## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| December 7, 1990<br>*September 8, 1998* | Acetaldehyde | 75-07-0 | 12.25 | 32.11 | 95.70 |
| January 8, 1999 | Acetamide | 60-35-5 | 1.65 | 4.33 | 12.92 |
| *June 15, 2001*<br>**August 13, 1999** | Acrolein | 107-02-8 | 1.98<br>**0.0001 lbs/hr** | 5.20<br>**0.0002 lbs/hr** | 15.50<br>**0.0005 lbs/hr** |
| December 7, 1990 | Acrylamide (or propenamide) | 79-06-1 | 0.03 | 0.07 | 0.20 |
| **August 13, 1999** | Acrylic acid | 79-10-7 | **3.00 lbs/hr** | **6.00 lbs/hr** | **16.06 lbs/hr** |
| December 7, 1990 | Acrylonitrile (or vinyl cyanide) | 107-13-1 | 0.11 | 0.30 | 0.89 |
| January 8, 1999 | Allyl chloride | 107-05-1 | 5.51 | 14.45 | 43.07 |
| January 8, 1999 | Aminoanthraquinone, 2- | 117-79-3 | 0.28 | 0.73 | 2.16 |
| *August 18, 2000*<br>**August 13, 1999** | Ammonia | 7664-41-7 | 6,610<br>**1.60 lbs/hr** | 17,300<br>**3.20 lbs/hr** | 51,700<br>**8.57 lbs/hr** |
| January 8, 1999 | Aniline | 62-53-3 | 20.66 | 54.18 | 161.50 |
| December 7, 1990<br>*June 15, 2001*<br>**August 13, 1999** | Arsenic and arsenic compounds*, inorganic | 7440-38-2 | 0.004<br><br>**0.0001 lbs/hr** | 0.01<br><br>**0.0002 lbs/hr** | 0.03<br><br>**0.0005 lbs/hr** |
| **August 13, 1999** | Arsine | 7784-42-1 | **0.08 lbs/hr** | **0.16 lbs/hr** | **0.43 lbs/hr** |
| June 1, 1990 | Asbestos | 1332-21-4 | 0.0005 | 0.001 | 0.004 |
| June 1, 1990<br>*August 18, 2000*<br>**August 13, 1999** | Benzene (including benzene from gasoline) | 71-43-2 | 1.14<br><br>**0.739 lbs/hr** | 2.99<br><br>**1.48 lbs/hr** | 8.91<br><br>**3.96 lbs/hr** |
| December 7, 1990 | Benzidine (and its salts) | 92-87-5 | 0.0002 | 0.0006 | 0.0018 |
| September 8, 1998<br>**August 13, 1999** | Benzyl Chloride | 100-44-7 | 0.67<br>**0.12 lbs/hr** | 1.77<br>**0.24 lbs/hr** | 5.27<br>**0.64 lbs/hr** |
| December 7, 1990 | Beryllium and beryllium compounds* | 7440-41-7 | 0.002 | 0.005 | 0.016 |
| December 7, 1990 | Bis(2-chloroethyl)ether (DCEE) | 111-44-4 | 0.05 | 0.12 | 0.36 |
| December 7, 1990 | Bis(chloromethyl)ether | 542-88-1 | 0.003 | 0.007 | 0.020 |
| September 8, 1998 | Bis(2-ethylhexyl)phthalate (DEHP) | 117-81-7 | 14 | 36 | 108 |
| December 7, 1990<br>*June 15, 2001* | Butadiene, 1,3- | 106-99-0 | 0.19 | 0.51 | 1.52 |
| June 1, 1990<br>*June 15, 2001* | Cadmium and cadmium compounds* | 7440-43-9 | 0.008 | 0.02 | 0.06 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| **August 13, 1999** | Carbon disulfide | 75-15-0 | **3.52 lbs/hr** | **7.04 lbs/hr** | **18.86 lbs/hr** |
| June 1, 1990<br>*June 15, 2001*<br>**August 13, 1999** | Carbon tetrachloride | 56-23-5 | 0.79<br><br>**1.08 lbs/hr** | 2.06<br><br>**2.16 lbs/hr** | 6.15<br><br>**5.78 lbs/hr** |
| June 1, 1990<br>*August 18, 2000* | Chlorinated dioxins & dibenzofurans | | 1.28E-06 | 3.35E-06 | 1.00E-05 |
| June 1, 1990<br>*August 18, 2000* | Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 67562-39-4 | 4.35E-04 | 1.14E-03 | 3.40E-03 |
| June 1, 1990<br>*August 18, 2000* | Heptachlorodibenzofuran, 1,2,3,4,7,8,9- | 55673-89-7 | 4.35E-04 | 1.14E-03 | 3.40E-03 |
| June 1, 1990<br>*August 18, 2000* | Heptachlorodibenzofuran, Total | 38998-75-3 | 4.35E-04 | 1.14E-03 | 3.40E-03 |
| June 1, 1990<br>*August 18, 2000* | Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8- | 35822-46-9 | 4.35E-04 | 1.14E-03 | 3.40E-03 |
| June 1, 1990<br>*August 18, 2000* | Heptachlorodibenzo-p-dioxin, total | 37871-00-4 | 4.35E-04 | 1.14E-03 | 3.40E-03 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzofuran, 1,2,3,4,7,8- | 70648-26-9 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzofuran, 1,2,3,6,7,8- | 57117-44-9 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzofuran, 1,2,3,7,8,9- | 72918-21-9 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzofuran, 2,3,4,6,7,8- | 60851-34-5 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzofuran, total | 55684-94-1 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8- | 39227-28-6 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8 | 57653-85-7 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9- | 19408-74-3 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Hexachlorodibenzo-p-dioxin, total | 34465-46-8 | 4.35E-05 | 1.14E-04 | 3.40E-04 |
| June 1, 1990<br>*August 18, 2000* | Octachlorodibenzofuran, 1,2,3,4,5,6,7,8- | 39001-02-0 | 9.00E-04 | 2.30E-03 | 6.80E-03 |
| June 1, 1990<br>*August 18, 2000* | Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8- | 3268-87-9 | 9.00E-04 | 2.30E-03 | 6.80E-03 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| June 1, 1990<br>*August 18, 2000* | Pentachlorodibenzofuran, 1,2,3,7,8- | 57117-41-6 | 2.56E-06 | 6.71E-06 | 2.00E-05 |
| June 1, 1990<br>*August 18, 2000* | Pentachlorodibenzofuran, 2,3,4,7,8- | 57117-31-4 | 2.56E-07 | 6.71E-07 | 2.00E-06 |
| June 1, 1990<br>*August 18, 2000* | Pentachlorodibenzofuran, Total | 30402-15-4 | 2.56E-07 | 6.71E-07 | 2.00E-06 |
| June 1, 1990<br>*August 18, 2000* | Pentachlorodibenzo-p dioxin 1,2,3,7,8- | 40321-76-4 | 2.56E-07 | 6.71E-07 | 2.00E-06 |
| June 1, 1990<br>*August 18, 2000* | Pentachlorodibenzo-p-dioxin, total | 36088-22-9 | 2.56E-07 | 6.71E-07 | 2.00E-06 |
| June 1, 1990<br>*August 18, 2000* | Tetrachlorodibenzofuran, 2,3,7,8- | 51207-31-9 | 1.28E-06 | 3.35E-06 | 1.00E-05 |
| June 1, 1990<br>*August 18, 2000* | Tetrachlorodibenzofuran, Total | 55722-27-5 | 1.28E-06 | 3.35E-06 | 1.00E-05 |
| June 1, 1990<br>*August 18, 2000* | Tetrachlorodibenzo-p-dioxin 2,3,7,8- | 1746-01-6 | 1.28E-07 | 3.35E-07 | 1.00E-06 |
| June 1, 1990<br>*August 18, 2000* | Tetrachlorodibenzo-p-dioxin, total | 41903-57-5 | 1.28E-07 | 3.35E-07 | 1.00E-06 |
| *August 18, 2000*<br>**August 13, 1999** | Chlorine | 7782-50-5 | 6.61<br>**0.11 lbs/hr** | 17.3<br>**0.21 lbs/hr** | 51.7<br>**0.56 lbs/hr** |
| *June 15, 2001* | Chlorine dioxide | 10049-04-4 | 19.8 | 52 | 155 |
| *June 15, 2001* | Chlorobenzene | 108-99-7 | 11,800 | 31,000 | 92,300 |
| January 8, 1999 | Chloro-o-phenylenediamine, 4- | 95-83-0 | 7.19 | 18.85 | 56.17 |
| January 8, 1999 | Chloro-o-toluidine, p- | 95-69-2 | 0.43 | 1.13 | 3.36 |
| December 7, 1990<br>*August 18, 2000*<br>**August 13, 1999** | Chloroform | 67-66-3 | 6.24<br><br>**0.09 lbs/hr** | 16.36<br><br>**0.17 lbs/hr** | 48.75<br><br>**0.46 lbs/hr** |
| September 8, 1998<br><br>December 7, 1990 | Chlorophenols<br>Pentachlorophenol<br>Trichlorophenol, 2,4,6 | 96000<br>87-86-5<br>88-06-2 | <br>1.62<br>0.46 | <br>4.25<br>1.20 | <br>12.7<br>3.59 |
| **August 13, 1999** | Chloropicrin | 76-06-2 | **0.015lbs/hr** | **0.029 lbs/hr** | **0.078 lbs/hr** |
| June 1, 1990<br>*June 15, 2001* | Chromium, hexavalent | 18540-29-9 | 0.0002 | 0.0006 | 0.0018 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| *June 15, 2001* | Chromic trioxide (as chromic acid mist) | | 0.07 | 0.17 | 0.52 |
| **August 13, 1999** | Copper and copper compounds* | | **0.05 lbs/hr** | **0.10 lbs/hr** | **0.27 lbs/hr** |
| January 8, 1999 | Cresidine, p- | 120-71-8 | 0.77 | 2.02 | 6.01 |
| *June 15, 2001* | Cresol mixtures<br>Cresol, m-<br>Cresol, o-<br>Cresol, p- | 1319-77-3<br>08-39-4<br>95-48-7<br>106-44-5 | 19,800 | 52,000 | 155,000 |
| January 8, 1999 | Cupferron | 135-20-6 | 0.52 | 1.38 | 4.10 |
| January 8, 1999 | Diaminoanisole, 2,4- (sulfate) | 615-05-4 | 5.01 | 13.14 | 39.15 |
| January 8, 1999 | Diaminotoluene, 2,4- | 95-80-7 | 0.03 | 0.08 | 0.23 |
| September 8, 1998 | Dibromo-3-chloropropane, 1,2- (DBCP) | 96-12-8 | 0.02 | 0.04 | 0.13 |
| September 8, 1998<br>*June 15, 2001* | Dichlorobenzene, 1,4- (or p-dichlorobenzene) | 106-46-7 | 0.75 | 1.97 | 5.87 |
| December 7, 1990 | Dichlorobenzidine, 3,3- | 91-94-1 | 0.097 | 0.26 | 0.76 |
| January 8, 1999 | Dichloroethane, 1,1- | 75-34-3 | 21 | 54 | 162 |
| *June 15, 2001* | Dichloroethylene 1,1- | 73-35-4 | 2,310 | 6,070 | 18,100 |
| January 8, 1999 | Dimethylaminoazobenzene, p- | 60-11-7 | 0.03 | 0.07 | 0.20 |
| *June 15, 2001* | Dimethylformamide N,N- | 68-12-2 | 2,650 | 6,940 | 20,700 |
| December 7, 1990 | Dinitrotoluene, 2,4- | 121-14-2 | 0.37 | 0.97 | 2.90 |
| December 7, 1990<br>*August 20, 2000*<br>**August 13, 1999** | Dioxane, 1,4- | 123-91-1 | 4.29<br><br>**1.5 lbs/hr** | 11.26<br><br>**3.0 lbs/hr** | 33.56<br><br>**8.0 lbs/hr** |
| December 7, 1990 | Diphenylhydrazine (or hydrazobenzene) | 12-2-66-7 | 0.15 | 0.39 | 1.17 |
| December 7, 1990<br>*June 15, 2001*<br>**August 13, 1999** | Epichlorohydrin | 106-89-8 | 1.44<br><br>**0.65 lbs/hr** | 3.77<br><br>**1.30 lbs/hr** | 11.23<br><br>**3.48 lbs/hr** |
| *June 15, 2001* | Epoxybutane (1,2-) | 106-88-7 | 661 | 1,730 | 5,170 |
| *August 18, 2000* | Ethyl benzene | 100-41-4 | 66,100 | 173,000 | 517,000 |
| *August 18, 2000* | Ethyl chloride | 75-00-3 | 992,000 | 2,600,000 | 7,750,000 |
| June 1, 1990 | Ethylene dibromide | 106-93-4 | 0.47 | 1.22 | 3.64 |
| June 1, 1990<br>*June 15, 2001* | Ethylene dichloride (or 1,2-dichloroethane) | 107-06-2 | 1.50 | 3.94 | 11.74 |

