

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 <i>September 8, 1998</i>	Acetaldehyde	75-07-0	12.25	32.11	95.70
January 8, 1999	Acetamide	60-35-5	1.65	4.33	12.92
December 7, 1990	Acrylamide (or propenamide)	79-06-1	0.03	0.07	0.20
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
January 8, 1999	Aniline	62-53-3	20.66	54.18	161.50
December 7, 1990	Arsenic and arsenic compounds*, inorganic	7440-38-2	0.004	0.01	0.03
June 1, 1990	Asbestos	1332-21-4	0.0005	0.001	0.004
June 1, 1990	Benzene (including benzene from gasoline)	71-43-2	1.14	2.99	8.91
December 7, 1990	Benzidine (and its salts)	92-87-5	0.0002	0.0006	0.0018
<i>September 8, 1998</i>	Benzyl Chloride	100-44-7	0.67	1.77	5.27
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
<i>September 8, 1998</i>	Bis(2-ethylhexyl)phthalate (DEHP)	117-81-7	14	36	108
December 7, 1990	Butadiene, 1,3-	106-99-0	0.19	0.51	1.52
June 1, 1990	Cadmium and cadmium compounds*	7440-43-9	0.008	0.02	0.06
June 1, 1990	Carbon tetrachloride	56-23-5	0.79	2.06	6.15
June 1, 1990	Chlorinated dioxins & dibenzofurans				
	Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	67562-39-4	1.28E-06 4.35E-04	3.35E-06 1.14E-03	1.00E-05 3.40E-03
	Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	55673-89-7	4.35E-04	1.14E-03	3.40E-03

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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
	Heptachlorodibenzofuran, Total	38998-75-3	4.35E-04	1.14E-03	3.40E-03
	Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	35822-46-9	4.35E-04	1.14E-03	3.40E-03
	Heptachlorodibenzo-p-dioxin, total	37871-00-4	4.35E-04	1.14E-03	3.40E-03
	Hexachlorodibenzofuran, 1,2,3,4,7,8-	70648-26-9	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzofuran, 1,2,3,6,7,8-	57117-44-9	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzofuran, 1,2,3,7,8,9-	72918-21-9	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzofuran, 2,3,4,6,7,8-	60851-34-5	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzofuran, Total	55684-94-1	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	39227-28-6	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzo-p-dioxin 1,2,3,6,7,8	57653-85-7	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzo-p-dioxin 1,2,3,7,8,9-	19408-74-3	4.35E-05	1.14E-04	3.40E-04
	Hexachlorodibenzo-p-dioxin, total	34465-46-8	4.35E-05	1.14E-04	3.40E-04
	Octachlorodibenzofuran, 1,2,3,4,5,6,7,8-	39001-02-0	9.00E-04	2.30E-03	6.80E-03
	Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-	3268-87-9	9.00E-04	2.30E-03	6.80E-03
	Pentachlorodibenzofuran, 1,2,3,7,8-	57117-41-6	2.56E-06	6.71E-06	2.00E-05
	Pentachlorodibenzofuran, 2,3,4,7,8-	57117-31-4	2.56E-07	6.71E-07	2.00E-06
	Pentachlorodibenzofuran, Total	30402-15-4	2.56E-07	6.71E-07	2.00E-06

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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
	Pentachlorodibenzo-p dioxin 1,2,3,7,8-	40321-76-4	2.56E-07	6.71E-07	2.00E-06
	Pentachlorodibenzo-p dioxin, total	36088-22-9	2.56E-07	6.71E-07	2.00E-06
	Tetrachlorodibenzofuran, 2,3,7,8-	51207-31-9	1.28E-06	3.35E-06	1.00E-05
	Tetrachlorodibenzofuran, Total	55722-27-5	1.28E-06	3.35E-06	1.00E-05
	Tetrachlorodibenzo-p dioxin,2,3,7,8-	1746-01-6	1.28E-07	3.35E-07	1.00E-06
	Tetrachlorodibenzo-p dioxin, total	41903-57-5	1.28E-07	3.35E-07	1.00E-06
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	Chloroform	67-66-3	6.24	16.36	48.75
September 8, 1998	Chlorophenols	96000			
	Pentachlorophenol	87-86-5	1.62	4.25	12.7
December 7, 1990	Trichlorophenol, 2,4,6	88-06-2	0.46	1.20	3.59
June 1, 1990	Chromium, hexavalent	18540-29-9	0.0002	0.0006	0.0018
January 8, 1999	Cresidine, p-	120-71-8	0.77	2.02	6.01
January 8, 1999	Cupferron	135-20-6	0.52	1.38	4.10
January 8, 1999	Diaminoanisoole, 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	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
January 8, 1999	Dimethylaminoazobenzene, p-	60-11-7	0.03	0.07	0.20

