(Adopted June 1, 1990)(Amended December 7, 1990)(Amended July 10, 1998)
(Amended January 8, 1999)(Amended March 12, 1999)(Amended August 13, 1999)
(Amended March 17, 2000)(Amended August 18, 2000)(Amended June 15, 2001)
(Amended May 3, 2002)(Amended February 7, 2003)(Amended May 2, 2003)
(Amended March 4, 2005)(Amended March 7, 2008)(Amended June 5, 2009)
(Amended September 10, 2010)(Amended June 5, 2015)(Amended October 7, 2016)
(Amended September 1, 2017)(Amended August 7, 2026)

RULE 1401. NEW SOURCE REVIEW OF TOXIC AIR CONTAMINANTS

(a) Purpose

This rule specifies limits for maximum individual cancer risk (MICR), Cc~~c~~ancer Bb~~b~~urden, and noncancer acute, 8-hour chronic, and chronic hazard index (HI) from new p~~p~~Permit u~~u~~Units, r~~r~~Relocations, or m~~m~~Modifications to existing p~~p~~Permit u~~u~~Units which emit t~~t~~Toxic a~~a~~Air c~~c~~Contaminants listed in Table I. The rule establishes allowable risks for p~~p~~Permit u~~u~~Units requiring new permits pursuant to Rules 201 or 203.

(b) Applicability

(1) Applications for new, relocated, and modified p~~p~~Permit u~~u~~Units which were received by the District on or after June 1, 1990 shall be subject to Rule 1401. Applications shall be subject to the version of Rule 1401 that is in effect at the time the application is deemed complete. Permit u~~u~~Units installed without a required permit to construct shall be subject to this rule, if the application for a permit to operate such equipment was submitted after June 1, 1990.

(2) This rule shall apply to new, relocated, and modified equipment identified in Rule 219 as not requiring a written permit if the risk from the equipment will be greater than identified in subparagraph (d)(1)(A), or paragraphs (d)(2) or (d)(3) in Rule 1401.

(c) Definitions

(1) ACCEPTABLE STACK HEIGHT for a p~~p~~Permit u~~u~~Unit is defined as a stack height that does not exceed two and one half times the height of the p~~p~~Permit u~~u~~Unit or two and one half times the height of the building housing the p~~p~~Permit u~~u~~Unit, and shall not be greater than 65 meters (213 feet), unless the

applicant demonstrates to the satisfaction of the Executive Officer that a greater height is necessary.

(c) (2) BEST AVAILABLE CONTROL TECHNOLOGY FOR TOXICS (T-BACT) means the most stringent emissions limitation or control technique which:

(A) has been achieved in practice for such ~~p~~Permit ~~u~~Unit category or class of source; or

(B) is any other emissions limitation or control technique, including process and equipment changes of basic and control equipment, found by the Executive Officer to be technologically feasible for such class or category of sources, or for a specific source.

(3) CANCER BURDEN means the estimated increase in the occurrence of cancer cases in a population subject to a MICR of greater than or equal to one in one million (1.0×10^{-6}) resulting from exposure to ~~t~~Toxic ~~a~~Air ~~c~~Contaminants.

(4) CONTEMPORANEOUS RISK REDUCTION means any reduction in risk resulting from a decrease in emissions of ~~t~~Toxic ~~a~~Air ~~c~~Contaminants at the ~~f~~Facility that is permanent, real, quantifiable and enforceable through District permit conditions. Permit applications associated with the increase and decrease in risk must be submitted together and the reduction of risk must occur before the start of operation of the ~~p~~Permit ~~u~~Unit that will have an increased risk. A ~~c~~Contemporaneous R~~r~~risk R~~r~~eduction shall be calculated based on the actual average annual emissions, as determined by ~~f~~Facility records, and annual emissions declarations pursuant to Rule 301 as appropriate, or other data approved by the Executive Officer, whichever is less, which have occurred during the two-year period immediately preceding the date of application.

(5) FACILITY means any ~~p~~Permit ~~u~~Unit or grouping of ~~p~~Permit ~~u~~Units or other air contaminant-emitting activities which are located on one or more contiguous properties within the District, in actual physical contact or separated solely by a public roadway or other public right-of-way, and are owned or operated by the same person (or by persons under common control), or an outer continental shelf (OCS) source as determined in 40 CFR Section 55.2. Such above-described groupings, if noncontiguous, but connected only by land carrying a pipeline, shall not be considered one ~~f~~Facility. Notwithstanding the above, sources or installations involved in

crude oil and gas production in Southern California Coastal or OCS Waters and transport of such crude oil and gas in Southern California Coastal or OCS Waters shall be included in the same ~~f~~Facility which is under the same ownership or use entitlement as the crude oil and gas production ~~f~~Facility on-shore.

(c) (6) INDIVIDUAL SUBSTANCE 8-HOUR CHRONIC HAZARD INDEX (HI) is the ratio of the estimated 8-hour exposure to a Toxic Air Contaminant for a potential maximally exposed individual to its 8-hour reference exposure level.

(7)~~(6)~~ INDIVIDUAL SUBSTANCE ACUTE HAZARD INDEX (HI) is the ratio of the estimated maximum one-hour concentration of a ~~t~~Toxic ~~a~~Air ~~c~~Contaminant for a potential maximally exposed individual to its acute reference exposure level.

(8)~~(7)~~ INDIVIDUAL SUBSTANCE CHRONIC HAZARD INDEX (HI) is the ratio of the estimated long-term level of exposure to a ~~t~~Toxic ~~a~~Air ~~c~~Contaminant for a potential maximally exposed individual to its chronic reference exposure level. The chronic hazard index calculations shall include multipathway consideration, if applicable.

(9)~~(8)~~ MAXIMUM INDIVIDUAL CANCER RISK (MICR) is the estimated probability of a potential maximally exposed individual contracting cancer as a result of exposure to ~~t~~Toxic ~~a~~Air ~~c~~Contaminants for residential ~~r~~Receptor ~~l~~Locations calculated pursuant to the Risk Assessment Procedures referenced in subdivision (e). The MICR for worker ~~r~~Receptor ~~l~~Locations shall be calculated pursuant to the Risk Assessment Procedures referenced in subdivision (e). The MICR calculations shall include multipathway consideration, if applicable.

(10)~~(9)~~ MODIFICATION means any physical change in, change in method of operation, or addition to an existing ~~p~~Permit ~~u~~Unit that requires an application for a permit to construct and/or operate. Routine maintenance and/or repair shall not be considered a physical change. A change in the method of operation of equipment, unless previously limited by an enforceable permit condition, shall not include:

(A) an increase in the production rate, unless such increase will cause the maximum design capacity of the equipment to be exceeded; or

(B) an increase in the hours of operation; or

(C) a change in ownership of a source; or

(c) (10) (D) a change in formulation of the materials processed which will not result in a net increase of the MICR, ~~c~~Cancer ~~b~~Burden, Total Acute HI, Total 8-Hour Chronic HI, or Total Chronic HI ~~or chronic or acute HI~~ from the associated ~~p~~Permit ~~u~~Unit.

For ~~f~~Facilities that have been issued a ~~f~~Facility permit pursuant to Regulation XX or a Title V permit pursuant to Regulation XXX, ~~m~~Modification means any physical change in, change in method of operation of, or addition to an existing individual article, machine, equipment or other contrivance which would have required an application for a permit to construct and/or operate, were the unit not covered under a ~~f~~Facility permit or Title V permit.

(11)~~(10)~~ PERMIT UNIT means any article, machine, equipment, or other contrivance, or combination thereof, which may cause or control the issuance of air contaminants, and which requires a written permit pursuant to Rules 201 and/or 203. For ~~f~~Facilities that have been issued a ~~f~~Facility permit or Title V permit, a ~~p~~Permit ~~u~~Unit for the purpose of this rule means any individual article, machine, equipment or other contrivance which may cause or control the issuance of air contaminants and which would require a written permit pursuant to Rules 201 and/or 203 if it was not covered under a ~~f~~Facility permit or Title V permit. For publicly-owned sewage treatment operations, each process within multi-process ~~p~~Permit ~~u~~Units at the ~~f~~Facility shall be considered a separate ~~p~~Permit ~~u~~Unit for purposes of this rule.

(12)~~(11)~~ RECEPTOR LOCATION means

(A) for the purpose of calculating Total ~~a~~Acute HI, any location outside the boundaries of the ~~f~~Facility at which a person could experience acute exposure; and

(B) for the purpose of calculating Total 8-Hour Chronic HI, Total ~~c~~Chronic HI and MICR, any location outside the boundaries of the ~~f~~Facility at which a person could experience chronic exposure.

The Executive Officer shall consider the potential for exposure in determining whether the location will be considered a ~~r~~Receptor ~~l~~Location.

(13)~~(12)~~ RELOCATION means the removal of an existing ~~p~~Permit ~~u~~Unit from one parcel of land in the District and installation at another parcel of land where two parcels are not in actual physical contact and are not separated solely

by a public roadway or other public right-of-way. The removal of a ~~p~~Permit ~~u~~Unit from one location within a ~~f~~Facility and installation at another location within the ~~f~~Facility is a ~~r~~Relocation only if an increase in maximum individual cancer risk in excess of one in one million (1.0×10^{-6}) or a Hazard Index of 1.0 occurs at any ~~r~~Receptor ~~l~~Location.

(c) (14) TOTAL 8-HOUR CHRONIC HAZARD INDEX (HI) is the sum of the Individual Substance 8-hour HIs for all Toxic Air Contaminants affecting the same target organ system.