## Table – 1A

# Screening Emission Levels

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| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| *August 18, 2000* | Ethylene glycol | 107-21-1 | 13,200 | 37,400 | 103,000 |
| *August 18, 2000*<br>**February 10, 1999** | Ethylene glycol ethyl ether | 110-80-5 | 2,310<br>**0.21 lbs/hr** | 6,070<br>**0.42 lbs/hr** | 18,100<br>**1.13 lbs/hr** |
| **August 13, 1999** | Ethylene glycol monobutyl ether | 111-76-2 | **7.00 lbs/hr** | **14.00 lbs/hr** | **37.48 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Ethylene glycol monoethyl ether acetate | 111-15-9 | 9,920<br>**0.08 lbs/hr** | 26,000<br>**0.16 lbs/hr** | 77,500<br>**0.43 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Ethylene glycol monomethyl ether | 109-86-4 | 1,980<br>**0.05lbs/hr** | 5,200<br>**0.11 lbs/hr** | 15,500<br>**0.28 lbs/hr** |
| *August 18, 2000* | Ethylene glycol monomethyl ether acetate | 110-49-6 | 2,980 | 7,800 | 23,300 |
| June 1, 1990<br>*June 15, 2001* | Ethylene oxide | 75-21-8 | 0.38 | 0.99 | 2.94 |
| January 8, 1999 | Ethylene thiourea | 96-45-7 | 2.54 | 6.67 | 19.88 |
| December 7, 1990<br>*August 18, 2000*<br>**August 13, 1999** | Formaldehyde | 50-00-0 | 5.51<br><br>**0.05 lbs/hr** | 14.45<br><br>**0.09 lbs/hr** | 43.07<br><br>**0.25 lbs/hr** |
| *June 15, 2001* | Glutaraldehyde | 111-30-8 | 2.65 | 6.94 | 20.7 |
| December 7, 1990 | Hexachlorobenzene | 118-74-1 | 0.007 | 0.02 | 0.05 |
| December 7, 1990<br><br>September 8, 1998 | Hexachlorocyclohexane:<br>technical grade<br>gamma- (lindane) | <br>608-73-1<br>58-89-9 | <br>0.008<br>0.03 | <br>0.02<br>0.07 | <br>0.06<br>0.21 |
| *August 18, 2000* | Hexane (n-) | 110-54-3 | 231,000 | 607,000 | 1,810,000 |
| September 8, 1998<br>*June 15, 2001* | Hydrazine | 302-01-2 | 0.007 | 0.02 | 0.05 |
| *August 18, 2000*<br>**August 13, 1999** | Hydrogen chloride (hydrochloric acid) | 7647-01-0 | 298<br>**1.05 lbs/hr** | 780<br>**2.10 lbs/hr** | 2,330<br>**5.62 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Hydrogen cyanide (hydrocyanic acid) | 74-90-8 | 298<br>**0.17 lbs/hr** | 780<br>**0.34 lbs/hr** | 2,330<br>**0.91lbs/hr** |
| **August 13, 1999** | Hydrogen fluoride (hydrofluoric acid) | 7664-39-3 | **0.12 lbs/hr** | **0.24 lbs/hr** | **0.64 lbs/hr** |
| **August 13, 1999** | Hydrogen selenide | 7783-07-5 | **0.003 lbs/hr** | **0.005 lbs/hr** | **0.013 lbs/hr** |
| *August 18, 2000*<br>**February 10, 1999** | Hydrogen sulfide | 7783-06-4 | 331<br>**0.021 lbs/hr** | 867<br>**0.042 lbs/hr** | 2,850<br>**0.112 lbs/hr** |
| *August 18, 2000*<br>**August 13. 1999** | Isopropyl alcohol | 67-63-0 | 231,000<br>**1.6 lbs/hr** | 607,000<br>**3.20 lbs/hr** | 1,810,000<br>**8.57 lbs/hr** |

## Table – 1A

# Screening Emission Levels

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| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| September 8, 1998 | Lead and lead compounds* (inorganic, including elemental lead) including, but not limited to: | 7439-92-1 | 2.76 | 7.22 | 21.53 |
| September 8, 1998 | Lead compounds (inorganic) | | * | * | * |
| September 8, 1998 | Lead compounds (other than inorganic) | | * | * | * |
| September 8, 1998 | Lead acetate | 301-04-2 | * | * | * |
| September 8, 1998 | Lead chromate | 7758-97-6 | * | * | * |
| September 8, 1998 | Lead phosphate | 7446-27-7 | * | * | * |
| September 8, 1998 | Lead subacetate | 1335-32-6 | * | * | * |
| *August 18, 2000* | Manganese and manganese compounds* | | 6.61 | 17.3 | 51.7 |
| *August 18, 2000*<br>**August 13, 1999** | Mercury and mercury compounds* (inorganic) | | 1.86<br>**0.0009 lbs/hr** | 4.88<br>**0.0018 lbs/hr** | 14.5<br>**0.0048 lbs/hr** |
| | Mercuric chloride | 7439-97-6 | * | * | * |
| | Methyl mercury | 7487-94-7 | * | * | * |
| *August 18, 2000*<br>**August 13, 1999** | Methanol | 67-56-1 | 132,000<br>**14.00 lbs/hr** | 347,000<br>**27.98 lbs/hr** | 1,030,000<br>**74.97 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Methyl bromide | 74-83-9 | 165<br>**1.95 lbs/hr** | 433<br>**3.90 lbs/hr** | 1,290<br>**10.44 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Methyl chloroform (1,1,1 TCA) | 71-55-6 | 33,100<br>**34.00 lbs/hr** | 86,700<br>**67.96 lbs/hr** | 258,000<br>**182.06 lbs/hr** |
| **August 13, 1999** | Methyl ethyl ketone | 78-93-3 | **6.50 lbs/hr** | **12.99 lbs/hr** | **34.81 lbs/hr** |
| January 8, 1999 | Methylene bis(2-chloroaniline), 4,4- (MOCA) | 101-14-4 | 0.08 | 0.20 | 0.60 |
| June 1, 1990<br>*August 18, 2000*<br>**August 13, 1999** | Methylene chloride | 75-09-2 | 33.06<br><br>**7.00 lbs/hr** | 86.69<br><br>**13.99 lbs/hr** | 258.40<br><br>**37.48 lbs/hr** |
| September 8, 1998 | Methylene dianiline, 4,4'- (and its dichloride) | 101-77-9 | 0.072 | 0.189 | 0.562 |
| *June 15, 2001* | Methylene diphenyl isocyanate | 101-68-8 | 23.1 | 60.7 | 181 |
| *August 18, 2000* | Methyl t-butyl ether | 1634-04-4 | 265,000 | 694,000 | 2,070,000 |
| January 8, 1999 | Michler's ketone | 90-94-8 | 0.13 | 0.35 | 1.03 |
| *August 18, 2000* | Naphthalene | 91-20-3 | 298 | 780 | 2,330 |