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December 7, 1990	Dinitrotoluene, 2,4-	121-14-2	0.37	0.97	2.90
December 7, 1990	Dioxane, 1,4-	123-91-1	4.29	11.26	33.56
December 7, 1990	Diphenylhydrazine (or hydrazobenzene)	12-2-66-7	0.15	0.39	1.17
December 7, 1990	Epichlorohydrin	106-89-8	1.44	3.77	11.23
June 1, 1990	Ethylene dibromide	106-93-4	0.47	1.22	3.64
June 1, 1990	Ethylene dichloride (or 1,2-dichloroethane)	107-06-2	1.50	3.94	11.74
February 10, 1999	Ethylene glycol ethyl ether	110-80-5	0.20 lbs/hr	0.42 lbs/hr	1.13 lbs/hr
June 1, 1990	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	Formaldehyde	50-00-0	5.51	14.45	43.07
December 7, 1990	Hexachlorobenzene	118-74-1	0.007	0.02	0.05
December 7, 1990	Hexachlorocyclohexane: technical grade	608-73-1	0.008	0.02	0.06
September 8, 1998	gamma- (lindane)	58-89-9	0.03	0.07	0.21
September 8, 1998	Hydrazine	302-01-2	0.007	0.02	0.05
February 10, 1999	Hydrogen sulfide	7783-06-4	0.021 lbs/hr	0.042 lbs/hr	0.112 lbs/hr
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	*	*	*
January 8, 1999	Methylene bis(2-chloroaniline), 4,4- (MOCA)	101-14-4	0.08	0.20	0.60
June 1, 1990	Methylene chloride	75-09-2	33.06	86.69	258.40

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September 8, 1998	Methylene dianiline, 4,4'- (and its dichloride)	101-77-9	0.072	0.189	0.562
January 8, 1999	Michler's ketone	90-94-8	0.13	0.35	1.03
March 12, 1999	Nickel and nickel compounds* including but not limited to:	7440-02-0	0.13	0.33	0.99
March 12, 1999	Nickel acetate	373-02-4	*	*	*
March 12, 1999	Nickel carbonate	3333-67-3	*	*	*
March 12, 1999	Nickel carbonyl	13463-39-3	*	*	*
March 12, 1999	Nickel hydroxide	12054-48-7	*	*	*
March 12, 1999	Nickelocene	1271-28-9	*	*	*
March 12, 1999	Nickel oxide	1313-99-1	*	*	*
December 7, 1990	Nickel refinery dust from the pyrometallurgical process		0.13	0.33	0.99
December 7, 1990	Nickel subsulfide	120-35-72-2	*	*	*
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
September 8, 1998	n-Nitrosodi-n-propylamine	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

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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 September 8, 1998	Perchloroethylene (or tetrachloroethylene)	127-18-4	5.60	14.69	43.80
December 7, 1990	Polycyclic 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	0.024	0.062	0.185
January 8, 1999	Dibenz[a,j]acridine	224-42-0	0.024	0.062	0.185
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
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

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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
September 8, 1998	Propylene oxide (or 1,2-epoxy propane)	75-56-9	8.94	23.43	69.84
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
September 8, 1998	Toluene diisocyanate: toluene-2,4-diisocyanate	584-84-9	3.01	7.88	23.5
	toluene-2,6-diisocyanate	91-08-7	3.01	7.88	23.5
January 8, 1999	Trichloroethane, 1,1,2-	79-00-5	2.07	5.42	16.15
December 7, 1990	Trichloroethylene	79-01-6	16.53	43.35	129.20
September 8, 1998	Urethane (or ethyl carbamate)	51-79-6	0.11	0.30	0.89
December 7, 1990	Vinyl chloride	75-01-4	0.42	1.11	3.31

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.

$$\text{Nickel} = (59 \text{ lb of Ni} / 249 \text{ lb of Ni}(\text{OOCCH}_3)_2 \cdot 4\text{HOH}) \times 100 = 23.7\%$$

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:

$$\text{Lead} = (207 \text{ lb Pb} / 323 \text{ lb PbCrO}_4) \times 100 = 64.1\%$$

$$\text{Chromium (hexavalent)} = (52 \text{ lb Cr} / 323 \text{ lb PbCrO}_4) \times 100 = 16.1\%$$

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 – 1C
Source Screening Levels

Note: Decision on further updates for this table is pending.

Table – 1D
Source Screening Levels

Note: Decision on further updates for this table is pending.