(15)(~~13~~) TOTAL ACUTE HAZARD INDEX (HI) is the sum of the ~~i~~Individual ~~s~~Substance ~~a~~Acute HIs for all ~~t~~Toxic ~~a~~Air ~~c~~Contaminants affecting the same target organ system.

(16)(~~14~~) TOTAL CHRONIC HAZARD INDEX (HI) is the sum of the ~~i~~Individual ~~s~~Substance ~~c~~Chronic HIs for all ~~t~~Toxic ~~a~~Air ~~c~~Contaminants affecting the same target organ system.

(17)(~~15~~) TOXIC AIR CONTAMINANT is an air pollutant which may cause or contribute to an increase in mortality or serious illness, or which may pose a present or potential hazard to human health. For the purpose of this rule, ~~t~~Toxic ~~a~~Air ~~c~~Contaminants are those listed in Table I.

(d) Requirements

The Executive Officer shall deny the permit to construct for a new, relocated or modified ~~p~~Permit ~~u~~Unit if emissions, calculated pursuant to subdivision (f), of any ~~t~~Toxic ~~a~~Air ~~c~~Contaminant listed in Table I may occur, unless the applicant has substantiated to the satisfaction of the Executive Officer all of the following:

(1) MICR and Cancer Burden

The cumulative increase in MICR which is the sum of the calculated MICR values for all ~~t~~Toxic ~~a~~Air ~~c~~Contaminants emitted from the new, relocated or modified ~~p~~Permit ~~u~~Unit will not result in any of the following:

(A) an increased MICR greater than one in one million (1.0×10^{-6}) at any ~~r~~Receptor ~~l~~Location, if the ~~p~~Permit ~~u~~Unit is constructed without T-BACT;

(B) an increased MICR greater than ten in one million (10×10^{-6}) at any ~~r~~Receptor ~~l~~Location, if the ~~p~~Permit ~~u~~Unit is constructed with T-BACT;

(C) an increased ~~c~~Cancer ~~b~~Burden greater than 0.5.

(2) Chronic Hazard Index and 8-Hour Chronic Hazard Index

(d) (2) (A) The cumulative increase in ~~t~~Total ~~c~~Chronic HI for any target organ system due to total emissions from the new, relocated or modified ~~p~~Permit ~~u~~Unit owned or operated by the applicant for which applications were deemed complete on or after the date when the risk value for the compound is finalized by the state Office of Environmental Health Hazard Assessment (OEHHA) will not exceed 1.0 at any R~~r~~eceptor ~~l~~Location.

(B) The cumulative increase in Total 8-Hour Chronic HI for any target organ system due to total emissions from the new, relocated or modified Permit Unit owned or operated by the applicant for which applications were deemed complete on or after the date when the risk value for the compound is finalized by OEHHA will not exceed 1.0 at any Receptor Location.

(3) Acute Hazard Index

The cumulative ~~increase in t~~Total ~~a~~Acute HI for any target organ system due to total emissions from the new, relocated or modified ~~p~~Permit ~~u~~Unit owned or operated by the applicant for which applications were deemed complete on or after the date when the risk value for the compound is finalized by OEHHA will not exceed 1.0 at any ~~r~~Receptor ~~l~~Location.

(4) If a permit contains operating conditions imposed pursuant to Rule 1401, which prohibit or limit the use or emission of ~~t~~Toxic ~~a~~Air ~~c~~Contaminants, those conditions shall apply only to those ~~t~~Toxic ~~a~~Air ~~c~~Contaminants listed in the version of Rule 1401 applicable at the time the permit conditions were imposed.

(5) Federal New Source Review for Toxics

Pursuant to Section 112(g) of the federal Clean Air Act (CAA), no person shall begin construction or reconstruction of a major stationary source emitting hazardous air pollutants listed in Section 112 (b) of the CAA, unless the source is constructed with Best Available Control Technology for Toxics (T-BACT) and complies with all other applicable requirements, including definitions and public noticing, referenced in 40 CFR 63.40 through 63.44. The requirements of this paragraph shall not apply to:

(A) any source that is subject to an existing National Emission Standard for Hazardous Air Pollutants (NESHAP) pursuant to sections 112(d), 112(h), or 112(j) of the federal CAA;

(d) (5) (B) any source that is exempted from regulations under a NESHAP issued pursuant to sections 112(d), 112(h), or 112(j) of the federal CAA;

(C) any source that has received all necessary air quality permits for such construction or reconstruction before June 29, 1998;

(D) electric utility steam generating units, unless and until such time as these units are added to the source category list pursuant to the requirements of section 112(c)(5) of the federal CAA;

(E) any sources that are within a source category that has been deleted from the source category list pursuant to section 112(c)(9) of the federal CAA; or

(F) research and development activities.

Compliance with this paragraph does not relieve any owner or operator of a major stationary source from complying with all other applicable District rules and regulations, including this rule, any applicable state airborne toxic control measure, or other applicable state and federal laws. Exemptions under subdivision (g) of this rule do not apply to this paragraph. This paragraph shall take effect retroactively from June 29, 1998.

(e) Risk Assessment Procedures

(1) The Executive Officer shall periodically publish procedures for determining health risks under this rule. To the extent possible, the procedures will be consistent with the most recently adopted policies and procedures of the state OEHHA.

(2) To calculate the cumulative increase in MICR pursuant to paragraph (d)(1), the increase from each ~~p~~Permit ~~u~~Unit shall be based on the emissions of ~~t~~Toxic ~~a~~Air ~~c~~Contaminants, the risk values, and risk assessment procedures applicable at the time when each complete application was deemed complete by the District.

(f) Emissions Calculations

(1) For the purpose of determining MICR and C~~c~~ancer B~~b~~urden due to a new or relocated ~~p~~Permit ~~u~~Unit pursuant to this rule, the total Toxic Air Contaminant emissions from the new or relocated ~~p~~Permit ~~u~~Unit shall be calculated on an annual basis from permit conditions which directly limit the emissions or, when no such conditions are imposed, from:

(f) (1) (A) the maximum rated capacity;

(B) the maximum possible annual hours of operation;

(C) the maximum annual emissions; and

(D) the physical characteristics of the materials processed.

(2) For the purpose of determining Total 8-Hour Chronic HI and Total cChronic HI due to a new or relocated pPermit uUnit pursuant to this rule, the total emissions from a pPermit uUnit shall be calculated on an annual average basis from permit conditions which directly limit the emissions or, when no such conditions are imposed, from:

(A) the maximum rated capacity;

(B) the annual average hours of operation;

(C) the annual average emissions; and

(D) the physical characteristics of the materials processed.

(3) For the purpose of determining MICR, cCancer Bburden, Total 8-Hour Chronic HI, and Total cChronic HI due to a modified pPermit uUnit pursuant to this rule, the increase in emissions from the modified pPermit uUnit shall be calculated based on the difference between the total permitted emissions after the mModification, calculated pursuant to the criteria established in subparagraphs (f)(1)(A), (B), (C), and (D), and:

(A) the total permitted emissions prior to the mModification as stated in the permit conditions; or

(B) if there are no existing permit conditions that limit emissions, the average annual emissions which have occurred during the two-year period immediately preceding the date of the complete permit application for mModification or other appropriate period determined by the Executive Officer to be representative of a pPermit uUnit's operation; or

(C) for mModification of any source installed prior to October 8, 1976, resulting from the addition of air pollution controls installed solely to reduce the issuance of air contaminants, emission shall be calculated from permit conditions which directly limit the emissions or, when no such conditions are imposed, from:

(i) the maximum rated capacity; and

(ii) the maximum proposed daily hours of operation; and

(iii) the physical characteristics of the materials processed.

(f) (4) For the purpose of determining Total ~~a~~Acute HI due to a new, relocated or modified ~~p~~Permit ~~u~~Unit pursuant to this rule, the total emissions from a ~~p~~Permit ~~u~~Unit shall be calculated on a maximum hourly basis from permit conditions which directly limit the emissions or, when no such conditions exist, from:

(A) the maximum rated capacity;

(B) the maximum hourly emissions; and

(C) the physical characteristics of the materials processed.

(5) De Minimi~~us~~ Values

Any P~~p~~ermit ~~u~~Unit with values at or below the screening levels as specified in the procedures for determining health risks under this rule, published pursuant to paragraph (e)(1), shall be deemed in compliance with the requirements of subdivision (d).

(g) Exemptions

(1) The requirements of subdivision (d) shall not apply to:

(A) Permit Renewal or Change of Ownership

Any ~~p~~Permit ~~u~~Unit which is in continuous operation, without ~~m~~Modification or change in operating conditions, for which a new permit to operate is required solely because of permit renewal or change of ownership.

(B) Modification with No Increase in Risk

A ~~m~~Modification of a ~~p~~Permit ~~u~~Unit that causes a reduction or no increase in the ~~c~~Cancer ~~b~~Burden, MICR, ~~or~~ Total ~~a~~Acute HI, Total 8-Hour Chronic HI, or Total ~~c~~Chronic HI at any ~~r~~Receptor ~~l~~Location.

(C) Functionally Identical Replacement

A ~~p~~Permit ~~u~~Unit replacing a functionally identical ~~p~~Permit ~~u~~Unit, provided there is no increase in maximum rating or increase in emissions of any ~~t~~Toxic ~~a~~Air ~~c~~Contaminants. For replacement of dry cleaning ~~p~~Permit ~~u~~Units only, provided there is no increase in any ~~t~~Toxic ~~a~~Air ~~c~~Contaminants.