## Table – 1A

# Screening Emission Levels

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|---|---|---|---|---|---|
| March 12, 1999 | Nickel and nickel | 7440-02-0 | 0.13 | 0.33 | 0.99 |
| *August 18, 2000* | compounds* including but | | | | |
| **August 13, 1999** | not limited to: | | **0.003 lbs/hr** | **0.006 lbs/hr** | **0.016 lbs/hr** |
| March 12, 1999 | Nickel acetate | 373-02-4 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| March 12, 1999 | Nickel carbonate | 3333-67-3 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| March 12, 1999 | Nickel carbonyl | 13463-39-3 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| March 12, 1999 | Nickel hydroxide | 12054-48-7 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| March 12, 1999 | Nickelocene | 1271-28-9 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| March 12, 1999 | Nickel oxide | 1313-99-1 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| December 7, 1990 | Nickel refinery dust from | | 0.13 | 0.33 | 0.99 |
| *August 18, 2000* | the pyrometallurigal process | | | | |
| **August 13, 1999** | | | **0.003 lbs/hr** | **0.006 lbs/hr** | **0.016 lbs/hr** |
| December 7, 1990 | Nickel subsulfide | 120-35-72-2 | * | * | * |
| *August 18, 2000* | | | | | |
| **August 13, 1999** | | | * | * | * |
| **August 13, 1999** | Nitric acid | 7697-37-2 | **0.04 lbs/hr** | **0.09 lbs/hr** | **0.23 lbs/hr** |
| December 7, 1990 | N-Nitroso- Compounds | | | | |
| December 7, 1990 | n-Nitroso-n-ethylurea | 759-73-9 | 0.001 | 0.003 | 0.008 |
| December 7, 1990 | n-Nitroso-n-methylurea | 684-93-5 | 0.0003 | 0.0007 | 0.0020 |
| December 7, 1990 | n-Nitrosodi-n-butylamine | 924-16-3 | 0.0001 | 0.0002 | 0.0006 |
| December 7, 1990 | n-Nitrosodiethylamine | 55-18-5 | 0.001 | 0.002 | 0.007 |
| December 7, 1990 | n-Nitrosodimethylamine | 62-75-9 | 0.002 | 0.005 | 0.014 |
| December 7, 1990 | n-Nitrosodiphenylamine | 86-30-6 | 3.18 | 8.34 | 24.85 |
| September 8, 1998 | n-Nitrosodiphenylamine, p- | 156-10-5 | 1.54 | 4.05 | 12.06 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| September 8, 1998 | n-Nitrosodi-n-propylamine,n- | 621-64-7 | 0.004 | 0.011 | 0.03 |
| September 8, 1998 | Nitrosomethylethylamine, n- | 10595-95-6 | 0.001 | 0.003 | 0.010 |
| January 8, 1999 | Nitrosomorpholine, n- | 59-89-2 | 0.017 | 0.046 | 0.136 |
| January 8, 1999 | Nitrosopiperidine, n- | 100-75-4 | 0.012 | 0.032 | 0.096 |
| December 7, 1990 | N-Nitrosopyrrolidine | 930-55-2 | 0.01 | 0.04 | 0.11 |
| January 8, 1999 | Paraffins, chlorinated (average chain length, c12; approx. 60% Cl by weight) | 108171-26-2 | 1.32 | 3.47 | 10.34 |
| September 8, 1998<br>*September 8, 1998*<br>**August 13, 1999** | Perchloroethylene (or tetrachloroethylene) | 127-18-4 | 5.60<br><br>**10.00 lbs/hr** | 14.69<br><br>**19.99 lbs/hr** | 43.80<br><br>**53.55 lbs/hr** |
| *August 18 2000*<br>**August 13, 1999** | Phenol | 108-95-2 | 6,610<br>**2.90 lbs/hr** | 17,300<br>**5.80 lbs/hr** | 51,700<br>**15.53 lbs/hr** |
| **August 13, 1999** | Phosgene | 75-44-5 | **0.002 lbs/hr** | **0.004 lbs/hr** | **0.011 lbs/hr** |
| *August 18, 2000* | Phosphoric acid | 7664-38-2 | 231 | 607 | 1,810 |
| *June 15, 2001* | Phthalic anhydride | 85-44-9 | 661 | 1,730 | 5,170 |
| December 7, 1990 | Polynuclear Aromatic Hydrocarbons (PAHs): | | | | |
| December 7, 1990 | Benz[a]anthracene | 56-55-3 | 0.024 | 0.062 | 0.185 |
| December 7, 1990 | Benzo[a]pyrene | 50-32-8 | 0.002 | 0.006 | 0.019 |
| December 7, 1990 | Benzo[b]fluoranthene | 205-99-2 | 0.024 | 0.062 | 0.185 |
| January 8, 1999 | Benzo[j]fluoranthene | 205-82-3 | 0.024 | 0.062 | 0.185 |
| December 7, 1990 | Benzo[k]fluoranthene | 207-08-9 | 0.024 | 0.062 | 0.185 |
| December 7, 1990 | Chrysene | 218-01-9 | 0.24 | 0.62 | 1.85 |
| January 8, 1999 | Dibenz[a,h]acridine | 226-36-8 | 0.24 | 0.06 | 0.19 |
| January 8, 1999 | Dibenz[a,j]acridine | 224-42-0 | 0.24 | 0.06 | 0.19 |
| December 7, 1990 | Dibenzo[a,h]anthracene | 53-70-3 | 0.007 | 0.018 | 0.052 |
| January 8, 1999 | Dibenzo[a,e]pyrene | 192-65-4 | 0.002 | 0.006 | 0.019 |
| January 8, 1999 | Dibenzo[a,h]pyrene | 189-64-0 | 0.0002 | 0.0006 | 0.0018 |
| January 8, 1999 | Dibenzo[a,i]pyrene | 189-55-9 | 0.0002 | 0.0006 | 0.0018 |
| January 8, 1999 | Dibenzo[a,l]pyrene | 191-30-0 | 0.0002 | 0.0006 | 0.0018 |
| January 8, 1999 | Dibenzo[c,g]carbazole, 7h- | 194-59-2 | 0.002 | 0.006 | 0.019 |
| January 8, 1999 | Dimethylbenz[a]anthracene, 7,12- | 57-97-6 | 0.0001 | 0.0003 | 0.0009 |
| January 8, 1999 | Dinitropyrene, 1,6- | 42397-64-8 | 0.0002 | 0.0006 | 0.0018 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| Original Date of Listing | Toxic Air Contaminant | CAS NO | Screening Emission Level (lbs/yr) 25 meters | Screening Emission Level (lbs/yr) 50 meters | Screening Emission Level (lbs/yr) 100 meters |
|---|---|---|---|---|---|
| January 8, 1999 | Dinitropyrene, 1,8- | 42397-65-9 | 0.002 | 0.006 | 0.019 |
| December 7, 1990 | Indenopyrene | 193-39-5 | 0.035 | 0.092 | 0.273 |
| January 8, 1999 | Methylcholanthrene, 3- | 56-49-5 | 0.0012 | 0.0033 | 0.0097 |
| January 8, 1999 | Methylchrysene, 5- | 3697-24-3 | 0.002 | 0.006 | 0.019 |
| January 8, 1999 | Nitroacenaphthene, 5- | 602-87-9 | 0.21 | 0.56 | 1.65 |
| January 8, 1999 | Nitrochrysene, 6- | 7496-02-8 | 0.0002 | 0.0006 | 0.0018 |
| January 8, 1999 | Nitrofluorene, 2- | 607-57-8 | 0.24 | 0.62 | 1.85 |
| January 8, 1999 | Nitropyrene, 1- | 5522-43-0 | 0.024 | 0.062 | 0.185 |
| January 8, 1999 | Nitropyrene, 4- | 57835-92-4 | 0.024 | 0.062 | 0.185 |
| September 8, 1998 | Polycyclic aromatic hydrocarbons (PAHs), total with individual compounds | | 0.002 | 0.006 | 0.019 |
| September 8, 1998 | Polycyclic aromatic hydrocarbons (PAHs), total w/o individual compounds | | 0.002 | 0.006 | 0.019 |
| December 7, 1990 | Polychlorinated biphenyls (PCBs) | 1336-36-3 | 0.002 | 0.006 | 0.019 |
| January 8, 1999 | Potassium bromate | 7758-01-2 | 0.24 | 0.62 | 1.85 |
| January 8, 1999 | Propane sultone, 1,3- | 1120-71-4 | 0.05 | 0.13 | 0.38 |
| *August 18, 2000* | Propylene | 115-07-1 | 99,200 | 260,000 | 775,000 |
| *August 18, 2000* | Propylene glycol monomethyl ether | 107-98-2 | 231,000 | 607,000 | 1,810,000 |
| September 8, 1998<br>*February 23, 2000*<br>**August 13, 1999** | Propylene oxide (or 1,2-epoxy propane) | 75-56-9 | 8.94<br><br>**1.55 lbs/hr** | 23.43<br><br>**3.10 lbs/hr** | 69.84<br><br>**8.30 lbs/hr** |
| **August 13, 1999** | Sodium hydroxide | 1310-73-2 | **0.004 lbs/hr** | **0.008 lbs/hr** | **0.021 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Styrene | 100-42-5 | 29,800<br>**10.50 lbs/hr** | 78,000<br>**20.99 lbs/hr** | 233,000<br>**56.22 lbs/hr** |
| **August 13, 1999** | Sulfuric acid and oleum | 7664-93-9 | **0.06 lbs/hr** | **0.12 lbs/hr** | **0.32 lbs/hr** |
| January 8, 1999 | Tetrachloroethane 1,1,2,2- | 79-34-5 | 0.57 | 1.50 | 4.46 |
| January 8, 1999 | Thioacetamide | 62-55-5 | 0.02 | 0.05 | 0.15 |
| *August 18, 2000*<br>**August 13, 1999** | Toluene | 108-88-3 | 9,920<br>**18.50 lbs/hr** | 26,000<br>**36.98 lbs/hr** | 77,500<br>**99.06 lbs/hr** |
| September 8, 1998<br>*June 15, 2001*<br>*June 15, 2001* | Toluene diisocyanate:<br>toluene-2,4-diisocyanate<br>toluene-2,6-diisocyanate | <br>584-84-9<br>91-08-7 | <br>2.31<br>2.31 | <br>6.07<br>6.07 | <br>18.1<br>18.1 |
| January 8, 1999 | Trichloroethane, 1,1,2- | 79-00-5 | 2.07 | 5.42 | 16.15 |

## Table – 1A

# Screening Emission Levels

**THESE ARE NOT EMISSION LIMITS. Exceedances of these levels indicate that a screening risk assessment should be performed.**

| | | | | | |
|---|---|---|---|---|---|
| December 7, 1990<br>*August 18, 2000* | Trichloroethylene | 79-01-6 | 16.53 | 43.35 | 129.20 |
| **August 13, 1999** | Triethylamine | 121-44-8 | **1.40 lbs/hr** | **2.80 lbs/hr** | **7.50 lbs/hr** |
| September 8, 1998 | Urethane (or ethyl carbamate) | 51-79-6 | 0.11 | 0.30 | 0.89 |
| **August 13, 1999** | Vanadium pentoxide | 1314-62-1 | **0.015 lbs/hr** | **0.030 lbs/hr** | **0.080 lbs/hr** |
| December 7, 1990<br>**August 13, 1999** | Vinyl chloride | 75-01-4 | 0.42<br>**90.00 lbs/hr** | 1.11<br>**179.89 lbs/hr** | 3.31<br>**481.93 lbs/hr** |
| *August 18, 2000*<br>**August 13, 1999** | Xylenes (isomers and mixtures) | 1330-20-7 | 23,100<br>**11.00 lbs/hr** | 60,700<br>**21.99 lbs/hr** | 181,000<br>**58.90 lbs/hr** |
| | xylene, m- | 108-38-3 | 23,100<br>**11.00 lbs/hr** | 60,700<br>**21.99 lbs/hr** | 181,000<br>**58.90 lbs/hr** |
| | xylene, o- | 95-47-6 | 23,100<br>**11.00 lbs/hr** | 60,700<br>**21.99 lbs/hr** | 181,000<br>**58.90 lbs/hr** |
| | xylene, p- | 106-42-3 | 23,100<br>**11.00 lbs/hr** | 60,700<br>**21.99 lbs/hr** | 181,000<br>**58.90 lbs/hr** |

Notes:
The original dates of listing for chronic values are denoted in italics.

