

REGULATION XII. TOXIC AIR CONTAMINANTS

RULE 1200. TOXIC AIR CONTAMINANTS - NEW SOURCE REVIEW

(Rev. Adopted & Effective (date of adoption))

~~(Adopted & Effective 06/12/96)~~

~~(Tables II, III Toxic Air Contaminants: Rev. Effective 06/05/24)~~

(a) APPLICABILITY

Except as provided in Section (b) of this rule, this rule applies to any new, relocated, or modified emission unit which may increase emissions of one or more toxic air contaminant(s) and for which an Authority to Construct or Permit to Operate is required pursuant to Rule 10, or for which a Notice of Intention or Application for Certification has been accepted by the California Energy Commission. An Application for Certification shall be considered equivalent to an application for an Authority to Construct. Compliance with this rule does not relieve a person from having to comply with other applicable requirements in these rules and regulations, or state and federal law.

(b) EXEMPTIONS

(1) The standards of Section (d) shall not apply to:

(i) The modification of an emission unit made exclusively to comply with the Maximum Achievable Control Technology (MACT) requirements adopted pursuant to either Section 111 or 112 of the Federal Clean Air Act or to comply with requirements of these rules and regulations adopted to implement federal MACT requirements.

(ii) The modification of an emission unit made exclusively to comply with a state Air Toxic Control Measure (ATCM) required by Division 26, Part 2, Chapter 3.5 of the California Health and Safety Code (AB 1807 program) or to comply with a requirement of these rules and regulations adopted to implement state ATCM requirements.

(iii) An existing emission unit requiring a permit solely because of changes to Rule 11 of these rules and regulations provided the application for permit is submitted within one-year after the applicable change to Rule 11 is adopted.

(iv) The modification of an emission unit made exclusively to implement a District approved risk reduction plan required by Division 26, Part 6, Chapter 6 of the California Health and Safety Code (SB 1731 program) or to comply with a requirement of these rules and regulations adopted to implement state SB 1731 program requirements.

(v) The following emission units provided the resulting increase in maximum incremental cancer risk at every receptor location is less than 100 in one million, the total acute noncancer health hazard index is less than 10 and the total chronic noncancer health hazard index is less than 10:

(A) Dry cleaning emission units, provided that Toxics Best Available Control Technology (T-BACT) will be installed.

(B) Gasoline service station emission units, provided that T-BACT will be installed.

(C) Asphalt roofing kettles and tanks.

(D) Automotive refinishing operations not using chrome or lead pigmented coatings.

(E) Emission units used for wood product stripping operations, provided that T-BACT will be installed.

(2) The standards of Subsections (d)(1) and (d)(3) shall not apply to the modification of an emission unit made exclusively to comply with a requirement of these rules and regulations, but not including Rule 1200. The Air Pollution Control Officer may determine for good cause, on a case-by-case basis, that this exemption does not apply to a modified emission unit. In the event such a determination is made, written notice shall be provided by the Air Pollution Control Officer to the project applicant as soon as possible and before the application is deemed complete pursuant to Rule 18. This notice shall state the specific reason why the Air Pollution Control Officer has determined that this exemption does not apply and shall specify what additional requirements the project applicant must meet.

(c) **DEFINITIONS**

(1) “**Air Toxic Control Measure (ATCM)**” means a requirement to reduce emissions of one or more toxic air contaminants developed pursuant to Division 26, Part 2, Chapter 3.5 of the California Health and Safety Code (AB 1807 program).

(2) “**Cancer Burden**” means the estimated potential increase in the occurrence of cancer cases in a population subject to an incremental cancer risk of greater than one in one million resulting from exposure to toxic air contaminants. It shall be calculated pursuant to Section (e).

(3) “**Concurrent Emission Reductions**” means permanent, quantifiable, enforceable, and surplus emission reductions occurring at the same stationary source and within the six months prior to or at the same time as the commencement of operations of new or modified emission units constituting a project. Emission reductions resulting from the shutdown of an emission unit are eligible to be concurrent emission reductions. Concurrent emission reductions shall be calculated pursuant to Section (e).

Notwithstanding the definition of “Surplus,” emission reductions required by Section 111 or 112 (MACT) of the federal Clean Air Act, or Division 26, Part 2, Chapter 3.5 (ATCM) of the California Health and Safety Code may be used as concurrent emission reductions if they occur before they are required by the applicable MACT or ATCM. However, their use as concurrent emission reductions shall expire on the date the reductions required by the applicable MACT or ATCM are actually required to take place. The Permit to Operate for any emission unit which has used such an emission reduction to satisfy in whole or in part the requirements of this rule, shall expire and become null and void on the date that the reductions required by the applicable MACT or ATCM are actually required to take place, unless additional concurrent emission reductions are provided in an amount necessary to satisfy the requirements of this rule.