(D) Equipment Previously Exempt Under Rule 219 - Equipment Not Requiring A Written Permit Pursuant to Regulation II

Equipment which previously did not require a written permit pursuant to Rule 219 that is no longer exempt, provided that the

equipment was installed prior to the Rule 219 amendment eliminating the exemption and a complete application for the permit is received within one (1) year after the Rule 219 amendment removing the exemption.

(g) (1) (E) Modifications to Terminate Research Projects

Modifications restoring the previous permit conditions of a ~~p~~Permit ~~u~~Unit, provided that: the applicant demonstrates that the previous permit conditions were modified solely for the purpose of installing innovative control equipment as part of a demonstration or investigation designed to advance the state of the art with regard to controlling emissions of ~~t~~Toxic ~~a~~Air ~~c~~Contaminants; the emission reductions achieved by the demonstration project are not used for permitting any equipment with emission increases under the contemporaneous emission reduction exemption as specified in paragraph (g)(2); the demonstration project is completed within two (2) years; and a complete application is submitted no later than two (2) years after the date of issuance of the permit which modified the conditions of the previous permit for the purpose of the demonstration or investigation.

(F) Emergency Internal Combustion Engines

Emergency internal combustion engines that are exempted under Rule 1304.

(G) Wood Product Stripping

Wood product stripping ~~p~~Permit ~~u~~Units, provided that the risk increases due to emissions from the ~~p~~Permit ~~u~~Unit owned or operated by the applicant for which complete applications were submitted on or after July 10, 1998 will not exceed a MICR of 100 in one million (100×10^{-6}) or a ~~t~~Total ~~a~~Acute or ~~c~~Chronic ~~h~~Hazard ~~i~~Index of five (5) at any ~~r~~Receptor ~~l~~Location. This exemption shall not apply to permit applications received after January 10, 2000, or sooner if the Executive Officer makes a determination that T-BACT is available to enable compliance with the requirements of paragraphs (d)(1), (d)(2) and (d)(3).

(H) Gasoline Transfer and Dispensing Facilities

For gasoline transfer and dispensing facilities, as defined in Rule 461 – Gasoline Transfer and Dispensing, the Executive Officer shall

not, for the purposes of paragraphs (d)(1) through (d)(4), consider the risk contribution of methyl tert-butyl ether for any gasoline transfer and dispensing permit applications deemed complete on or before December 31, 2003. If the state of California extends the phase-out requirement for methyl tert-butyl ether as an oxygenate in gasoline, the limited time exemption shall be extended to that expiration date or December 31, 2004, whichever is sooner.

(g) (2) Contemporaneous Risk Reduction

(A) Paragraph (d)(1) shall not apply if the applicant demonstrates that a ~~e~~Contemporaneous R~~r~~isk R~~r~~eduction resulting in a decrease in emissions will occur such that both of the following conditions are met:

(i) no ~~r~~Receptor ~~l~~Location will experience a total increase in MICR of greater than one in one million (1.0×10^{-6}) due to the cumulative impact of both the ~~p~~Permit ~~u~~Unit and the ~~e~~Contemporaneous R~~r~~isk R~~r~~eduction; and

(ii) the C~~e~~ontemporaneous R~~r~~isk R~~r~~eduction occurs within 100 meters of the ~~p~~Permit ~~u~~Unit.

T-BACT shall be used on ~~p~~Permit ~~u~~Units exempted under this subparagraph if the MICR from the ~~p~~Permit ~~u~~Unit exceeds one in one million (1.0×10^{-6}).

(B) The requirements of paragraphs (d)(2) and (d)(3) shall not apply if the applicant substantiates to the satisfaction of the Executive Officer that a C~~e~~ontemporaneous R~~r~~isk R~~r~~eduction will occur such that any increase in ~~i~~Individual ~~s~~Substance ~~a~~Acute HI, Individual Substance 8-Hour Chronic HI, or Individual Substance ~~e~~Chronic HI from the ~~p~~Permit ~~u~~Unit exceeding 1.0 is mitigated with an equal or greater decrease in the same ~~i~~Individual ~~s~~Substance ~~a~~Acute HI, Individual Substance 8-Hour Chronic HI, or Individual Substance ~~e~~Chronic HI, respectively, from the C~~e~~ontemporaneous R~~r~~isk R~~r~~eduction such that both of the following conditions are met:

(i) no R~~r~~eceptor ~~l~~Location will experience an increase in ~~t~~Total ~~a~~Acute HI, Total 8-Hour Chronic HI, or Total ~~e~~Chronic HI of more than 1.0 due to the cumulative impact of both the ~~p~~Permit ~~u~~Unit and the ~~e~~Contemporaneous R~~r~~isk R~~r~~eduction; and

(ii) the ~~c~~Contemporaneous ~~r~~Risk ~~r~~Reduction occurs within 100 meters of the ~~p~~Permit ~~u~~Unit.

(g) (3) Alternate Hazard Index Levels

The requirements of paragraphs (d)(2) and (d)(3) shall not apply if the applicant substantiates to the satisfaction of the Executive Officer that at all R~~r~~eceptor ~~l~~Locations and for every target organ system, the Total Acute HI, Total 8-Hour Chronic HI, and ~~t~~Total ~~c~~Chronic HI~~ and acute HI level~~ resulting from emissions from the new, modified or relocated ~~p~~Permit ~~u~~Unit owned or operated by the applicant for which applications were submitted on or after July 10, 1998 shall not exceed alternate HI ~~levels~~ which are determined by the Executive Officer in consultation with the Office of Environmental Health Hazard Assessment to be protective against adverse health effects. No alternate HI ~~level~~ shall exceed 10.

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
75-07-0	acetaldehyde	December 7, 1990	September 8, 1998	September 10, 2010
60-35-5	acetamide	January 8, 1999		
107-02-8	acrolein		June 15, 2001	August 13, 1999
79-06-1	acrylamide (or propenamide)	December 7, 1990	**	
79-10-7	acrylic acid		*	August 13, 1999
107-13-1	acrylonitrile (or vinyl cyanide)	December 7, 1990	May 3, 2002	
107-05-1	allyl chloride	January 8, 1999		
117-79-3	aminoanthraquinone, 2-	January 8, 1999		
7664-41-7	ammonia		August 18, 2000	August 13, 1999
62-53-3	aniline	January 8, 1999		
7440-38-2	**arsenic and arsenic compounds (inorganic)** including, but not limited to: arsenic compounds (inorganic)	December 7, 1990	June 15, 2001	August 13, 1999
7784-42-1	arsine		September 10, 2010	August 13, 1999
1332-21-4	asbestos	June 1, 1990		
71-43-2	benzene (including benzene from gasoline)	June 1, 1990	August 18, 2000	August 13, 1999
92-87-5	benzidine (and its salts)	December 7, 1990	**	
100-44-7	benzyl chloride	September 8, 1998	**	August 13, 1999
7440-41-7	beryllium and beryllium compounds	December 7, 1990	May 3, 2002	
111-44-4	bis(2-chloroethyl)ether (DCEE)	December 7, 1990		
117-81-7	bis(2-ethylhexyl)phthalate (DEHP)	September 8, 1998	**	

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
542-88-1	bis(chloromethyl)ether	December 7, 1990		
7789-30-2	bromine pentafluoride		*	
106-99-0	butadiene, 1,3-	December 7, 1990	June 15, 2001	September 1, 2017
7440-43-9	cadmium and cadmium compounds	June 1, 1990	June 15, 2001	
105-60-2	caprolactum		September 1, 2017	September 1, 2017
75-15-0	carbon disulfide		May 3, 2002	August 13, 1999
56-23-5	carbon tetrachloride (or tetrachloromethane)	June 1, 1990	June 15, 2001	August 13, 1999
463-58-1	carbonyl sulfide		September 1, 2017	September 1, 2017
7782-50-5	chlorine		August 18, 2000	August 13, 1999
10049-04-4	chlorine dioxide		June 15, 2001	
95-83-0	chloro-o-phenylenediamine, 4-	January 8, 1999		
95-69-2	chloro-o-toluidine, p-	January 8, 1999		
108-90-7	chlorobenzene		June 15, 2001	
	chlorofluorocarbons			
75-43-4	dichlorodifluoromethane (CFC-12)		*	
75-69-4	trichlorofluoromethane (CFC-11)		*	
76-13-1	trichlorotrifluoroethane (CFC-113)		*	
67-66-3	chloroform (trichloromethane)	December 7, 1990	August 18, 2000	August 13, 1999

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
	Chlorophenols			
95-57-8	chlorophenol, 2-		*	
88-06-2	trichlorophenol, 2,4,6-	December 7, 1990		
	tetrachlorophenols (TECPH)		*	
87-86-5	pentachlorophenol	September 8, 1998	**	
76-06-2	chloropicrin		May 3, 2002	August 13, 1999
126-99-8	chloroprene		**	
18540-29-9	**chromium (hexavalent) and chromium compounds**	June 1, 1990	June 15, 2001	
	including, but not limited to:			
10294-40-3	barium chromate	June 1, 1990	June 15, 2001	
13765-19-0	calcium chromate	June 1, 1990	June 15, 2001	
7758-97-6	lead chromate	September 8, 1998	June 15, 2001	
10588-01-9	sodium dichromate	June 1, 1990	June 15, 2001	
7789-06-2	strontium chromate	June 1, 1990	June 15, 2001	
13530-65-9	zinc chromate	June 1, 1990	June 15, 2001	
1333-82-0	chromic trioxide	June 1, 1990	June 15, 2001	
7440-50-8	copper and copper compounds		*	August 13, 1999
120-71-8	cresidine, p-	January 8, 1999		
1319-77-3	**cresols/cresylic acid (all isomers and mixture)**		June 15, 2001	