**The original dates of listing for acute values are denoted in bold and their screening values are in units of lbs/hour.**

*For metal compounds, use the corresponding risk values from Table 8 and apply the metal fractions in the substances.

Example 1: For Nickel Acetate, use the corresponding risk value for nickel from Table 8 and apply nickel fraction in the substance.

Nickel = (59 lb of Ni/249 lb of $Ni(OOCCH_3)_2.4HOH$) x 100 = 23.7%

Example 2: For Lead Chromate, use the corresponding risk values for Lead and Chromium from Table 8 and apply metal equivalents for each metal obtained from the following for:

Lead = (207 lb Pb/323 lb $PbCrO_4$) X 100 = 64.1%

Chromium (hexavalent) = (52 lb Cr/323 lb $PbCrO_4$) X 100 = 16.1%

## Table – 1B
## DRY CLEANING LOOK-UP TABLE (residential receptor)

**Dry Cleaning Screening Levels**
(gallons per month, includes disposal losses
adjusted for meteorological station)

*Assumptions:*

- *The table represents a 15m x 15m x 6m (height) building as a volume source.*
- *There are no building vents or fans.*
- *The building contains a 55 lb. factory original, dry cleaning machine with primary and secondary controls.*
- *Usage includes perc lost through sludge and filter disposal.*
- *Operating hours are less than 24 hours per day.*

For any change in above conditions, e.g., bigger building, larger machine, presence of a building vent or fan, greater perc loss through sludge and filter disposal, the applicant is entitled to proceed to Tier 4 (refined risk assessment).

| Meteorological Station | MET factor | (gallons per month) | | | | |
|---|---|---|---|---|---|---|
| | | 25m | 50m | 75m | 100m | 200m |
| Pomona, Santa Ana Canyon, West Los Angeles | 1.00 | 3.9 | 11.1 | 22.1 | 36.9 | 78.5 |
| Anaheim, La Habra Malibu, Redlands, Riverside | 0.90 | 4.3 | 12.3 | 24.6 | 41.0 | 87.2 |
| Azusa, Costa Mesa, Fontana, Indio, La Canada, Norco, Pasadena, Reseda | 0.80 | 4.9 | 13.9 | 27.6 | 46.2 | 98.1 |
| Canoga Park, Compton, El Toro, King Harbor, Lennox, Los Alamitos, Lynwood, Pico Rivera, Walnut, Whittier, Upland | 0.70 | 5.6 | 15.9 | 31.6 | 52.8 | 112 |
| Banning, Burbank, Downtown Los Angeles, Long Beach, Newhall, Palm Springs, Vernon | 0.60 | 6.5 | 18.5 | 36.8 | 61.5 | 130 |

## DRY CLEANING LOOK-UP TABLE (occupational receptor)

### Dry Cleaning Screening Levels

(gallons per month, includes disposal losses
adjusted for meteorological station)

*Assumptions:*

- *The table represents a 15m x 15m x 6m (height) building as a volume source.*
- *There are no building vents or fans.*
- *The building contains a 55 lb. factory original, dry cleaning machine with primary and secondary controls.*
- *Usage includes perc lost through sludge and filter disposal.*
- *Operating hours are less than 24 hours per day.*

For any change in above conditions, e.g., bigger building, larger machine, presence of a building vent or fan, greater perc loss through sludge and filter disposal, the applicant is entitled to proceed to Tier 4 (refined risk assessment).

| Meteorological Station | MET factor | (gallons per month) | | | | |
|---|---|---|---|---|---|---|
| | | 25m | 50m | 75m | 100m | 200m |
| Pomona, Santa Ana Canyon, West Los Angeles | 1.00 | 5.9 | 16.8 | 33.5 | 55.9 | 118 |
| Anaheim, La Habra Malibu, Redlands, Riverside | 0.90 | 6.6 | 18.7 | 37.2 | 62.2 | 132 |
| Azusa, Costa Mesa, Fontana, Indio, La Canada, Norco, Pasadena, Reseda | 0.80 | 7.4 | 21.0 | 41.9 | 69.9 | 148 |
| Canoga Park, Compton, El Toro, King Harbor, Lennox, Los Alamitos, Lynwood, Pico Rivera, Walnut, Whittier, Upland | 0.70 | 8.5 | 24.0 | 47.8 | 79.9 | 169 |
| Banning, Burbank, Downtown Los Angeles, Long Beach, Newhall, Palm Springs, Vernon | 0.60 | 9.9 | 28.0 | 55.8 | 93.2 | 198 |

## Table – 2A

# Point Source
# Operating 12 hours/Day or Less

Carcinogenic and Chronic X/Q Values ([μg/m$^3$]/[tons/yr.])

| Stack Height | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| ≥ 14 to 24 | 51.18 | 16.88 | 7.89 | 4.51 | 1.14 | 0.50 | 0.18 | 0.05 |
| > 24 to 49 | 19.14 | 12.74 | 6.94 | 4.19 | 1.12 | 0.50 | 0.18 | 0.05 |
| > 49 | 5.13 | 5.13 | 4.31 | 3.08 | 0.97 | 0.45 | 0.16 | 0.04 |

## Table – 2B

# Meteorological Correction Factors (MET)

| STATION | MET | STATION | MET |
|---|---|---|---|
| Anaheim | 0.84 | Lynwood | 0.58 |
| Azusa | 0.77 | Malibu | 0.84 |
| Banning | 0.52 | Newhall | 0.50 |
| Burbank | 0.57 | Norco | 0.73 |
| Canoga Park | 0.65 | Palm Springs | 0.55 |
| Compton | 0.63 | Pasadena | 0.74 |
| Costa Mesa | 0.69 | Pico Rivera | 0.70 |
| Downtown L.A. | 0.51 | Pomona | 0.86 |
| El Toro | 0.65 | Redlands | 0.86 |
| Fontana | 0.77 | Reseda | 0.68 |
| Indio | 0.69 | Riverside | 0.82 |
| King Harbor | 0.60 | Santa Ana Canyon | 0.89 |
| La Canada | 0.73 | Upland | 0.60 |
| La Habra | 0.78 | Vernon | 0.54 |
| Lancaster | 0.47 | Walnut | 0.60 |
| Lennox | 0.67 | West L.A. | 1.00 |
| Long Beach | 0.59 | Whittier | 0.63 |
| Los Alamitos | 0.60 | | |

## Table – 3A

# Point Source
# Operating More Than 12 hours/day

Carcinogenic and Chronic X/Q Values ([µg/m$^3$]/[tons/yr.])

| Stack Height | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| (ft) | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| ≥ 14 to 24 | 49.68 | 23.07 | 12.50 | 7.74 | 2.24 | 1.06 | 0.42 | 0.12 |
| > 24 to 49 | 10.70 | 10.70 | 7.46 | 5.32 | 1.92 | 0.97 | 0.40 | 0.12 |
| > 49 | 2.38 | 2.38 | 2.38 | 2.12 | 1.27 | 0.75 | 0.33 | 0.10 |

## Table – 3B

# Meteorological Correction Factors (MET)

| STATION | MET | STATION | MET |
|---|---|---|---|
| Anaheim | 0.69 | Lynwood | 0.68 |
| Azusa | 0.64 | Malibu | 0.84 |
| Banning | 0.63 | Newhall | 0.92 |
| Burbank | 0.64 | Norco | 0.60 |
| Canoga Park | 0.71 | Palm Springs | 0.88 |
| Compton | 0.60 | Pasadena | 0.88 |
| Costa Mesa | 0.69 | Pico Rivera | 0.68 |
| Downtown L.A. | 0.60 | Pomona | 1.28 |
| El Toro | 0.65 | Redlands | 1.74 |
| Fontana | 1.19 | Reseda | 0.64 |
| Indio | 0.60 | Riverside | 0.81 |
| King Harbor | 0.53 | Santa Ana Canyon | 0.80 |
| La Canada | 1.33 | Upland | 0.71 |
| La Habra | 0.78 | Vernon | 0.92 |
| Lancaster | 0.76 | Walnut | 0.71 |
| Lennox | 0.68 | West L.A. | 1.00 |
| Long Beach | 1.00 | Whittier | 0.55 |
| Los Alamitos | 0.69 | | |

## Table – 4A

# Volume Source
# Operating 12 hours/day or Less

Carcinogenic and Chronic X/Q Values ([µg/m$^3$]/[tons/yr.])

| Source Dimensions | | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Area (ft$^2$) | Height (ft) | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| < 3,000 | ≤ 20 | 41.45 | 13.68 | 6.70 | 3.95 | 1.06 | 0.48 | 0.17 | 0.04 |
| 3,000 to 10,000 | ≤ 20 | 36.93 | 12.83 | 6.41 | 3.82 | 1.04 | 0.47 | 0.17 | 0.04 |
| 3,000 to 10,000 | > 20 | 26.52 | 10.54 | 5.58 | 3.44 | 0.98 | 0.46 | 0.17 | 0.04 |
| >10,000 to 30,000 | > 20 | 21.59 | 9.51 | 5.20 | 3.26 | 0.96 | 0.46 | 0.17 | 0.04 |
| > 30,000 | > 20 | - | 8.19 | 4.65 | 2.98 | 0.91 | 0.43 | 0.16 | 0.04 |

