 4, 1979.

7:27-9.1 Definitions

The following words and terms, when used in this subchapter, shall have the following meanings unless the context clearly indicates otherwise.

"Aerodynamic downwash" means the rapid descent of a plume to ground level with little dilution and dispersion as a result of alteration of background air flow characteristics caused by the presence of buildings or other obstacles in the vicinity of the emission point.

"Air quality simulation model" means a mathematical procedure for predicting the ambient air concentration of pollutants resulting from the dispersive properties of the atmosphere.

"Ambient air quality standard" means a limit on the concentration of a contaminant in the general outdoor atmosphere, which cannot be exceeded without causing or tending to cause injury to human health, welfare, animal or plant life, or property, or unreasonably interfering with the enjoyment of life and property, excluding all aspects of employer-employee relationship as to health and safety hazards.

"Carbon dioxide (CO₂)" means a colorless, odorless gas at standard conditions, having a molecular composition of one carbon atom and two oxygen atoms.

"Fuel" means gaseous, liquid, or liquefiable petroleum product (excluding coal) which is produced, manufactured, used or sold for the purpose of creating useful heat.

"Fuel oil" means a liquid or liquefiable petroleum product burned for lighting or for the generation of heat or power and derived directly or indirectly from crude oil.

"Mathematical combination" means the summation of the emissions from two or more stacks or chimneys and the regulation of those emissions as if they came from the same sources venting through a single stack.

"Motor vehicle" means any vehicle propelled otherwise than by muscular power, excepting such vehicles as run only upon rails or tracks.

"Municipal solid waste (MSW)" means residential, commercial, and institutional non-hazardous solid waste.

"Solid fuel" means solid material or any substance derived from solid material used or to be used for the purpose of creating useful heat and includes, but is not limited to, coal, gasified coal, liquified coal, solid solvent-refined coal, municipal solid waste, refuse-derived fuel, and wood.

"SSU viscosity" means the number of seconds it takes 60 cubic centimeters of an oil to flow through the standard orifice of a Saybolt Universal viscometer at 100 degrees Fahrenheit.

"Stack or chimney" means a flue, conduit or opening designed, constructed, and/or utilized for the purpose of emitting air contaminants into the outdoor air.

"Sulfur dioxide (SO₂)" means a colorless gas at standard conditions, having a molecular composition of one sulfur atom and two oxygen atoms.

"Viscosity" means the measure of a fluid's resistance to flow.

"Zone 1" means Atlantic, Cape May, Cumberland, and Ocean Counties.

"Zone 2" means Hunterdon, Sussex, and Warren Counties.

"Zone 3" means Burlington, Camden, Gloucester, and Mercer Counties except those municipalities included in Zone 6.

"Zone 4" means Bergen, Essex, Hudson, Middlesex, Monmouth, Morris, Passaic, Somerset, and Union Counties.

"Zone 5" means Salem County.

"Zone 6" means in Burlington County, the municipalities of Bass River Township, Shamong Township, Southampton Township, Tabernacle Township, Washington Township, Woodland Township, and in Camden County, Waterford Township.

As amended, R.1982 d.456, effective December 6, 1982 (operative February 4, 1983).

See: 13 N.J.R. 870(a), 14 N.J.R. 1452(a).

"Air quality simulation model", "Mathematical combination", "Municipal solid waste", and "solid fuel" defined.

Administrative correction to delete definition "Oxygen".

See: 23 N.J.R. 1166(b).

7:27-9.2 Sulfur content standards

- (a) No person shall store, offer for sale, sell, deliver or exchange in trade for use in New Jersey fuel which contains sulfur in excess of a percentage by weight set forth in Table 1 of this section, except as provided in (c), (d) and (e) below, and N.J.A.C. 7:27-9.5.
- (b) No person shall use fuel which contains sulfur in excess of a percentage by weight set forth in Table 1 of this section, except as provided in (c), (d), and (e) below, and N.J.A.C. 7:27–9.5.

TABLE 1 . MAXIMUM ALLOWABLE SULFUR IN FUEL

| | | | Percent Sulfur by Weight | | | |
|----------------------------------|------------------------------------------|-----------|--------------------------|--------------------|--------|-----------------|
| Typical Grades of Fuel Oil | Classification SSU Viscos at 100°F | | Zone 1 | Zone 2 & Zone 5 | Zone 3 | Zone 4 & Zone 6 |
| No. 2 & lighter | Less than equal to 45 cluding gases | or in- | 0.3% | 0.3% | 0.2% | 0.2% |

| | Percent Sulfur by Weight | | | | |
|----------------------|------------------------------------|--------------|--------|--------|----------|
| Typical Grades of | Classification by SSU Viscosity | Zone 2 & Zor | | | Zone 4 & |
| Fuel Oil | at 100°F | Zone 1 | Zone 5 | Zone 3 | Zone 6 |
| No. 4 | Greater than 45 | 2.0% | 0.7% | 0.3% | 0.3% |
| | but less than 145 | | | | |
| No 5 No 6 & | Equal to or | 2 00% | 1 00% | 0.5% | 0.30% |

greater than 145

heavier

(c) The provisions of (a) and (b) above shall not apply to fuels whose combustion causes sulfur dioxide emissions from any stack or chimney into the outdoor atmosphere which are demonstrated to the Department as not exceeding, at any time, those quantities of sulfur dioxide expressed in pounds per 1,000,000 British Thermal Units (BTU) gross heat input, set forth in Table 2 of this section.

TABLE 2 MAXIMUM ALLOWABLE SULFUR DIOXIDE EMISSIONS

| | | SO ₂ Emissions (lbs./10 6 BTU) | | | |
|---------------------------|------------------------------------|-------------------------------------------|----------|----------|--------|
| Typical Grades of | Classification by SSU Viscosity | | Zone 2 & | Zone 4 & | |
| Fuel Oil | at 100°F | Zone 1 | Zone 5 | Zone 3 | Zone 6 |
| No. 2 | Less than or equal to 45 | 0.32 | 0.32 | 0.21 | 0.21 |
| No. 4 | Greater than 45 but less than 145 | 2.10 | 0.74 | 0.32 | 0.32 |
| No. 5, No. 6 & heavier | Equal to or greater than 145 | 2.10 | 1.05 | 0.53 | 0.32 |

- (d) The provisions of (a) and (b) above shall not apply to fuels included in an alternative emission control plan based on a mathematical combination approved by the Department. Application for such approval shall be made to the Department in writing and must include:
 - 1. Certification that all source operations to be included in the mathematical combination are under the control of, or operated by, one person; and
 - 2. Certification that the total sulfur dioxide emissions from the mathematical combination during each 24-hour period will not exceed the quantity of sulfur dioxide expressed in pounds per million BTU gross heat input set forth in Table 2 of this section; and
 - 3. Certification that the total sulfur dioxide emissions from the mathematical combination during each 24-hour period will not exceed the maximum total weight of sulfur dioxide that all the sources in the mathematical combination were allowed to emit at the time of applying; and
 - 4. Identification of each fuel burning unit and stack to be included in the mathematical combination; and
 - 5. Identification of the grades of fuel to be burned in each unit, the maximum sulfur content of each fuel to be burned in each unit, the maximum gross heat input rate for each unit, the higher heating value of each fuel, and the annual fuel use and operating hours per year for each unit; and