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
108-39-4	cresol, m-		June 15, 2001	
95-48-7	cresol, o-		June 15, 2001	
106-44-5	cresol, p-		June 15, 2001	
135-20-6	cupferron	January 8, 1999		
	dialkylnitrosamines			
924-16-3	nitrosodi-n-butylamine, n-	December 7, 1990		
621-64-7	nitrosodi-n-propylamine, n-	September 8, 1998		
55-18-5	nitrosodiethylamine, n-	December 7, 1990		
62-75-9	nitrosodimethylamine, n-	December 7, 1990		
10595-95-6	nitrosomethylethylamine, n-	September 8, 1998		
615-05-4	diaminoanisole, 2,4- (sulfate)	January 8, 1999		
95-80-7	diaminotoluene, 2,4-	January 8, 1999		
	dibenzo-p-dioxins (chlorinated)			
1746-01-6	tetrachlorodibenzo-p-dioxin, 2,3,7,8-	June 1, 1990	August 18, 2000	
40321-76-4	pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	June 1, 1990	August 18, 2000	
39227-28-6	hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	June 1, 1990	August 18, 2000	
57653-85-7	hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	June 1, 1990	August 18, 2000	
19408-74-3	hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	June 1, 1990	August 18, 2000	
35822-46-9	heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	June 1, 1990	August 18, 2000	
3268-87-9	octachlorodibenzo-p-dioxin, 1,2,3,4, 6,7,8,9-	June 1, 1990	August 18, 2000	

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
41903-57-5	total tetrachlorodibenzo-p-dioxin	June 1, 1990	August 18, 2000	
36088-22-9	total pentachlorodibenzo-p-dioxin	June 1, 1990	August 18, 2000	
34465-46-8	total hexachlorodibenzo-p-dioxin	June 1, 1990	August 18, 2000	
37871-00-4	total heptachlorodibenzo-p-dioxin	June 1, 1990	August 18, 2000	
	total dioxins, with individual isomers reported	June 1, 1990	August 18, 2000	
	total dioxins, without individual isomers reported	June 1, 1990	August 18, 2000	
	dibenzofurans (chlorinated)			
5120-73-19	tetrachlorodibenzofuran, 2,3,7,8-	June 1, 1990	August 18, 2000	
57117-41-6	pentachlorodibenzofuran, 1,2,3,7,8-	June 1, 1990	August 18, 2000	
57117-31-4	pentachlorodibenzofuran, 2,3,4,7,8-	June 1, 1990	August 18, 2000	
70648-26-9	hexachlorodibenzofuran, 1,2,3,4,7,8-	June 1, 1990	August 18, 2000	
57117-44-9	hexachlorodibenzofuran, 1,2,3,6,7,8-	June 1, 1990	August 18, 2000	
72918-21-9	hexachlorodibenzofuran, 1,2,3,7,8,9-	June 1, 1990	August 18, 2000	
60851-34-5	hexachlorodibenzofuran, 2,3,4,6,7,8-	June 1, 1990	August 18, 2000	
67562-39-4	heptachlorodibenzofuran, 1,2,3,4,6,7,8-	June 1, 1990	August 18, 2000	
55673-89-7	heptachlorodibenzofuran, 1,2,3,4,7,8,9-	June 1, 1990	August 18, 2000	
39001-02-0	octachlorodibenzofuran, 1,2,3,4,5,6,7,8	June 1, 1990	August 18, 2000	
55722-27-5	total tetrachlorodibenzofuran	June 1, 1990	August 18, 2000	
30402-15-4	total pentachlorodibenzofuran	June 1, 1990	August 18, 2000	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
55684-94-1	total hexachlorodibenzofuran	June 1, 1990	August 18, 2000	
38998-75-3	total heptachlorodibenzofuran	June 1, 1990	August 18, 2000	
96-12-8	dibromo-3-chloropropane, 1,2- (DBCP)	September 8, 1998	**	
106-46-7	dichlorobenzene, 1,4- (or p-dichlorobenzene)	September 8, 1998	June 15, 2001	
91-94-1	dichlorobenzidine, 3,3	December 7, 1990		
75-34-3	dichloroethane, 1,1-	January 8, 1999		
75-35-4	dichloroethylene, 1,1- (see vinylidene chloride)			
9901 (emittant ID)	diesel PM – diesel particulate matter from diesel-fueled internal combustion engine exhaust	March 7, 2008	March 7, 2008	
111-42-2	diethanolamine		May 3, 2002	
60-11-7	dimethylaminoazobenzene, p-	January 8, 1999		
68-12-2	dimethylformamide (N,N-)		June 15, 2001	
121-14-2	dinitrotoluene, 2,4-	December 7, 1990		
123-91-1	dioxane, 1,4- (or 1,4-diethylene dioxide)	December 7, 1990	August 18, 2000	August 13, 1999
106-89-8	epichlorohydrin (or 1-chloro-2,3-epoxypropane)	December 7, 1990	June 15, 2001	August 13, 1999
106-88-7	epoxybutane,1,2-		June 15, 2001	
140-88-5	ethyl acrylate		*	
100-41-4	ethyl benzene	June 5, 2009	August 18, 2000	
75-00-3	ethyl chloride (or chloroethane)		August 18, 2000	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
106-93-4	ethylene dibromide (or 1,2-dibromoethane)	June 1, 1990	May 3, 2002	
107-06-2	ethylene dichloride (or 1,2-dichloroethane)	June 1, 1990	June 15, 2001	
75-21-8	ethylene oxide (or 1,2-epoxyethane)	June 1, 1990	June 15, 2001	
96-45-7	ethylene thiourea	January 8, 1999		
1101	Fluorides (except hydrogen fluoride, listed separately below)		September 10, 2010	August 13, 1999
50-00-0	formaldehyde	December 7, 1990	August 18, 2000	August 13, 1999
	gasoline vapors		*	
111-30-8	glutaraldehyde		June 15, 2001	
	glycol ethers (and their acetates)			
107-21-1	ethylene glycol		August 18, 2000	
111-76-2	ethylene glycol butyl ether		*	August 13, 1999
110-80-5	ethylene glycol ethyl ether		August 18, 2000	February 10, 1999
111-15-9	ethylene glycol ethyl ether acetate		August 18, 2000	August 13, 1999
109-86-4	ethylene glycol methyl ether		August 18, 2000	August 13, 1999
110-49-6	ethylene glycol methyl ether acetate		August 18, 2000	
118-74-1	hexachlorobenzene	December 7, 1990	**	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
608-73-1	**hexachlorocyclohexanes (mixed or technical grade)**	December 7, 1990	**	
319-85-6	hexachlorocyclohexane, alpha	September 8, 1998		
319-85-7	hexachlorocyclohexane, beta	September 8, 1998		
58-89-9	hexachlorocyclohexane, gamma- (lindane)	September 8, 1998	**	
77-47-4	hexachlorocyclopentadiene		*	
110-54-3	hexane		August 18, 2000	
302-01-2	hydrazine	September 8, 1998	June 15, 2001	
122-66-7	hydrazobenzene (or 1,2-diphenylhydrazine)	December 7, 1990		
7647-01-0	hydrochloric acid (or hydrogen chloride)		August 18, 2000	August 13, 1999
7664-39-3	hydrofluoric acid (or hydrogen fluoride)		September 10, 2010	August 13, 1999
10035-10-6	hydrogen bromide (HBR)		*	
74-90-8	hydrogen cyanide		August 18, 2000	August 13, 1999
7783-06-4	hydrogen sulfide		August 18, 2000	February 10, 1999
7783-07-5	hydrogen selenide			August 13, 1999
	isocyanates			
624-83-9	methyl isocyanate		May 3, 2002	
78-59-1	isophrone		May 3, 2002	
67-63-0	isopropyl alcohol		August 18, 2000	August 13, 1999