## Table – 4B

# Meteorological Correction Factors (MET)

| STATION | MET | STATION | MET |
|---|---|---|---|
| Anaheim | 0.86 | Lynwood | 0.63 |
| Azusa | 0.80 | Malibu | 0.88 |
| Banning | 0.54 | Newhall | 0.53 |
| Burbank | 0.60 | Norco | 0.75 |
| Canoga Park | 0.68 | Palm Springs | 0.60 |
| Compton | 0.63 | Pasadena | 0.75 |
| Costa Mesa | 0.71 | Pico Rivera | 0.70 |
| Downtown L.A. | 0.51 | Pomona | 0.91 |
| El Toro | 0.68 | Redlands | 0.90 |
| Fontana | 0.80 | Reseda | 0.71 |
| Indio | 0.72 | Riverside | 0.82 |
| King Harbor | 0.63 | Santa Ana Canyon | 0.92 |
| La Canada | 0.76 | Upland | 0.62 |
| La Habra | 0.81 | Vernon | 0.55 |
| Lancaster | 0.49 | Walnut | 0.63 |
| Lennox | 0.66 | West L.A. | 1.00 |
| Long Beach | 0.58 | Whittier | 0.66 |
| Los Alamitos | 0.64 | | |

## Table – 5A

# Volume Source
# Operating More Than 12 hours/day

Carcinogenic and Chronic X/Q Values ([μg/$m^3$]/[tons/yr.])

| Source Dimensions | | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Area ($ft^2$) | Height(ft) | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| < 3,000 | ≤ 20 | 60.49 | 22.40 | 11.68 | 7.18 | 2.12 | 1.02 | 0.41 | 0.12 |
| 3,000 to 10,000 | ≤ 20 | 55.80 | 21.35 | 11.30 | 7.01 | 2.09 | 1.01 | 0.40 | 0.12 |
| 3,000 to 10,000 | > 20 | 35.18 | 15.50 | 8.87 | 5.78 | 1.89 | 0.94 | 0.39 | 0.12 |
| >10,000 to 30,000 | > 20 | 29.58 | 14.43 | 8.41 | 5.55 | 1.85 | 0.93 | 0.39 | 0.12 |
| > 30,000 | > 20 | -- | 13.05 | 7.81 | 5.22 | 1.79 | 0.91 | 0.38 | 0.12 |

## Table – 5B

# Meteorological Correction Factors (MET)

| STATION | MET | STATION | MET |
|---|---|---|---|
| Anaheim | 0.56 | Lynwood | 0.69 |
| Azusa | 0.64 | Malibu | 0.86 |
| Banning | 0.65 | Newhall | 0.93 |
| Burbank | 0.66 | Norco | 0.58 |
| Canoga Park | 0.73 | Palm Springs | 0.89 |
| Compton | 0.55 | Pasadena | 0.91 |
| Costa Mesa | 0.63 | Pico Rivera | 0.66 |
| Downtown L.A. | 0.63 | Pomona | 1.27 |
| El Toro | 0.66 | Redlands | 1.76 |
| Fontana | 1.22 | Reseda | 0.59 |
| Indio | 0.56 | Riverside | 0.78 |
| King Harbor | 0.46 | Santa Ana Canyon | 0.81 |
| La Canada | 1.34 | Upland | 0.76 |
| La Habra | 0.79 | Vernon | 0.91 |
| Lancaster | 0.78 | Walnut | 0.74 |
| Lennox | 0.66 | West L.A. | 1.00 |
| Long Beach | 0.99 | Whittier | 0.53 |
| Los Alamitos | 0.73 | | |

## Table – 6

# Dispersion Factors For Acute Hazard Index (X/Qhr)

Point Sources
All Daily Operating Conditions
X/Qhr Values ([μg/m$^3$]/[lbs/hr])

| Stack Height (ft) | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| ≥ 14 to 24 | 2000.0 | 1000.6 | 577.9 | 373.5 | 119.2 | 59.8 | 25.4 | 8.4 |
| > 24 to 49 | 548.1 | 548.1 | 406.0 | 295.2 | 109.6 | 57.1 | 24.8 | 8.3 |
| > 49 | 110.1 | 110.1 | 103.8 | 92.4 | 67.3 | 42.9 | 20.6 | 7.2 |

## Table – 7

# Dispersion Factors For Acute Hazard Index (X/Qhr)

Volume Sources
All Daily Operating Conditions
X/Qhr Values ([μg/m$^3$]/[lbs/hr])

| Source Dimensions | | Downwind Distance (meters) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Area (ft$^2$) | Height(ft) | 25 | 50 | 75 | 100 | 200 | 300 | 500 | 1000 |
| < 3,000 | ≤ 20 | 1532.1 | 773.2 | 463.1 | 309.0 | 106.3 | 55.2 | 24.1 | 8.2 |
| 3,000 to 10,000 | ≤ 20 | 1103.1 | 613.9 | 387.7 | 267.5 | 98.0 | 52.2 | 23.3 | 8.0 |
| 3,000 to 10,000 | > 20 | 646.2 | 416.9 | 288.5 | 211.2 | 86.4 | 48.0 | 22.2 | 7.9 |
| > 10,000 to 30,000 | > 20 | 439 | 309.4 | 226.4 | 172.2 | 76.3 | 44.0 | 21.1 | 7.7 |
| > 30,000 | > 20 | - | 213.8 | 164.9 | 130.5 | 63.5 | 38.3 | 19.3 | 7.3 |

## Table – 8A

# Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Acetaldehyde | 2.70E-06 | 1.00 | 9.00E+00 | 1.00 | | |
| Acetamide | 2.00E-05 | 1.00 | | | | |
| Acrolein | | | 6.00E-02 | 1.00 | 1.90E-01 | 1 |
| Acrylamide (or propenamide) | 1.30E-03 | 1.00 | | | | |
| Acrylic acid | | | | | 6.00E+03 | 1 |
| Acrylonitrile (or vinyl cyanide) | 2.90E-04 | 1.00 | | | | |
| Allyl chloride | 6.00E-06 | 1.00 | | | | |
| Aminoanthraquinone, 2- | 9.40E-06 | 12.70 | | | | |
| Ammonia | | | 2.00E+02 | 1.00 | 3.20E+03 | 1 |
| Aniline | 1.60E-06 | 1.00 | | | | |
| Arsenic | 3.30E-03 | 2.70 | 3.00E-02 | 5.7 | 1.90E-01 | 4 |
| Arsenic compounds (inorganic) | 3.30E-03 | 2.70 | 3.00E-02 | 5.7 | 1.90E-01 | 4 |
| Arsine | | | | | 1.60E+02 | 1 |
| Asbestos | 6.30E-02 | 1.00 | | | | |
| Benzene (including benzene from gasoline) | 2.90E-05 | 1.00 | 6.00E+01 | 1.00 | 1.30E+03 | 6 |
| Benzidine (and it salts) | 1.40E-01 | 1.00 | | | | |
| Benzyl chloride | 4.90E-05 | 1.00 | | | 2.40E+02 | 1 |
| Beryllium (and beryllium compounds) | 2.40E-03 | 6.90 | | | | |
| Bis(2-chloroethyl)ether (DCEE) | 7.10E-04 | 1.00 | | | | |
| Bis(chloromethyl)ether | 1.30E-02 | 1.00 | | | | |
| Bis(2-ethylhexyl)phthalate (DEHP) | 2.40E-06 | 1.00 | | | | |
| Butadiene, 1,3- | 1.70E-04 | 1.00 | 2.00E+01 | 1.00 | | |
| Cadmium and cadmium compounds | 4.20E-03 | 1.00 | 2.00E-02 | 16.00 | | |
| Carbon disulfide | | | | | 6.20E+03 | 6 |
| Carbon tetrachloride | 4.20E-05 | 1.00 | 4.00E+01 | 1.00 | 1.90E+03 | 7 |
| Chlorinated dioxins & dibenzofurans | 3.80E+00 | 6.80 | 4.00E-05 | 82.00 | | |
| Heptachlorodibenzofuran, 1,2,3,4,6,7,8- | 3.80E-01 | 1.00 | 4.00E-03 | 82.00 | | |
| Heptachlorodibenzofuran, 1,2,3,4,7,8,9- | 3.80E-01 | 1.00 | 4.00E-03 | 82.00 | | |
| Heptachlorodibenzofuran, total | 3.80E-01 | 1.00 | 4.00E-03 | 82.00 | | |
| Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8- | 3.80E-01 | 1.00 | 4.0E-03 | 82.00 | | |
| Heptachlorodibenzo-p-dioxin, total | 3.80E-01 | 1.00 | 4.00E-03 | 82.00 | | |

**Table – 8A**

## Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Hexachlorodibenzofuran, 1,2,3,4,7,8- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzofuran, 1,2,3,6,7,8- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzofuran, 1,2,3,7,8,9- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzofuran, 2,3,4,6,7,8- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzofuran, total | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9- | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Hexachlorodibenzo-p-dioxin, total | 3.80E+00 | 1.00 | 4.00E-04 | 82.00 | | |
| Octachlorodibenzofuran, 1,2,3,4,5,6,7,8- | 3.80E-02 | 1.00 | 4.00E-02 | 82.00 | | |
| Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8- | 3.80E-02 | 1.00 | 4.00E-02 | 82.00 | | |
| Pentachlorodibenzofuran, 1,2,3,7,8- | 1.90E+00 | 6.80 | 8.00E-04 | 82.40 | | |
| Pentachlorodibenzofuran, 2,3,4,7,8- | 1.90E+01 | 6.80 | 8.00E-05 | 82.40 | | |
| Pentachlorodibenzofuran, total | 1.90E+01 | 6.80 | 8.00E-05 | 82.40 | | |
| Pentachlorodibenzo-p-dioxin, 1,2,3,7,8- | 1.90E+01 | 6.80 | 8.00E-05 | 82.40 | | |
| Pentachlorodibenzo-p-dioxin, total | 1.90E+01 | 6.80 | 8.00E-05 | 82.40 | | |
| Tetrachlorodibenzofuran, 2,3,7,8- | 3.80E+00 | 6.80 | 4.00E-04 | 82.00 | | |
| Tetrachlorodibenzofuran, total | 3.80E+00 | 6.80 | 4.00E-04 | 82.00 | | |
| Tetracholordibenzo-p-dioxin, 2,3,7,8- | 3.80E+01 | 6.80 | 4.00E-05 | 82.00 | | |
| Tetrachlorodibenzo-p-dioxin, total | 3.80E+01 | 6.80 | 4.00E-05 | 82.00 | | |
| Chlorine | | | 2.00E-01 | 1.00 | 2.10E+02 | 1 |
| Chlorine dioxide | | | 6.00E-01 | 1.00 | | |
| Chlorobenzene | | | 1.00E+03 | 2.80 | | |
| Chloro-o-phenylenediamine, 4- | 4.60E-06 | 1.00 | | | | |
| Chloro-o-toluidine, p- | 7.70E-05 | 1.00 | | | | |
| Chloroform | 5.30E-06 | 1.00 | 3.00E+02 | 1.00 | 1.50E+02 | 7 |
| Chlorophenols | | | | | | |
| Pentachlorophenol | 5.10E-06 | 4.00 | | | | |
| Trichlorophenol, 2,4,6- | 2.00E-05 | 3.60 | | | | |
| Chloropicrin | | | | | 2.90E+01 | 1 |
| Chromic trioxide (as chromic mist) | | | 2.00E-03 | 1.00 | | |