Table – 2A

**Point Source
Operating 12 hours/Day or Less**

Carcinogenic and Chronic X/Q Values ($[\mu\text{g}/\text{m}^3]/[\text{tons}/\text{yr.}]$)

Stack Height (ft)	Downwind Distance (meters)							
	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)

<u>STATION</u>	<u>MET</u>	<u>STATION</u>	<u>MET</u>
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 ($[\mu\text{g}/\text{m}^3]/[\text{tons}/\text{yr.}]$)

Stack Height (ft)	Downwind Distance (meters)							
	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)

<u>STATION</u>	<u>MET</u>	<u>STATION</u>	<u>MET</u>
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 ($[\mu\text{g}/\text{m}^3]/[\text{tons}/\text{yr.}]$)

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)

<u>STATION</u>	<u>MET</u>	<u>STATION</u>	<u>MET</u>
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 ($[\mu\text{g}/\text{m}^3]/[\text{tons}/\text{yr.}]$)

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)

<u>STATION</u>	<u>MET</u>	<u>STATION</u>	<u>MET</u>
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 ($[\mu\text{g}/\text{m}^3]/[\text{lbs}/\text{hr}]$)

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 - 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

Note: Table 6 is to be used for compounds with acute values *only* for applications deemed complete on or after February 10, 1999 through March 11, 1999.

Table – 7

Dispersion Factors For Acute Hazard Index (X/Qhr)

Volume Sources
 All Daily Operating Conditions
 X/Qhr Values ($[\mu\text{g}/\text{m}^3]/[\text{lbs}/\text{hr}]$)

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

Note: Table 7 is to be used for compounds with acute values *only* for applications deemed complete on or after February 10, 1999 through March 11, 1999.

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	9.0 E+00	1.00		
Acetamide	2.00E-05	1.00				
Acrylamide (or propenamide)	1.30E-03	1.00				
Acrylonitrile (or vinyl cyanide)	2.90E-04	1.00				
Allyl chloride	6.00E-06	1.00				
Aminoanthraquinone, 2-	9.40E-06	12.70				
Aniline	1.60E-06	1.00				
Arsenic and arsenic compound, inorganic	3.30E-03	2.70				
Asbestos	6.30E-02	1.00				
Benzene (including benzene from gasoline)	2.90E-05	1.00				
Benzidine (and it salts)	1.40E-01	1.00				
Benzyl chloride	4.90E-05	1.00				
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				
Cadmium and cadmium compounds	4.20E-03	1.00				
Carbon tetrachloride	4.20E-05	1.00				
Chlorinated dioxins & dibenzofurans	3.80E+00	6.80				
Heptachlorodibenzofuran, 1,2,3,4,6,7,8-	3.80E-01	1.00				
Heptachlorodibenzofuran, 1,2,3,4,7,8,9-	3.80E-01	1.00				
Heptachlorodibenzofuran, total	3.80E-01	1.00				
Heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	3.80E-01	1.00				
Heptachlorodibenzo-p-dioxin, total	3.80E-01	1.00				
Hexachlorodibenzofuran, 1,2,3,4,7,8-	3.80E+00	1.00				
Hexachlorodibenzofuran, 1,2,3,6,7,8-	3.80E+00	1.00				
Hexachlorodibenzofuran, 1,2,3,7,8,9-	3.80E+00	1.00				
Hexachlorodibenzofuran, 2,3,4,6,7,8-	3.80E+00	1.00				
Hexachlorodibenzofuran, total	3.80E+00	1.00				
Hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	3.80E+00	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
Hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	3.80E+00	1.00				
Hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	3.80E+00	1.00				
Hexachlorodibenzo-p-dioxin, total	3.80E+00	1.00				
Octachlorodibenzofuran, 1,2,3,4,5,6,7,8-	3.80E-02	1.00				
Octachlorodibenzo-p-dioxin, 1,2,3,4,5,6,7,8-	3.80E-02	1.00				
Pentachlorodibenzofuran, 1,2,3,7,8-	1.90E+00	6.80				
Pentachlorodibenzofuran, 2,3,4,7,8-	1.90E+01	6.80				
Pentachlorodibenzofuran, total	1.90E+01	6.80				
Pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	1.90E+01	6.80				
Pentachlorodibenzo-p-dioxin, total	1.90E+01	6.80				
Tetrachlorodibenzofuran, 2,3,7,8-	3.80E+00	6.80				
Tetrachlorodibenzofuran, total	3.80E+00	6.80				
Tetrachlorodibenzo-p-dioxin, 2,3,7,8-	3.80E+01	6.80				
Tetrachlorodibenzo-p-dioxin, total	3.80E+01	6.80				
Chloro-o-phenylenediamine, 4-	4.60E-06	1.00				
Chloro-o-toluidine, p-	7.70E-05	1.00				
Chloroform	5.30E-06	1.00				
Chlorophenols						
Pentachlorophenol	5.10E-06	4.00				
Trichlorophenol, 2,4,6-	2.00E-05	3.60				
Chromium, hexavalent	1.50E-01	1.01				
Cresidine, p-	4.30E-05	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				
Dichlorobenzidine, 3,3-	3.40E-04	1.00				
Dichloroethane, 1,1-	1.60E-06	1.00				
Dimethylaminoazobenzene, p-	1.30E-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
Dinitrotoluene, 2,4-	8.90E-05	1.00				
Dioxane, 1,4-	7.70E-06	1.00				
Diphenylhydrazine (or hydrazobenzene)	3.40E-04	1.00				
Epichlorohydrin	2.30E-05	1.00				
Ethylene dibromide	7.10E-05	1.00				
Ethylene dichloride (or 1,2-dichloroethane)	2.20E-05	1.00				
Ethylene glycol ethyl ether (EGEE)					3.70E+02	6
Ethylene oxide	8.80E-05	1.00				
Ethylene thiourea	1.30E-05	1.00				
Formaldehyde	6.00E-06	1.00				
Hexachlorobenzene	5.10E-04	9.40				
Hexachlorocyclohexanes:						
technical grade	1.10E-03	4.00				
gamma- (lindane)	3.10E-04	4.00				
Hydrazine	4.90E-03	1.00				
Hydrogen sulfide					4.20E+01	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				
Methylene bis(2-chloroaniline), 4,4-(MOCA)	4.30E-04	1.00				
Methylene chloride	1.00E-06	1.00				
Methylene Dianiline, 4,4'- (and its dichloride)	4.60E-04	1.00				
Michler's ketone	2.50E-04	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
Nickel & nickel compounds including but not limited to:	2.60E-04	1.00				
Nickel acetate	2.60E-04	1.00				
Nickel carbonate	2.60E-04	1.00				
Nickel carbonyl	2.60E-04	1.00				
Nickel hydroxide	2.60E-04	1.00				
Nickelocene	2.60E-04	1.00				
Nickel oxide	2.60E-04	1.00				
Nickel refinery dust from the pyrometallurgical process	2.60E-04	1.00				
Nickel subsulfide	2.60E-04	1.00				
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				
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		
Polycyclic Aromatic Hydrocarbons (PAHs):	1.70E-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				