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
7439-92-1	**lead and lead compounds (inorganic, including elemental lead)** including, but not limited to:	September 8, 1998	**	
	lead compounds (inorganic)	September 8, 1998	**	
301-04-2	lead acetate	September 8, 1998	**	
7758-97-6	lead chromate	September 8, 1998	**	
7446-27-7	lead phosphate	September 8, 1998	**	
1335-32-6	lead subacetate	September 8, 1998	**	
	lead compounds (other than inorganic)	September 8, 1998	**	
108-31-6	maleic anhydride		May 3, 2002	
7439-96-5	manganese and manganese compounds		August 18, 2000	
7439-97-6	**mercury and mercury compounds (inorganic)** including, but not limited to:		August 18, 2000	August 13, 1999
7487-94-7	mercuric chloride		August 18, 2000	
593-74-8	methyl mercury		August 18, 2000	
67-56-1	methanol (methyl alcohol)		August 18, 2000	August 13, 1999
74-83-9	methyl bromide (or bromomethane)		August 18, 2000	August 13, 1999
71-55-6	methyl chloroform (or 1,1,1-trichloroethane)		August 18, 2000	August 13, 1999
78-93-3	methyl ethyl ketone		*	August 13, 1999
80-62-6	methyl methacrylate		*	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
1634-04-4	methyl tert-butyl ether	May 2, 2003	August 18, 2000	
101-14-4	methylene bis(2-chloroaniline), 4,4- (MOCA)	January 8, 1999		
75-09-2	methylene chloride (or dichloromethane)	June 1, 1990	August 18, 2000	August 13, 1999
101-77-9	methylene dianiline, 4,4'- (and its dichloride)	September 8, 1998	May 3, 2002	
101-68-8	methylene diphenyl diisocyanate		June 15, 2001	September 1, 2017
1135	mineral fibers (other than man-made)		*	
90-94-8	michler's ketone	January 8, 1999		
7440-02-0	**nickel and nickel compounds:** including, but not limited to:	March 12, 1999	August 18, 2000	August 13, 1999
373-02-4	nickel acetate	March 12, 1999	August 18, 2000	August 13, 1999
3333-67-3	nickel carbonate	March 12, 1999	August 18, 2000	August 13, 1999
13463-39-3	nickel carbonyl	March 12, 1999	August 18, 2000	August 13, 1999
12054-48-7	nickel hydroxide	March 12, 1999	August 18, 2000	August 13, 1999
1313-99-1	nickel oxide	March 12, 1999	August 18, 2000	August 13, 1999
12035-72-2	nickel subsulfide	December 7, 1990	August 18, 2000	August 13, 1999
1271-28-9	nickelocene	March 12, 1999	August 18, 2000	August 13, 1999
	refinery dust from the pyrometallurgical process	December 7, 1990	August 18, 2000	August 13, 1999
7697-37-2	nitric acid		*	August 13, 1999
98-95-3	nitrobenzene		*	
79-46-9	nitropropane, 2-		*	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
759-73-9	nitroso-n-ethylurea, n-	December 7, 1990		
684-93-5	nitroso-n-methylurea, n-	December 7, 1990		
86-30-6	nitrosodiphenylamine, n-	December 7, 1990		
156-10-5	nitrosodiphenylamine, p-	September 8, 1998		
59-89-2	nitrosomorpholine, n-	January 8, 1999		
100-75-4	nitrosopiperidine, n-	January 8, 1999		
930-55-2	nitrosopyrrolidine, n-	December 7, 1990		
108171-26-2	paraffins, chlorinated (average chain length, c12; approx. 60% cl by weight)	January 8, 1999		
127-18-4	perchloroethylene (or tetrachloroethylene)	September 8, 1998	September 8, 1998	August 13, 1999
108-95-2	phenol		August 18, 2000	August 13, 1999
75-44-5	phosgene		*	August 13, 1999
7723-14-0 7803-51-2	**phosphorus and phosphorus compounds** phosphine		* February 7, 2003	
7664-38-2	phosphoric acid		August 18, 2000	
85-44-9	phthalic anhydride		June 15, 2001	
1336-36-3 32598-13-3 70362-50-4 32598-14-4 74472-37-0	**polychlorinated biphenyls (PCBs)** 3,3',4,4' Tetrachlorobiphenyl 3,4,4',5 Tetrachlorobiphenyl 2,3,3',4,4' Pentachlorobiphenyl 2,3,4,4',5 Pentachlorobiphenyl	December 7, 1990 March 4, 2005*** March 4, 2005*** March 4, 2005*** March 4, 2005***	** March 4, 2005*** March 4, 2005*** March 4, 2005*** March 4, 2005***	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
31508-00-6	2,3',4,4',5 Pentachlorobiphenyl	March 4, 2005***	March 4, 2005***	
65510-44-3	2',3,4,4',5 Pentachlorobiphenyl	March 4, 2005***	March 4, 2005***	
57465-28-8	3,3',4,4',5 Pentachlorobiphenyl	March 4, 2005***	March 4, 2005***	
38380-08-4	2,3,3',4,4',5 Hexachlorobiphenyl	March 4, 2005***	March 4, 2005***	
69782-90-7	2,3,3',4,4',5' Hexachlorobiphenyl	March 4, 2005***	March 4, 2005***	
52663-72-6	2,3',4,4',5.5' Hexachlorobiphenyl	March 4, 2005***	March 4, 2005***	
32774-16-6	3,3',4,4',5,5' Hexachlorobiphenyl	March 4, 2005***	March 4, 2005***	
39635-31-9	2,3,3'4,4',5,5' Heptachlorobiphenyl	March 4, 2005***	March 4, 2005***	
	polycyclic aromatic hydrocarbons (PAHs)			
56-55-3	benz[a]anthracene	December 7, 1990		
50-32-8	benzo[a]pyrene	December 7, 1990		
205-99-2	benzo[b]fluoranthene	December 7, 1990		
205-82-3	benzo[j]fluoranthene	January 8, 1999		
207-08-9	benzo[k]fluoranthene	December 7, 1990		
218-01-9	chrysene	December 7, 1990		
226-36-8	dibenz[a,h]acridine	January 8, 1999		
224-42-0	dibenz[a,j]acridine	January 8, 1999		
53-70-3	dibenz[a,h]anthracene	December 7, 1990		
192-65-4	dibenzo[a,e]pyrene	January 8, 1999		
189-64-0	dibenzo[a,h]pyrene	January 8, 1999		
189-55-9	dibenzo[a,i]pyrene	January 8, 1999		

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CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
191-30-0	dibenzo[a,l]pyrene	January 8, 1999		
194-59-2	dibenzo[c,g]carbazole, 7h-	January 8, 1999		
57-97-6	dimethylbenz[a]anthracene, 7,12-	January 8, 1999		
42397-64-8	dinitropyrene, 1,6-	January 8, 1999		
42397-65-9	dinitropyrene, 1,8-	January 8, 1999		
193-39-5	indeno[1,2,3-cd]pyrene	December 7, 1990		
56-49-5	methylcholanthrene, 3-	January 8, 1999		
3697-24-3	methylchrysene, 5-	January 8, 1999		
91-20-3	naphthalene	March 4, 2005***	August 18, 2000	
602-87-9	nitroacenaphthene, 5-	January 8, 1999		
7496-02-8	nitrochrysene, 6-	January 8, 1999		
607-57-8	nitrofluorene, 2-	January 8, 1999		
5522-43-0	nitropyrene, 1-	January 8, 1999		
57835-92-4	nitropyrene, 4-	January 8, 1999		
1150/1151	polycyclic aromatic hydrocarbons (PAHs), total	September 8, 1998		
7758-01-2	potassium bromate	January 8, 1999		
1120-71-4	propane sultone, 1,3-	January 8, 1999		
115-07-1	propylene		August 18, 2000	
107-98-2	propylene glycol methyl ether		August 18, 2000	
75-56-9	propylene oxide (or 1,2-epoxy propane)	September 8, 1998	February 23, 2000	August 13, 1999

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CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
7782-49-2	**selenium and selenium compounds** other than hydrogen selenide		May 3, 2002	
1310-73-2	sodium hydroxide		*	August 13, 1999
100-42-5	styrene (or vinyl benzene)		August 18, 2000	August 13, 1999
7664-93-9	sulfuric acid (and oleum)		May 3, 2002	August 13, 1999
79-34-5	tetrachloroethane, 1,1,2,2-	January 8, 1999		
62-55-5	thioacetamide	January 8, 1999		
108-88-3	toluene (or methyl benzene)		August 18, 2000	August 13, 1999
	toluene diisocyanates			
584-84-9	toluene-2,4-diisocyanate	September 8, 1998	June 15, 2001	September 1, 2017
91-08-7	toluene-2,6-diisocyanate	September 8, 1998	June 15, 2001	September 1, 2017
79-00-5	trichloroethane, 1,1,2-	January 8, 1999		
79-01-6	trichloroethylene	December 7, 1990	August 18, 2000	
121-44-8	triethylamine		February 7, 2003	August 13, 1999
51-79-6	urethane (or ethyl carbamate)	September 8, 1998		
7440-62-2	vanadium (fume or dust)			August 13, 1999
1314-62-1	vanadium pentoxide			August 13, 1999
108-05-4	vinyl acetate		May 3, 2002	
75-01-4	vinyl chloride (or chloroethylene)	December 7, 1990	**	August 13, 1999
75-35-4	vinylidene chloride (dichloroethylene, 1,1-)		June 15, 2001	

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE CANCER	EFFECTIVE DATE CHRONIC	EFFECTIVE DATE ACUTE
1330-20-7	**xylenes (isomers and mixture)**		August 18, 2000	August 13, 1999
108-38-3	xylene, m-		August 18, 2000	August 13, 1999
95-47-6	xylene, o-		August 18, 2000	August 13, 1999
106-42-3	xylene, p-		August 18, 2000	August 13, 1999
7440-66-6	**zinc and zinc compounds**		*	
	including, but not limited to:			
1314-13-2	zinc oxide		*	

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CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
75-07-0	acetaldehyde	12/07/1990	09/08/1998	06/05/2015	09/10/2010
60-35-5	acetamide	01/08/1999			
107-02-8	acrolein		06/15/2001	06/05/2015	08/13/1999
79-06-1	acrylamide (or propenamide)	12/07/1990	**		
79-10-7	acrylic acid		*		08/13/1999
107-13-1	acrylonitrile (or vinyl cyanide)	12/07/1990	05/03/2002		
107-05-1	allyl chloride	01/08/1999			
117-79-3	aminoanthraquinone, 2-	01/08/1999			
7664-41-7	ammonia		08/18/2000		08/13/1999
62-53-3 142-04-1	**aniline** aniline hydrochloride	01/08/1999 01/08/1999			