**Table – 8A**

# Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Chromium, hexavalent | 1.50E-01 | 1.01 | 2.00E-01 | 1.00 | | |
| Copper and copper compounds | | | | | 1.00E+02 | 1 |
| Cresidine, p- | 4.30E-05 | 1.00 | | | | |
| Cresol mixtures | | | 6.00E+02 | 1.00 | | |
| Cresol, m- | | | 6.00E+02 | 1.00 | | |
| Cresol, o- | | | 6.00E+02 | 1.00 | | |
| Cresol, p- | | | 6.00E+02 | 1.00 | | |
| Cupferron | 6.30E-05 | 1.00 | | | | |
| Diaminoanisole, 2,4- (sulfate) | 6.60E-06 | 1.00 | | | | |
| Diaminotoluene, 2,4- | 1.10E-03 | 1.00 | | | | |
| Dibromo-3-chloropropane, 1,2- (DBCP) | 2.00E-03 | 1.00 | | | | |
| Dichlorobenzene, p- (or 1,4-dichlorobenzene) | 1.10E-05 | 4.00 | 8.00E+02 | 1.00 | | |
| Dichlorobenzidine, 3,3- | 3.40E-04 | 1.00 | | | | |
| Dichloroethane, 1,1- | 1.60E-06 | 1.00 | | | | |
| Dichloroethylene, 1,1- | | | 7.00E+01 | 1.00 | | |
| Dimethylaminoazobenzene, p- | 1.30E-03 | 1.00 | | | | |
| Dimethylformamide (N,N-) | | | 8.00E+01 | 1.00 | | |
| Dinitrotoluene, 2,4- | 8.90E-05 | 1.00 | | | | |
| Dioxane, 1,4- | 7.70E-06 | 1.00 | 3.00E+3 | 1.00 | 3.00E+03 | 1 |
| Diphenylhydrazine (or hydrazobenzene) | 3.40E-04 | 1.00 | | | | |
| Epichlorohydrin | 2.30E-05 | 1.00 | 3.00E+00 | 1.00 | 1.30E+03 | 1 |
| Epoxybutane (1,2-) | | | 2.00E+01 | 1.00 | | |
| Ethyl benzene | | | 2.0E+03 | 1.00 | | |
| Ethyl chloride | | | 3.00E+04 | 1.00 | | |
| Ethylene dibromide | 7.10E-05 | 1.00 | | | | |
| Ethylene dichloride (or 1,2-dichloroethane) | 2.20E-05 | 1.00 | 4.00E+02 | 1.00 | | |
| Ethylene glycol | | | 4.00E+02 | 1.00 | | |
| Ethylene glycol ethyl ether (EGEE) | | | 7.00E+01 | 1.00 | 3.70E+02 | 6 |
| Ethylene glycol monobutyl ether | | | | | 1.40E+04 | 1 |
| Ethylene glycol monoethyl ether acetate | | | 3.0E+02 | 1.00 | 1.40E+02 | 6 |
| Ethylene glycol monomethyl ether | | | 6.0E+01 | 1.00 | 9.30E+01 | 6 |

**Table – 8A**

# Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Ethylene glycol monomethyl ether acetate | | | 9.0E+01 | 1.00 | | |
| Ethylene oxide | 8.80E-05 | 1.00 | 3.00E+01 | 1.00 | | |
| Ethylene thiourea | 1.30E-05 | 1.00 | | | | |
| Formaldehyde | 6.00E-06 | 1.00 | 3.0E+00 | 1.00 | 9.40E+01 | 1 |
| Glutaraldehyde | | | 8.00E-02 | 1.00 | | |
| Hexachlorobenzene | 5.10E-04 | 9.40 | | | | |
| Hexachlorocyclohexanes: | | | | | | |
| technical grade | 1.10E-03 | 4.00 | | | | |
| gamma- (lindane) | 3.10E-04 | 4.00 | | | | |
| Hexane (n-) | | | 7.00E+03 | 1.00 | | |
| Hydrazine | 4.90E-03 | 1.00 | 2.00E-01 | 1.00 | | |
| Hydrogen chloride (hydrochloric acid) | | | 9.00E+00 | 1.00 | 2.10E+03 | 1 |
| Hydrogen cyanide (hydrocyanic acid) | | | 9.00E+00 | 1.00 | 3.40E+02 | 1 |
| Hydrogen fluoride (hydrofluoric acid) | | | | | 2.40E+02 | 1 |
| Hydrogen selenide | | | | | 5.00E+00 | 1 |
| Hydrogen sulfide | | | 1.00E+01 | 1.00 | 4.20E+01 | 1 |
| Isopropyl alcohol | | | 7.00E+03 | 1.00 | 3.20E+03 | 1 |
| Lead and lead compounds (inorganic, including elemental lead), including but not limited to: | 1.20E-05 | 1.00 | | | | |
| Lead compounds, inorganic | 1.20E-05 | 1.00 | | | | |
| Lead compounds (other than inorganic) | 1.20E-05 | 1.00 | | | | |
| Lead acetate | 1.20E-05 | 1.00 | | | | |
| Lead chromate | * | * | | | | |
| Lead phosphate | 1.20E-05 | 1.00 | | | | |
| Lead subacetate | 1.20E-05 | 1.00 | | | | |
| Manganese and manganese compounds | | | 2.00E-01 | 1.00 | | |
| Mercury and mercury compounds (inorganic)<br>Mercuric chloride<br>Methyl mercury | | | 9.00E-02 | 1.60 | 1.80E+00 | 1 |
| Methanol | | | 4.00E+03 | 1.00 | 2.80E+04 | 1 |
| Methyl bromide | | | 5.00E+00 | 1.00 | 3.90E+03 | 1 |

**Table – 8A**

## Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Methyl chloroform (1,1,1 TCA) | | | 1.00E+03 | 1.00 | 6.80E+04 | 1 |
| Methyl ethyl ketone | | | | | 1.30E+04 | 1 |
| Methylene bis(2-chloroaniline), 4,4- (MOCA) | 4.30E-04 | 1.00 | | | | |
| Methylene chloride | 1.00E-06 | 1.00 | 4.00E+02 | 1.00 | 1.40E+04 | 1 |
| Methylene Dianiline, 4,4'- (and its dichloride) | 4.60E-04 | 1.00 | | | | |
| Methylene Diphenyl Isocyanate | | | 7.00E-01 | 1.00 | | |
| Methyl t-butyl ether | | | 8.00E+03 | 1.00 | | |
| Michler's ketone | 2.50E-04 | 1.00 | | | | |
| Naphthalene | | | 9.00E+00 | 1.00 | | |
| Nickel & nickel compounds including but not limited to: | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel acetate | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel carbonate | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel carbonyl | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel hydroxide | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickelocene | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel oxide | 2.60E-04 | 1.00 | 1.00E-01 | 1.00 | 6.00E+00 | 1 |
| Nickel refinery dust from the pyrometallurgical process | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nickel subsulfide | 2.60E-04 | 1.00 | 5.0E-02 | 1.00 | 6.00E+00 | 1 |
| Nitric acid | | | | | 8.60E+01 | 1 |
| N-Nitroso- Compounds: | | | | | | |
| n-Nitroso-n-ethylurea | 7.70E-03 | 4.00 | | | | |
| n-Nitroso-n-methylurea | 3.30E-02 | 4.00 | | | | |
| n-Nitrosodi-n-butylamine | 3.10E-03 | 4.00 | | | | |
| n-Nitrosodiethylamine | 1.00E-02 | 4.00 | | | | |
| n-Nitrosodimethylamine | 4.60E-03 | 4.00 | | | | |
| n-Nitrosodiphenylamine | 2.60E-06 | 4.00 | | | | |
| n-Nitrosodiphenylamine, p- | 6.30E-06 | 3.40 | | | | |
| n-Nitrosodi-n-propylamine | 2.00E-03 | 4.00 | | | | |

**Table – 8A**

# Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Nitrosomethylethylamine, n- | 6.30E-03 | 4.00 | | | | |
| Nitrosomorpholine, n- | 1.90E-03 | 1.00 | | | | |
| Nitrosopiperidine, n- | 2.70E-03 | 1.00 | | | | |
| n-Nitrosopyrrolidine | 6.00E-04 | 4.00 | | | | |
| Paraffins, chlorinated (average chain length, c12; approx. 60% Cl by weight) | 2.50E-05 | 1.00 | | | | |
| Perchloroethylene (or tetrachloroethylene) | 5.90E-06 | 1.00 | 3.50E+01 | 1.00 | 2.00E+04 | 1 |
| Phenol | | | 2.00E+02 | 1.00 | 5.80E+03 | 1 |
| Phosgene | | | | | 4.00E+00 | 1 |
| Phosphoric acid | | | 7.00E+00 | 1.00 | | |
| Phthalic anhydride | | | 2.00E+01 | 1.00 | | |
| Polycyclic Aromatic Hydrocarbons (PAHs): | 1.10E-03 | 12.70 | | | | |
| Benz[a]anthracene | 1.10E-04 | 12.70 | | | | |
| Benzo[a]pyrene | 1.10E-03 | 12.70 | | | | |
| Benzo[b]fluoranthene | 1.10E-04 | 12.70 | | | | |
| Benzo[j]fluoranthene | 1.10E-04 | 12.70 | | | | |
| Benzo[k]fluoranthene | 1.10E-04 | 12.70 | | | | |
| Chrysene | 1.10E-05 | 12.70 | | | | |
| Dibenz[a,h,]acridine | 1.10E-04 | 12.70 | | | | |
| Dibenz[a,j]acridine | 1.10E-04 | 12.70 | | | | |
| Dibenz[a,h]anthracene | 3.90E-04 | 12.70 | | | | |
| Dibenzo[a,e]pyrene | 1.10E-03 | 12.70 | | | | |
| Dibenzo[a,h]pyrene | 1.10E-02 | 12.70 | | | | |
| Dibenzo[a,i]pyrene | 1.10E-02 | 12.70 | | | | |
| Dibenzo[a,l]pyrene | 1.10E-02 | 12.70 | | | | |
| Dibenzo[c,g]carbazole, 7h- | 1.10E-03 | 12.70 | | | | |
| Dimethylbenz[a]anthracene, 7,12- | 2.40E-02 | 12.60 | | | | |
| Dinitropyrene, 1,6- | 1.10E-02 | 12.70 | | | | |
| Dinitropyrene, 1,8- | 1.10E-03 | 12.70 | | | | |
| Indenopyrene | 1.10E-04 | 12.70 | | | | |
| Methylcholanthrene, 3- | 2.10E-03 | 12.70 | | | | |