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
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				
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 oxide (or 1,2-epoxy propane)	3.70E-06	1.00				
Tetrachloroethane 1,1,2,2-	5.80E-05	1.00				
Thioacetamide	1.70E-03	1.00				
Toluene-2,4-diisocyanate	1.10E-05	1.00				
Toluene-2,6-diisocyanate	1.10E-05	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
Trichloroethane, 1,1,2-	1.60E-05	1.00				
Trichloroethylene	2.00E-06	1.00				
Urethane (or ethyl carbamate)	2.90E-04	1.00				
Vinyl chloride	7.80E-05	1.00				

*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 = $(207 \text{ lb Pb} / 323 \text{ lb PbCrO}_4) \times 100 = 64.1\%$

Chromium (hexavalent) = $(52 \text{ lb Cr} / 323 \text{ lb PbCrO}_4) \times 100 = 16.1\%$

Table – 8B

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

<u>STATION</u>	<u>4 HRS</u>	<u>6 or 7 HRS</u>	<u>STATION</u>	<u>4 HRS</u>	<u>6 or 7 HRS</u>
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**

<u>STATION</u>	<u>4 HRS</u>	<u>6 or 7 HRS</u>	<u>STATION</u>	<u>4 HRS</u>	<u>6 or 7 HRS</u>
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 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	IMMUN	KIDN	GI/LV	REPR	RESP	SKIN
acetaldehyde							x	
perchloroethylene				x	x		x	

CV/BL: Cardiovascular or blood system
 CNS/PNS: Central or peripheral nervous system
 IMMUN: Immune system
 KIDN: Kidney
 GI/LV: Gastrointestinal system and liver
 RESP: Respiratory system
 REPR: Reproductive system
 SKIN: Skin

Table – 10B

Target Organs Affected by Toxic Air Contaminants (Acute Toxicity)

Toxic Air Contaminant	CV/BL	CNS/PNS	IMMUN	KIDN	GI/LV	REPR	RESP	SKIN
ethylene glycol ethyl ether						x		
hydrogen sulfide							x	

CV/BL: Cardiovascular or blood system
 CNS/PNS: Central or peripheral nervous system
 IMMUN: Immune system
 KIDN: Kidney
 GI/LV: Gastrointestinal system and liver
 RESP: Respiratory system
 REPR: Reproductive system
 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