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7440-38-2	**arsenic and arsenic compounds (inorganic)** including, but not limited to: arsenic compounds (inorganic oxides)	12/07/1990	06/15/2001	06/05/2015	08/13/1999
7778-39-4	arsenic acid	12/07/1990	06/15/2001	06/05/2015	08/13/1999
1303-28-2	arsenic pentoxide	12/07/1990	06/15/2001	06/05/2015	08/13/1999
1327-53-3	arsenic trioxide	12/07/1990	06/15/2001	06/05/2015	08/13/1999
7784-42-1	arsine		09/10/2010	06/05/2015	08/13/1999
7778-44-1	calcium arsenate	12/07/1990	06/15/2001	06/05/2015	08/13/1999
1303-00-0	gallium arsenide	12/07/1990	06/15/2001	06/05/2015	08/13/1999
1332-21-4	**asbestos**	06/01/1990			
77536-66-4	actinolite	06/01/1990			
12172-73-5	amosite	06/01/1990			
77536-67-5	anthophyllite	06/01/1990			
12001-29-5	chrysotile	06/01/1990			
12001-28-4	crocidolite	06/01/1990			
77536-68-6	tremolite	06/01/1990			
71-43-2	benzene (including benzene from gasoline)	06/01/1990	08/18/2000	06/05/2015	08/13/1999

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CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
92-87-5	**benzidine (and its salts) values also apply to:**	12/07/1990	**		
1020	benzidine based dyes	12/07/1990			
28407-37-6	C.I. Direct Blue 218 [PAHDerivative/Related, POM]-	12/07/1990			
612-82-8	3,3'-dimethylbenzidine dihydrochloride	12/07/1990			
1937-37-7	direct Black 38	12/07/1990			
2602-46-2	direct Blue 6	12/07/1990			
16071-86-6	direct Brown 95 (technical grade)	12/07/1990			
100-44-7	benzyl chloride	09/08/1998	**		08/13/1999
7440-41-7	**beryllium and beryllium compounds**	12/07/1990	05/03/2002		
13510-49-1	beryllium sulfate	12/07/1990	05/03/2002		
7787-56-6	beryllium sulfate (tetrahydrate)	12/07/1990	05/03/2002		
1304-56-9	beryllium oxide	12/07/1990	05/03/2002		
111-44-4	bis(2-chloroethyl)ether (DCEE) [dichloroethylether]	12/07/1990			
117-81-7	bis(2-ethylhexyl)phthalate (DEHP) [di(2-ethylhexyl)phthalate]	09/08/1998	**		
542-88-1	bis(chloromethyl)ether	12/07/1990			

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CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7789-30-2	bromine pentafluoride		*		
106-94-5	1-bromopropane	08/07/2026	08/07/2026	08/07/2026	08/07/2026
106-99-0	butadiene, 1,3-	12/07/1990	06/15/2001	06/05/2015	09/01/2017
7440-43-9	**cadmium and cadmium compounds**	06/01/1990	06/15/2001		
10108-64-2	cadmium chloride	06/01/1990	06/15/2001		
141-00-4	cadmium succinate	06/01/1990	06/15/2001		
105-60-2	caprolactum		09/01/2017	09/01/2017	09/01/2017
75-15-0	carbon disulfide		05/03/2002		08/13/1999
56-23-5	carbon tetrachloride (or tetrachloromethane)	06/01/1990	06/15/2001		08/13/1999
463-58-1	carbonyl sulfide		09/01/2017	09/01/2017	09/01/2017
7782-50-5	chlorine		08/18/2000		08/13/1999
10049-04-4	chlorine dioxide		06/15/2001		
95-83-0	chloro-o-phenylenediamine, 4-	01/08/1999			
95-69-2	chloro-o-toluidine, p-	01/08/1999			
108-90-7	chlorobenzene		06/15/2001		

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CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
	chlorofluorocarbons				
75-43-4	dichlorodifluoromethane (CFC-12)		*		
75-69-4	trichlorofluoromethane (CFC-11)		*		
76-13-1	trichlorotrifluoroethane (CFC-113)		*		
67-66-3	chloroform (trichloromethane)	12/07/1990	08/18/2000		08/13/1999
1060	**chlorophenols**				
95-57-8	chlorophenol, 2-		*		
88-06-2	trichlorophenol, 2,4,6-	12/07/1990			
	tetrachlorophenols (TECPH)		*		
87-86-5	pentachlorophenolT	09/08/1998	**		
76-06-2	chloropicrin		05/03/2002		08/13/1999
126-99-8	chloroprene		**		
98-56-6	1-chloro-4(trifluoromethyl)benzene (pCBtF)	12/31/2027			
16065-83-1	chromium (III)		08/07/2026	08/07/2026	08/07/2026

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
18540-29-9	**chromium (hexavalent) and chromium compounds**	06/01/1990	06/15/2001		
	including, but not limited to:				
10294-40-3	barium chromate	06/01/1990	06/15/2001		
1189-85-1	t-butyl chromate (IV)	06/01/1990	06/15/2001		
13765-19-0	calcium chromate	06/01/1990	06/15/2001		
7758-97-6	lead chromate	09/08/1998	06/15/2001		
10588-01-9	sodium dichromate	06/01/1990	06/15/2001		
7789-06-2	strontium chromate	06/01/1990	06/15/2001		
13530-65-9	zinc chromate	06/01/1990	06/15/2001		
1333-82-0	chromic trioxide	06/01/1990	06/15/2001		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7440-48-4	**cobalt**	08/07/2026			
1216	cobalt compounds, insoluble, including but not limited to:	08/07/2026			
513-79-1	cobalt carbonate	08/07/2026			
10210-68-1	cobalt carbonyl	08/07/2026			
21041-93-0	cobalt hydroxide	08/07/2026			
814-89-1	cobalt oxalate	08/07/2026			
1307-96-6	cobalt [II] oxide	08/07/2026			
1308-06-1	cobalt [III] oxide	08/07/2026			
1317-42-6	cobalt sulfide	08/07/2026			
1217	Cobalt sulfate and other soluble cobalt compounds, including but not limited to:	08/07/2026			
71-48-7	cobalt acetate (tetrahydrate)	08/07/2026			
7646-79-9	cobalt chloride (hexahydrate)	08/07/2026			
16842-03-8	cobalt hydrocarbonyl	08/07/2026			
10141-05-6	cobalt nitrate (hexahydrate)	08/07/2026			
136-52-7	cobalt octoate	08/07/2026			
10124-43-3	cobalt sulfate	08/07/2026			
10026-24-1	cobalt sulfate (heptahydrate)	08/07/2026			

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7440-50-8 [1067]	copper and copper compounds [including but not limited to: copper fume (as copper)]		*		08/13/1999
120-71-8	cresidine, p-	01/08/1999			
1319-77-3	**cresols/cresylic acid (all isomers and mixture)**		06/15/2001		
108-39-4	cresol, m-		06/15/2001		
95-48-7	cresol, o-		06/15/2001		
106-44-5	cresol, p-		06/15/2001		
135-20-6	cupferron	01/08/1999			
	dialkylnitrosamines				
924-16-3	nitrosodi-n-butylamine, n-	12/07/1990			
621-64-7	nitrosodi-n-propylamine, n-	09/08/1998			
55-18-5	nitrosodiethylamine, n-	12/07/1990			
62-75-9	nitrosodimethylamine, n-	12/07/1990			
10595-95-6	nitrosomethylethylamine, n-	09/08/1998			
615-05-4	diaminoanisole, 2,4- (sulfate)	01/08/1999			
95-80-7	diaminotoluene, 2,4-	01/08/1999			
	dibenzo-p-dioxins (chlorinated)				
1746-01-6	tetrachlorodibenzo-p-dioxin, 2,3,7,8-	06/01/1990	08/18/2000		
40321-76-4	pentachlorodibenzo-p-dioxin, 1,2,3,7,8-	06/01/1990	08/18/2000		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
39227-28-6	hexachlorodibenzo-p-dioxin, 1,2,3,4,7,8-	06/01/1990	08/18/2000		
57653-85-7	hexachlorodibenzo-p-dioxin, 1,2,3,6,7,8-	06/01/1990	08/18/2000		
19408-74-3	hexachlorodibenzo-p-dioxin, 1,2,3,7,8,9-	06/01/1990	08/18/2000		
35822-46-9	heptachlorodibenzo-p-dioxin, 1,2,3,4,6,7,8-	06/01/1990	08/18/2000		
3268-87-9	octachlorodibenzo-p-dioxin, 1,2,3,4, 6,7,8,9-	06/01/1990	08/18/2000		
41903-57-5	total tetrachlorodibenzo-p-dioxin	06/01/1990	08/18/2000		
36088-22-9	total pentachlorodibenzo-p-dioxin	06/01/1990	08/18/2000		
34465-46-8	total hexachlorodibenzo-p-dioxin	06/01/1990	08/18/2000		
37871-00-4	total heptachlorodibenzo-p-dioxin	06/01/1990	08/18/2000		
1085	total dioxins, with individual isomers reported	06/01/1990	08/18/2000		
1086	total dioxins, without individual isomers reported	06/01/1990	08/18/2000		
	dibenzofurans (chlorinated)				
5120-73-19	tetrachlorodibenzofuran, 2,3,7,8-	06/01/1990	08/18/2000		
57117-41-6	pentachlorodibenzofuran, 1,2,3,7,8-	06/01/1990	08/18/2000		
57117-31-4	pentachlorodibenzofuran, 2,3,4,7,8-	06/01/1990	08/18/2000		
70648-26-9	hexachlorodibenzofuran, 1,2,3,4,7,8-	06/01/1990	08/18/2000		
57117-44-9	hexachlorodibenzofuran, 1,2,3,6,7,8-	06/01/1990	08/18/2000		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
72918-21-9	hexachlorodibenzofuran, 1,2,3,7,8,9-	06/01/1990	08/18/2000		
60851-34-5	hexachlorodibenzofuran, 2,3,4,6,7,8-	06/01/1990	08/18/2000		
67562-39-4	heptachlorodibenzofuran, 1,2,3,4,6,7,8-	06/01/1990	08/18/2000		
55673-89-7	heptachlorodibenzofuran, 1,2,3,4,7,8,9-	06/01/1990	08/18/2000		
39001-02-0	octachlorodibenzofuran, 1,2,3,4,5,6,7,8	06/01/1990	08/18/2000		
55722-27-5	total tetrachlorodibenzofuran	06/01/1990	08/18/2000		
30402-15-4	total pentachlorodibenzofuran	06/01/1990	08/18/2000		
55684-94-1	total hexachlorodibenzofuran	06/01/1990	08/18/2000		
38998-75-3	total heptachlorodibenzofuran	06/01/1990	08/18/2000		
1080	total dibenzofurans, without individual isomers reported	06/01/1990	08/18/2000		
96-12-8	dibromo-3-chloropropane, 1,2- (DBCP)	09/08/1998	**		
106-46-7	dichlorobenzene, 1,4- (or p-dichlorobenzene)	09/08/1998	06/15/2001	07/18/2025	08/07/2026
91-94-1	dichlorobenzidine, 3,3	12/07/1990			
75-34-3	dichloroethane, 1,1-	01/08/1999			
75-35-4	dichloroethylene, 1,1- (see vinylidene chloride)				
9901 (emittant ID)	diesel PM – diesel particulate matter from diesel-fueled internal combustion engine exhaust	03/07/2008	03/07/2008		
111-42-2	diethanolamine		05/03/2002		