**Table – 8A**

## Unit Risk Factor (U), Reference Exposure Level (REL) and Multi Pathway Adjustment Factors (MP)

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Methylchrysene, 5- | 1.10E-03 | 12.70 | | | | |
| Nitroacenaphthene, 5- | 1.10E-05 | 14.20 | | | | |
| Nitrochrysene, 6- | 1.10E-02 | 12.70 | | | | |
| Nitrofluorene, 2- | 1.10E-05 | 12.70 | | | | |
| Nitropyrene, 1- | 1.10E-04 | 12.70 | | | | |
| Nitropyrene, 4- | 1.10E-04 | 12.70 | | | | |
| PAHs, total, w/o individual compounds | 1.10E-03 | 12.70 | | | | |
| PAHs, total, with individual compounds | 1.10E-03 | 12.70 | | | | |
| Polychlorinated biphenyls (PCBs) | 5.70E-04 | 24.00 | | | | |
| Potassium bromate | 1.40E-04 | 1.00 | | | | |
| Propane sultone, 1,3- | 6.90E-04 | 1.00 | | | | |
| Propylene | | | 3.00E+03 | 1.00 | | |
| Propylene glycol monomethyl ether | | | 7.00E+03 | 1.00 | | |
| Propylene oxide (or 1,2-epoxy propane) | 3.70E-06 | 1.00 | 3.00E+01 | 1.00 | 3.10E+03 | 1 |
| Sodium hydroxide | | | | | 8.00E+00 | 1 |
| Styrene | | | 9.00E+02 | 1.00 | 2.10E+04 | 1 |
| Sulfuric acid and oleum | | | | | 1.20E+02 | 1 |
| Tetrachloroethane 1,1,2,2- | 5.80E-05 | 1.00 | | | | |
| Thioacetamide | 1.70E-03 | 1.00 | | | | |
| Toluene | | | 3.00E+02 | 1.00 | 3.70E+04 | 1 |
| Toluene-2,4-diisocyanate | 1.10E-05 | 1.00 | 7.00E-02 | 1.00 | | |
| Toluene-2,6-diisocyanate | 1.10E-05 | 1.00 | 7.00E-02 | 1.00 | | |
| Trichloroethane, 1,1,2- | 1.60E-05 | 1.00 | | | | |
| Trichloroethylene | 2.00E-06 | 1.00 | 6.00E+02 | 1.00 | | |
| Triethylamine | | | | | 2.80E+03 | 1 |
| Urethane (or ethyl carbamate) | 2.90E-04 | 1.00 | | | | |
| Vanadium pentoxide | | | | | 3.00E+01 | 1 |
| Vinyl chloride | 7.80E-05 | 1.00 | | | 1.80E+05 | 1 |

| Toxic Air Contaminant | Unit Risk Factor | MP (MICR) | REL (Chronic) | MP (Chronic) | (Acute) | |
|---|---|---|---|---|---|---|
| | | | | | REL | Avg Hrs |
| Xylenes (isomers and mixtures) | | | 7.00E+02 | 1.00 | 2.20E+04 | 1 |
| xylene, m- | | | 7.00E+02 | 1.00 | 2.20E+04 | 1 |
| xylene, o- | | | 7.00E+02 | 1.00 | 2.20E+04 | 1 |
| xylene, p- | | | 7.00E+02 | 1.00 | 2.20E+04 | 1 |

*For Lead Chromate, use the corresponding risk values for Lead and Chromium and apply metal Equivalents for each metal obtained from the following for:

Lead = (207 lb Pb/323 lb $PbCrO_4$) X 100 = 64.1%

Chromium (hexavalent) = (52 lb Cr/323 lb $PbCrO_4$) X 100 = 16.1%

## Table – 8B

# Adjustment Factors (AF) for Compounds With REL Averaged Over 4, 6, and 7 Hours Point Source

| STATION | 4 HRS | 6 or 7 HRS | STATION | 4 HRS | 6 or 7 HRS |
|---|---|---|---|---|---|
| Anaheim | 0.93 | 0.77 | Lynwood | 0.87 | 0.79 |
| Azusa | 0.78 | 0.59 | Malibu | 0.86 | 0.69 |
| Banning | 0.85 | 0.71 | Newhall | 0.87 | 0.77 |
| Burbank | 0.94 | 0.84 | Norco | 0.81 | 0.75 |
| Canoga Park | 0.97 | 0.75 | Palm Springs | 0.75 | 0.69 |
| Compton | 0.92 | 0.67 | Pasadena | 0.93 | 0.87 |
| Costa Mesa | 0.87 | 0.88 | Pico Rivera | 0.84 | 0.85 |
| Downtown L.A. | 0.80 | 0.84 | Pomona | 0.94 | 0.78 |
| El Toro | 0.98 | 0.77 | Redlands | 0.97 | 0.88 |
| Fontana | 0.92 | 0.78 | Reseda | 0.95 | 0.72 |
| Indio | 0.70 | 0.54 | Riverside | 0.81 | 0.83 |
| King Harbor | 0.70 | 0.62 | Santa Ana Canyon | 0.84 | 0.71 |
| La Canada | 0.94 | 0.91 | Upland | 0.84 | 0.72 |
| La Habra | 0.85 | 0.82 | Vernon | 0.81 | 0.61 |
| Lancaster | 0.83 | 0.68 | Walnut | 0.78 | 0.74 |
| Lennox | 0.91 | 0.66 | West L.A. | 0.92 | 0.83 |
| Long Beach | 0.89 | 0.73 | Whittier | 0.97 | 0.66 |
| Los Alamitos | 0.84 | 0.72 | | | |

## Table – 8C

# Adjustment Factors (AF) for Compounds With REL Averaged Over 4, 6, and 7 Hours Volume Source

| STATION | 4 HRS | 6 or 7 HRS | STATION | 4 HRS | 6 or 7 HRS |
|---|---|---|---|---|---|
| Anaheim | 0.95 | 0.81 | Lynwood | 0.91 | 0.85 |
| Azusa | 0.86 | 0.77 | Malibu | 0.90 | 0.76 |
| Banning | 0.88 | 0.75 | Newhall | 0.91 | 0.82 |
| Burbank | 0.96 | 0.88 | Norco | 0.86 | 0.79 |
| Canoga Park | 0.98 | 0.83 | Palm Springs | 0.79 | 0.74 |
| Compton | 0.94 | 0.71 | Pasadena | 0.98 | 0.91 |
| Costa Mesa | 0.98 | 0.98 | Pico Rivera | 0.96 | 0.90 |
| Downtown L.A. | 0.86 | 0.88 | Pomona | 0.96 | 0.87 |
| El Toro | 0.98 | 0.89 | Redlands | 0.98 | 0.92 |
| Fontana | 0.94 | 0.84 | Reseda | 0.96 | 0.77 |
| Indio | 0.74 | 0.59 | Riverside | 0.89 | 0.88 |
| King Harbor | 0.78 | 0.70 | Santa Ana Canyon | 0.88 | 0.84 |
| La Canada | 0.98 | 0.94 | Upland | 0.87 | 0.80 |
| La Habra | 0.93 | 0.89 | Vernon | 0.85 | 0.67 |
| Lancaster | 0.96 | 0.73 | Walnut | 0.93 | 0.72 |
| Lennox | 0.94 | 0.77 | West L.A. | 0.95 | 0.88 |
| Long Beach | 0.92 | 0.87 | Whittier | 0.98 | 0.78 |
| Los Alamitos | 0.87 | 0.80 | | | |

## Table – 9

## Lifetime Exposure Adjustment (LEA) Factors

| Type of Receptor | LEA Factor |
|---|---|
| Sensitive | 1.0 |
| Residential | 1.0 |
| Off-site Worker | 0.14, if permit unit operates 24 hr/day, 365 days/yr<br>0.66, if permit unit does not operate 24 hr/day, 365 days/yr |

**When performing a screening risk assessment for offsite worker receptors, only 0.14 and 0.66 may be used for the LEA. Do not prorate for other operating schedules.**

## Table – 10A

## Target Organs Affected by Toxic Air Contaminants (Chronic Toxicity)

| Toxic Air Contaminant | CV/BL | CNS/PNS | ENDO | EYE | IMMUN | KIDN | ALIMEN (GI/LV) | REPR | RESP | SKIN |
|---|---|---|---|---|---|---|---|---|---|---|
| Acetaldehyde | | | | | | | | | x | |
| Acrolein | | | | X | | | | | x | |
| Ammonia | | | | | | | | | x | |
| Arsesnic | x | x | | | | | | x | | |
| Benzene | x | x | | | | | | x | | |
| Butadiene | | | | | | | | x | | |
| Cadmium | | | | | | x | | | x | |
| Carbon Tectrachloride | | x | | | | | x | x | | |
| Chlorine | | | | | | | | | x | |
| Chlorine dioxide | | | | | | | | | x | |
| Chlorobenzene | | | | | | x | x | x | | |
| Chloroform | | | | | | x | x | x | | |
| Chlorinated dioxins & dibenzofurans | x | | x | | | | x | x | x | |
| Chromic trioxide (as chromic acid mist) | | | | | | | | | x | |
| Chromium, hexavalent | | | | | | | | | x | |
| Cresol mixtures | | x | | | | | | | | |
| Dichlorobenzene | | x | | | | x | x | | x | |
| Dichloroethylene | | | | | | | x | | | |
| Dimethylformamide | | | | | | | x | | x | |
| Dioxane | x | | | | | x | x | | | |
| Epichlorhydrin | | | | x | | | | | x | |
| Epoxybutane (1,2-) | x | | | | | | | | x | |
| Ethyl benzene | | | x | | | x | x | x | | |
| Ethyl chloride | | | | | | | x | x | | |
| Ethylene dichloride | | | | | | | x | | | |
| Ethylene glycol | | | | | | x | | x | x | |

**Table – 10A (continued)**

## Target Organs Affected by Toxic Air Contaminants (Chronic Toxicity)

| Toxic Air Contaminant | CV/BL | CNS/PNS | ENDO | EYE | IMMUN | KIDN | ALIMEN (GI/LV) | REPR | RESP | SKIN |
|---|---|---|---|---|---|---|---|---|---|---|
| Ethylene glycol ethyl ether | x | | | | | | | x | | |
| Ethylene glycol monoethyl ether acetate | | | | | | | | x | | |
| Ethylene glycol monomethyl ether | | | | | | | | x | | |
| Ethylene glycol monomethyl ether acetate | | | | | | | | x | | |
| Ethylene oxide | | x | | | | | | | | |
| Formaldehyde | | | | x | | | | | x | |
| Glutaraldehyde | | | | | | | | | x | |
| Hexane (n-) | | x | | | | | | | | |
| Hydrazine | | | x | | | | x | | | |
| Hydrogen chloride (hydrochloric acid) | | | | | | | | | x | |
| Hydrogen cyanide | x | x | x | | | | | | | |
| Hydrogen sulfide | | | | | | | | | x | |
| Isopropanol | | | | | | x | | x | | |
| Manganese and manganese compounds | | x | | | | | | | | |
| Mercury & mercury compounds (inorganic) | | x | | | | | | | | |
| Methanol | | | | | | | | x | | |
| Methyl bromide | | x | | | | | | x | x | |
| Methyl chloroform (1,1,1 TCA) | | x | | | | | | | | |
| Methyl t-butyl ether | | | | x | | x | x | | | |
| Methylene chloride | x | x | | | | | | | | |
| Methylene diphenyl isocyanate | | | | | | | | | x | |
| Naphthalene | | | | | | | | | x | |
| Nickel & nickel compounds (except nickel oxide) | x | | | | | | | | x | |
| Nickel oxide | x | | | | | | | | x | |
| Perchloroethylene | | | | | | x | x | | x | |
| Phenol | x | x | | | | x | x | | | |
| Phosphoric acid | | | | | | | | | x | |
| Phthalic anhydride | | | | | | | | | x | |
| Propylene | | | | | | | | | x | |
| Propylene glycol monomethyl ether | | | | | | | x | | | |
| Propylene oxide | | | | | | | | | x | |
| Styrene | | x | | | | | | | | |
| Toluene | | x | | | | | | x | x | |

**Table – 10A (continued)**

## Target Organs Affected by Toxic Air Contaminants (Chronic Toxicity)

| Toxic Air Contaminant | CV/BL | CNS/PNS | ENDO | EYE | IMMUN | KIDN | ALIMEN(GI/LV) | REPR | RESP | SKIN |
|---|---|---|---|---|---|---|---|---|---|---|
| Toluene diisosyanates (2,4- &2,6-) | | | | | | | | | **x** | |
| Trichloroethylene | | **x** | | **x** | | | | | | |
| Xylenes isomers and mixtures) | | **x** | | | | | | | **x** | |
| xylene, o- | | **x** | | | | | | | **x** | |
| xylene, m- | | **x** | | | | | | | **x** | |
| xylene, p- | | **x** | | | | | | | **x** | |

CV/BL: Cardiovascular or blood system
CNS/PNS: Central or peripheral nervous system
ENDO: Endocrine system
EYE: Eye
IMMUN: Immune system
KIDN: Kidney
ALIMEN (GI/LV): Alimentary system (Gastrointestinal system and liver)
RESP: Respiratory system
REPR: Reproductive system/Development
SKIN: Skin

## Table – 10B

# Target Organs Affected by Toxic Air Contaminants (Acute Toxicity)

| Toxic Air Contaminant | CV/BL | CNS/PNS | EYE | IMMUN | KIDN | GI/LV | REPR | RESP | SKIN |
|---|---|---|---|---|---|---|---|---|---|
| Acrolein | | | x | | | | | x | |
| Acrylic acid | | | x | | | | | x | |
| Ammonia | | | x | | | | | x | |
| Arsenic and arsenic compounds (inorganic) | | | | | | | x | | |
| Arsine | x | | | | | | | | |
| Benzene | x | | | x | | | x | | |
| Benzyl chloride | | | x | | | | | x | |
| Carbon disulfide | | x | | | | | x | | |
| Carbon tetrachloride | | x | | | | x | x | | |
| Chlorine | | | x | | | | | x | |
| Chloroform | | x | | | | | x | | |
| Chloropicrin | | | x | | | | | x | |
| Copper and copper compounds | | | | | | | | x | |
| 1,4,-dioxane | | | x | | | | | x | |
| Epichlorohydrin | | | x | | | | | x | |
| Ethylene glycol ethyl ether | | | | | | | x | | |
| Ethylene glycol monobutyl ether | | | x | | | | | x | |
| Ethylene glycol monoethyl ether acetate | | x | | | | | x | | |
| Ethylene glycol monomethyl ether | | | | | | | x | | |
| Ethylene glycol monomethyl ether acetate | | x | | | | | x | | |
| Formaldehyde | | | x | x | | | | x | |
| Hydrogen chloride (hydrochloric acid) | | | x | | | | | x | |
| Hydrogen cyanide (hydrocyanic acid) | | x | | | | | | | |
| Hydrogen fluoride (hydrofluoric acid) | | | x | | | | | x | |
| Hydrogen selenide | | | x | | | | | x | |
| Hydrogen sulfide | | | | | | | | x | |
| Isopropyl alcohol | | | x | | | | | x | |
| Mercury and compounds (inorganic) | | | | | | | x | | |
| Methanol | | x | | | | | | | |
| Methyl bromide | | x | | | | | x | x | |
| Methyl chloroform (1,1,1-TCA) | | x | | | | | | | |
| Methyl ethyl ketone | | | x | | | | | x | |
| Methylene chloride | | x | | | | | | | |

**Table – 10B (continued)**

## Target Organs Affected by Toxic Air Contaminants (Acute Toxicity)

| Toxic Air Contaminant | CV/BL | CNS/PNS | EYE | IMMUN | KIDN | GI/LV | REPR | RESP | SKIN |
|---|---|---|---|---|---|---|---|---|---|
| Nickel and nickel compounds | | | | x | | | | x | |
| Nitric acid | | | | | | | | x | |
| Perchloroethylene | | x | x | | | | | x | |
| Phenol | | | x | | | | | x | |
| Phosgene | | | | | | | | x | |
| Propylene oxide | | | x | | | | x | x | |
| Sodium hydroxide | | | x | | | | | x | x |
| Styrene | | | x | | | | | x | |
| Sulfuric acid and oleum | | | | | | | | x | |
| Toluene | | x | x | | | | x | x | |
| Triethylamine | | x | x | | | | | | |
| Vanadium pentoxide | | | x | | | | | x | |
| Vinyl chloride | | x | x | | | | | x | |
| Xylenes isomers and mixtures) | | | x | | | | | x | |
| xylene, o- | | | x | | | | | x | |
| xylene, m- | | | x | | | | | x | |
| xylene, p- | | | x | | | | | x | |

CV/BL: Cardiovascular or blood system
CNS/PNS: Central or peripheral nervous system
EYE: Eye (this category added for August amendments due to OEHHA classifications)
IMMUN: Immune system
KIDN: Kidney
GI/LV: Gastrointestinal system and liver
RESP: Respiratory system
REPR: Reproductive system/Development
SKIN: Skin

## Table – 11

# Meteorological Monitoring Stations in the South Coast Air Basin

| STATION | UTM (KM) E-W | UTM (KM) N-S | LONGITUDE | LATITUDE |
|---|---|---|---|---|
| Anaheim | 415.0 | 3742.5 | 117:55:07 | 33:49:16 |
| Azusa | 414.9 | 3777.4 | 117:55:23 | 34:08:09 |
| Banning | 510.5 | 3754.4 | 116:53:11 | 33:55:58 |
| Burbank | 379.5 | 3783.0 | 118:18:27 | 34:10:58 |
| Canoga Park | 352.9 | 3786.0 | 118:35:48 | 34:12:23 |
| Compton | 385.5 | 3750.3 | 118:14:17 | 33:53:19 |
| Costa Mesa | 413.8 | 3724.2 | 117:55:47 | 33:39:21 |
| Downtown LA | 386.9 | 3770.1 | 118:13:31 | 34:04:02 |
| El Toro | 436.0 | 3720.9 | 117:41:25 | 33:37:39 |
| Fontana | 455.4 | 3773.9 | 117:29:01 | 34:06:24 |
| Indio | 572.3 | 3731.0 | 116:13:11 | 33:43:06 |
| King Harbor | 371.2 | 3744.4 | 118:23:30 | 33:30:00 |
| La Canada | 388.2 | 3786.1 | 118:12:49 | 34:12:42 |
| La Habra | 412.0 | 3754.0 | 117:57:07 | 33:55:28 |
| Lancaster | 396.0 | 3839.5 | 118:08:08 | 34:41:38 |
| Lennox (Hawthorne) | 373.0 | 3755.0 | 118:22:26 | 33:55:46 |
| Long Beach | 390.0 | 3743.0 | 118:11:19 | 33:49:24 |
| Los Alamitos | 404.5 | 3739.8 | 118:01:54 | 33:47:45 |
| Lynwood | 388.0 | 3754.0 | 118:12:42 | 33:55:20 |
| Malibu | 344.0 | 3766.9 | 118:41:23 | 34:01:59 |
| Newhall | 355.5 | 3805.5 | 118:31:02 | 34:22:59 |
| Norco | 446.8 | 3749.0 | 117:34:31 | 33:52:54 |
| Palm Springs | 542.5 | 3742.5 | 116:32:27 | 33:49:25 |
| Pasadena | 396.0 | 3778.5 | 118:07:41 | 34:08:38 |
| Pico Rivera | 402.3 | 3764.1 | 118:03:29 | 34:00:53 |
| Pomona | 430.8 | 3769.6 | 117:44:60 | 34:03:60 |
| Redlands | 486.2 | 3769.4 | 117:09:00 | 34:04:00 |
| Reseda | 359.0 | 3785.0 | 118:31:49 | 34:11:54 |
| Riverside | 464.8 | 3758.6 | 117:22:50 | 33:58:10 |
| Santa Ana Canyon | 431.0 | 3748.4 | 117:44:46 | 33:52:32 |
| Upland | 440.0 | 3773.1 | 117:39:02 | 34:05:55 |
| Vernon | 387.4 | 3762.5 | 118:13:10 | 33:59:55 |
| Walnut | 420.0 | 3761.7 | 117:51:58 | 33:59:41 |
| West LA | 372.3 | 3768.6 | 118:23:01 | 34:03:08 |
| Whittier | 405.5 | 3754.0 | 118:01:28 | 33:55:26 |

# Figure 1

## Meteorological Monitoring Stations in the South Coast Air Basin