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
60-11-7	dimethylaminoazobenzene, p-	01/08/1999			
68-12-2	dimethylformamide (N,N-)		06/15/2001		
121-14-2	**dinitrotoluene, 2,4-**	12/07/1990			
1326-41-6	2,4-dinitrotoluene, sulfurized	12/07/1990			
123-91-1	dioxane, 1,4- (or 1,4-diethylene dioxide)	12/07/1990	08/18/2000		08/13/1999
106-89-8	epichlorohydrin (or 1-chloro-2,3-epoxypropane)	12/07/1990	06/15/2001		08/13/1999
106-88-7	epoxybutane,1,2-		06/15/2001		
140-88-5	ethyl acrylate		*		
100-41-4	ethyl benzene	06/05/2009	08/18/2000		
75-00-3	ethyl chloride (or chloroethane)		08/18/2000		
106-93-4	ethylene dibromide (or 1,2-dibromoethane)	06/01/1990	05/03/2002		
107-06-2	ethylene dichloride (or 1,2-dichloroethane)	06/01/1990	06/15/2001		
75-21-8	ethylene oxide (or 1,2-epoxyethane)	06/01/1990	06/15/2001		
96-45-7	ethylene thiourea	01/08/1999			
1101	**Fluorides and compounds (except hydrogen fluoride, listed separately below)**		09/10/2010		08/13/1999
1141	modified hydrogen fluoride (MHF)		09/10/2010		08/13/1999
7783-79-1	selenium hexafluoride		09/10/2010		08/13/1999

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
15096-52-3	sodium aluminum fluoride		09/10/2010		
7681-49-4	sodium fluoride		09/10/2010		
50-00-0	formaldehyde	12/07/1990	08/18/2000	06/05/2015	08/13/1999
	~~gasoline vapors~~		~~*~~		
111-30-8	glutaraldehyde		06/15/2001		
1115	**glycol ethers (and their acetates)**				
107-21-1	ethylene glycol		08/18/2000		
111-76-2	ethylene glycol butyl ether		~~*~~ 05/04/2018	05/04/2018	08/13/1999
110-80-5	ethylene glycol ethyl ether		08/18/2000		02/10/1999
111-15-9	ethylene glycol ethyl ether acetate		08/18/2000		08/13/1999
109-86-4	ethylene glycol methyl ether		08/18/2000		08/13/1999
110-49-6	ethylene glycol methyl ether acetate		08/18/2000		
118-74-1	hexachlorobenzene	12/07/1990	**		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
608-73-1	**hexachlorocyclohexanes (mixed or technical grade)**	12/07/1990	**		
319-84-6	hexachlorocyclohexane, alpha	09/08/1998			
319-85-7	hexachlorocyclohexane, beta	09/08/1998			
58-89-9	hexachlorocyclohexane, gamma- (lindane)	09/08/1998	**		
77-47-4	hexachlorocyclopentadiene		*		
822-06-0	1,6-hexamethylene diisocyanate (monomer)[n]		08/07/2026	08/07/2026	08/07/2026
110-54-3	hexane		08/18/2000		
302-01-2	hydrazine	09/08/1998	06/15/2001		
122-66-7	hydrazobenzene (or 1,2-diphenylhydrazine)	12/07/1990			
7647-01-0	hydrochloric acid (or hydrogen chloride)		08/18/2000		08/13/1999
7664-39-3	hydrofluoric acid (or hydrogen fluoride)		09/10/2010		08/13/1999
10035-10-6	hydrogen bromide (HBR)		*		
74-90-8	hydrogen cyanide		08/18/2000		08/13/1999
7783-06-4	hydrogen sulfide		08/18/2000		02/10/1999
7783-07-5	hydrogen selenide				08/13/1999
	isocyanates				
624-83-9	methyl isocyanate		05/03/2002		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
78-59-1	isophrone		05/03/2002		
78-79-5	isoprene	08/07/2026			
67-63-0	isopropyl alcohol		08/18/2000		08/13/1999
7439-92-1	**lead and lead compounds (inorganic, including elemental lead) including, but not limited to:**	09/08/1998	**		
1128	lead compounds (inorganic)	09/08/1998	**		
301-04-2	lead acetate	09/08/1998	**		
7758-97-6	lead chromate	09/08/1998	**		
7446-27-7	lead phosphate	09/08/1998	**		
1335-32-6	lead subacetate	09/08/1998	**		
	lead compounds (other than inorganic)	09/08/1998	**		
108-31-6	maleic anhydride		05/03/2002		
7439-96-5	**manganese and manganese compounds**		08/18/2000	06/05/2015	
12079-65-1	manganese cyclopentadienyl tricarbonyl		08/18/2000	06/05/2015	
12108-13-3	2-methylcyclopentadienyl manganese-tricarbonyl		08/18/2000	06/05/2015	

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7439-97-6	**mercury and mercury compounds (inorganic)** including, but not limited to:		08/18/2000	06/05/2015	08/13/1999
7487-94-7	mercuric chloride		08/18/2000	06/05/2015	
~~593-74-8~~	~~methyl mercury~~		~~08/18/2000~~		
67-56-1	methanol (methyl alcohol)		08/18/2000		08/13/1999
74-83-9	methyl bromide (or bromomethane)		08/18/2000		08/13/1999
71-55-6	methyl chloroform (or 1,1,1-trichloroethane)		08/18/2000		08/13/1999
78-93-3	methyl ethyl ketone		*		08/13/1999
80-62-6	methyl methacrylate		*		
1634-04-4	methyl tert-butyl ether	05/02/2003	08/18/2000		
101-14-4	methylene bis(2-chloroaniline), 4,4- (MOCA)	01/08/1999			
75-09-2	methylene chloride (or dichloromethane)	06/01/1990	08/18/2000		08/13/1999
101-77-9	methylene dianiline, 4,4'- (and its dichloride)	09/08/1998	05/03/2002		
101-68-8	methylene diphenyl diisocyanate		06/15/2001	03/28/2016	09/01/2017
1135	mineral fibers (other than man-made)		*		
90-94-8	michler's ketone	01/08/1999			
7440-02-0	**nickel and nickel compounds:** including, but not limited to:	03/12/1999	08/18/2000	06/05/2015	08/13/1999

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
373-02-4	nickel acetate	03/12/1999	08/18/2000	06/05/2015	08/13/1999
3333-67-3	nickel carbonate	03/12/1999	08/18/2000	06/05/2015	08/13/1999
13463-39-3	nickel carbonyl	03/12/1999	08/18/2000	06/05/2015	08/13/1999
7718-54-9	nickel chloride	03/12/1999	08/18/2000	06/05/2015	08/13/1999
12054-48-7	nickel hydroxide	03/12/1999	08/18/2000	06/05/2015	08/13/1999
13138-45-9	nickel nitrate {nickel (II) nitrate}	03/12/1999	08/18/2000	06/05/2015	08/13/1999
1313-99-1	nickel oxide	03/12/1999	08/18/2000	06/05/2015	08/13/1999
12035-72-2	nickel subsulfide	12/07/1990	08/18/2000	06/05/2015	08/13/1999
1271-28-9	nickelocene	03/12/1999	08/18/2000	06/05/2015	08/13/1999
1146	refinery dust from the pyrometallurgical process	12/07/1990	08/18/2000	06/05/2015	08/13/1999
7786-81-4	nickel sulfate	03/12/1999	08/18/2000	06/05/2015	08/13/1999
7697-37-2	nitric acid		*		08/13/1999
98-95-3	nitrobenzene		*		
79-46-9	nitropropane, 2-		*		
759-73-9	nitroso-n-ethylurea, n-	12/07/1990			
684-93-5	nitroso-n-methylurea, n-	12/07/1990			
86-30-6	nitrosodiphenylamine, n-	12/07/1990			

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TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
156-10-5	nitrosodiphenylamine, p-	09/08/1998			
59-89-2	nitrosomorpholine, n-	01/08/1999			
100-75-4	nitrosopiperidine, n-	01/08/1999			
930-55-2	nitrosopyrrolidine, n-	12/07/1990			
108171-26-2	paraffins, chlorinated (average chain length, c12; approx. 60% cl by weight)	01/08/1999			
127-18-4	perchloroethylene (or tetrachloroethylene)	09/08/1998	09/08/1998		08/13/1999
108-95-2	phenol		08/18/2000		08/13/1999
75-44-5	phosgene		*		08/13/1999
7723-14-0	**phosphorus and phosphorus compounds**		*		
7803-51-2	phosphine		02/07/2003		
7664-38-2	phosphoric acid		08/18/2000		
85-44-9	phthalic anhydride		06/15/2001		
1336-36-3	**polychlorinated biphenyls (PCBs)**	12/07/1990	**		
32598-13-3	3,3',4,4' Tetrachlorobiphenyl	03/04/2005 ~~***~~	03/04/2005 ~~***~~		
70362-50-4	3,4,4',5 Tetrachlorobiphenyl	03/04/2005 ~~***~~	03/04/2005 ~~***~~		
32598-14-4	2,3,3',4,4' Pentachlorobiphenyl	03/04/2005 ~~***~~	03/04/2005 ~~***~~		
74472-37-0	2,3,4,4',5 Pentachlorobiphenyl	03/04/2005 ~~***~~	03/04/2005 ~~***~~		
31508-00-6	2,3',4,4',5 Pentachlorobiphenyl	03/04/2005 ~~***~~	03/04/2005 ~~***~~		

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
65510-44-3	2',3,4,4',5 Pentachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
57465-28-8	3,3',4,4',5 Pentachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
38380-08-4	2,3,3',4,4',5 Hexachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
69782-90-7	2,3,3',4,4',5' Hexachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
52663-72-6	2,3',4,4',5.5' Hexachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
32774-16-6	3,3',4,4',5,5' Hexachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
39635-31-9	2,3,3'4,4',5,5' Heptachlorobiphenyl	03/04/2005 ***	03/04/2005 ***		
	polycyclic aromatic hydrocarbons (PAHs) [Treated as B(a)P for HRA]				
56-55-3	benz[a]anthracene	12/07/1990			
50-32-8	benzo[a]pyrene	12/07/1990			
205-99-2	benzo[b]fluoranthene	12/07/1990			
205-82-3	benzo[j]fluoranthene	01/08/1999			
207-08-9	benzo[k]fluoranthene	12/07/1990			
218-01-9	chrysene	12/07/1990			
226-36-8	dibenz[a,h]acridine	01/08/1999			
224-42-0	dibenz[a,j]acridine	01/08/1999			
53-70-3	dibenz[a,h]anthracene	12/07/1990			

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
192-65-4	dibenzo[a,e]pyrene	01/08/1999			
189-64-0	dibenzo[a,h]pyrene	01/08/1999			
189-55-9	dibenzo[a,i]pyrene	01/08/1999			
191-30-0	dibenzo[a,l]pyrene	01/08/1999			
194-59-2	dibenzo[c,g]carbazole, 7h-	01/08/1999			
57-97-6	dimethylbenz[a]anthracene, 7,12-	01/08/1999			
42397-64-8	dinitropyrene, 1,6-	01/08/1999			
42397-65-9	dinitropyrene, 1,8-	01/08/1999			
193-39-5	indeno[1,2,3-cd]pyrene	12/07/1990			
56-49-5	methylcholanthrene, 3-	01/08/1999			
3697-24-3	methylchrysene, 5-	01/08/1999			
91-20-3	naphthalene	03/04/2005 ***	08/18/2000		
602-87-9	nitroacenaphthene, 5-	01/08/1999			
7496-02-8	nitrochrysene, 6-	01/08/1999			
607-57-8	nitrofluorene, 2-	01/08/1999			
5522-43-0	nitropyrene, 1-	01/08/1999			
57835-92-4	nitropyrene, 4-	01/08/1999			
1150/1151	polycyclic aromatic hydrocarbons (PAHs), total	09/08/1998			

TABLE I TOXIC AIR CONTAMINANTS					
CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
1221	**polymeric (oligo) hexamethylene1,6-diisocyanate (HDI)**		08/07/2026	08/07/2026	08/07/2026
108-19-0	biuret		08/07/2026	08/07/2026	08/07/2026
1226	diisocyanurate		08/07/2026	08/07/2026	08/07/2026
1227	hdi prepolymer		08/07/2026	08/07/2026	08/07/2026
28182-81-2	hexamethylene diisocyanate homopolymer		08/07/2026	08/07/2026	08/07/2026
3779-63-3	hexamethylene diisocyanate isocyanurate trimer		08/07/2026	08/07/2026	08/07/2026
125252-47-3	hexane, 1,6-diisocyanato-, homopolymer, polyethylene-polypropylene glycol monobutyl ether-blocked		08/07/2026	08/07/2026	08/07/2026
1228	isocyanurate		08/07/2026	08/07/2026	08/07/2026
23501-81-7	uretdione (HDI) {uretidone}		08/07/2026	08/07/2026	08/07/2026
7758-01-2	potassium bromate	01/08/1999			
1120-71-4	propane sultone, 1,3-	01/08/1999			
115-07-1	propylene		08/18/2000		
107-98-2	propylene glycol monomethyl ether		08/18/2000		
75-56-9	propylene oxide (or 1,2-epoxy propane)	09/08/1998	02/23/2000		08/13/1999

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CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
7782-49-2	**selenium and selenium compounds**		05/03/2002		
	other than hydrogen selenide				
7446-34-6	selenium sulfide		05/03/2002		
	selenium hexafluoride see fluorides and compounds				
1310-73-2	sodium hydroxide		*		08/13/1999
100-42-5	styrene (or vinyl benzene)		08/18/2000		08/13/1999
7664-93-9	sulfuric acid (and oleum)		05/03/2002		08/13/1999
540-88-5	tertiary-butyl acetate (TBAc)	08/07/2026			
79-34-5	tetrachloroethane, 1,1,2,2-	01/08/1999			
62-55-5	thioacetamide	01/08/1999			
108-88-3	toluene (or methyl benzene)		08/18/2000	08/20/2020	08/13/1999
26471-62-5	**toluene diisocyanates**				
584-84-9	toluene-2,4-diisocyanate	09/08/1998	06/15/2001	03/28/2016	09/01/2017
91-08-7	toluene-2,6-diisocyanate	09/08/1998	06/15/2001	03/28/2016	09/01/2017
79-00-5	trichloroethane, 1,1,2- (vinyl trichloride)	01/08/1999			
79-01-6	trichloroethylene	12/07/1990	08/18/2000		
121-44-8	triethylamine		02/07/2003		08/13/1999

TABLE I
TOXIC AIR CONTAMINANTS

CAS #	SUBSTANCE	EFFECTIVE DATE			
		CANCER	CHRONIC	8-HOUR	ACUTE
25551-13-7	**trimethylbenzenes**		08/07/2026	08/07/2026	08/07/2026
526-73-8	1,2,3-trimethylbenzene		08/07/2026	08/07/2026	08/07/2026
95-63-6	1,2,4-trimethylbenzene		08/07/2026	08/07/2026	08/07/2026
108-67-8	1,3,5-trimethylbenzene		08/07/2026	08/07/2026	08/07/2026
51-79-6	urethane (or ethyl carbamate)	09/08/1998			
7440-62-2	vanadium (fume or dust)				08/13/1999
1314-62-1	vanadium pentoxide				08/13/1999
108-05-4	vinyl acetate		05/03/2002		
75-01-4	vinyl chloride (or chloroethylene)	12/07/1990	**		08/13/1999
75-35-4	vinylidene chloride (dichloroethylene, 1,1-)		06/15/2001		
1330-20-7	**xylenes (isomers and mixture)**		08/18/2000		08/13/1999
108-38-3	xylene, m-		08/18/2000		08/13/1999
95-47-6	xylene, o-		08/18/2000		08/13/1999
106-42-3	xylene, p-		08/18/2000		08/13/1999
7440-66-6	**zinc and zinc compounds**		*		
	including, but not limited to:				
1314-13-2	zinc oxide		*		

* Compounds not classified as carcinogenic, but have chronic risk values proposed by OEHHA that have not yet been finalized. The effective date is the date the Scientific Review Panel approves the chronic risk value.
** Compounds are classified as carcinogenic, but have chronic risk values proposed by OEHHA that have not yet been finalized. The effective date for use of chronic risk values is the date the Scientific Review Panel approves the chronic risk value.
~~*** Effective date for these risk values will be March 4, 2005 or the date of implementation of the applicable most recent version of Risk Assessment Procedures for Rules 1401, 1401.1 and 212, whichever is later.~~

TABLE II

TOXIC AIR CONTAMINANTS WITH PROPOSED RISK VALUES

CAS #	SUBSTANCE
79-10-7	acrylic acid
107-05-1	allyl chloride
7783-20-2	ammonium sulfate
62-53-3	Aniline
1309-64-4	antimony trioxide
	arsenic compounds (other than inorganic)
532-27-4	chloroacetophenone, 2-
75-45-6	chlorodifluoromethane (HCFC-22)
7440-48-4	cobalt and cobalt compounds
74-85-1	Ethylene
96-45-7	ethylene thiourea
	fluorides and fluoride compounds
87-68-3	hexachlorobutadiene
67-72-1	hexachloroethane
822-06-0	hexamethylene-1,6-diisocyanate
78-93-3	methyl ethyl ketone (or 2-butanone)
7697-37-2	nitric acid
156-10-5	nitrosodiphenylamine, p-
7440-22-4	silver and silver compounds
96-09-3	styrene oxide
79-00-5	trichloroethane, 1,1,2-
593-60-2	vinyl bromide