(4) “**Contiguous Property**” means the same as defined in Rule 2 of these Rules and Regulations.

(5) “**Emission Unit**” means any article, machine, equipment, contrivance, process or process line which emits or may emit one or more toxic air contaminants.

(6) “**Enforceable**” means can be enforced by the District through inclusion of conditions on a valid and current permit.

(7) “**Future Potentially Feasible Cancer Risk Reduction Measure**” means control measures and techniques that are in excess of T-BACT and are expected to be technologically feasible and economically practicable in the future. They include, but are not limited to, pollution prevention measures such as product substitution or modification, process modification, feedstock modification, operational and maintenance improvements; changes in basic control equipment; and enclosing systems or processes to reduce emissions. Future potentially feasible cancer risk reduction measures are different from T-BACT in that they apply to existing permit units. Future potentially feasible cancer risk reduction measures are determined on a case-by-case basis.

(8) “**Maximum Achievable Control Technology (MACT)**” means emission controls or limitations included in any Section 112 requirement of the federal Clean Air Act, including any implementing regulations of the U.S. Environmental Protection Agency, for any source class or category.

(9) “**Maximum Incremental Cancer Risk (MICR)**” means the estimated probability of a potential maximally exposed individual contracting cancer as a result of exposure to toxic air contaminant(s). It shall be calculated pursuant to Section (e) and using net emission increases from the project or emission unit.

(10) “**Modified Emission Unit**” means an emission unit which undergoes any physical or operational change which results or may result in an increase in an emission unit’s toxic air contaminant potential to emit, including toxic air contaminants not previously emitted. An emission unit which undergoes the following shall not be considered a modified emission unit, provided such change is not contrary to any permit condition, and the change does not result in an increase in the toxic air contaminant potential to emit of any toxic air contaminant:

- (i) The movement of a portable emission unit from one stationary source to another.
- (ii) Repair or routine maintenance.
- (iii) An increase in the hours of operation.
- (iv) Use of alternate fuel or raw material.

(11) “**Permanent**” means enforceable and which will exist for the life of the project or emission unit, as may be limited by enforceable permit conditions.

(12) “**Post-Project Potential To Emit**” means a project’s or emission unit’s potential to emit after issuance of an Authority to Construct for the proposed project or emission unit, calculated pursuant to Section (e).

(13) “**Potential to Emit**” means the maximum quantity of toxic air contaminant emissions, including fugitive emissions, that a project or emission unit is capable of emitting considering emission control equipment and calculated pursuant to Section (e).

(14) “**Pre-Project Potential To Emit**” means a project’s or emission unit’s potential to emit prior to issuance of an Authority to Construct for the proposed project or emission unit, calculated pursuant to Section (e).

(15) “**Project**” means an emission unit or aggregation of emission units located at a stationary source for which an application or combination of applications for Authority to Construct or modified Permit to Operate are under District review. It includes any emission unit(s) modified to provide concurrent emission reductions.

(16) “**Quantifiable**” means that a reliable basis for calculating the amount, rate, nature and characteristics of an emission change can be established, as determined by the Air Pollution Control Officer.

(17) “**Receptor Location**” means any location beyond the project’s or emission unit’s stationary source boundaries where the Air Pollution Control Officer has determined exposure to the project’s or emission unit’s (not including any emission unit modified to provide concurrent emission reductions) emissions could reasonably occur.

(18) “**Relocated**” means moved within San Diego County from one stationary source to another stationary source.

(19) “**Stationary Source**” means the same as defined in Rule 2 of these Rules and Regulations.

(20) “**Surplus**” means in excess of any emission reductions which are required by this rule, or which are required by or which the Air Pollution Control Officer reasonably expects will be required by Section 111 or 112 (MACT) of the federal Clean Air Act, or Division 26, Part 2, Chapter 3.5 (ATCM) of the California Health and Safety Code.

Emission reductions used as concurrent emission reductions as part of a project or emission unit subject to the requirements of this rule which occur before the Air Pollution Control Officer reasonably expects they will be required by Section 111 or 112 (MACT) of the federal Clean Air Act, or Division 26, Part 2, Chapter 3.5 (ATCM) of the California Health and Safety Code shall be deemed to be permanently surplus. Emission reductions occurring before December 12, 1995 are not surplus.

Emission reductions associated with Section 111 or 112 (MACT) of the federal Clean Air Act, or Division 26, Part 2, Chapter 3.5 (ATCM) of the California Health and Safety Code and which have been publicly noticed to be required by the federal Environmental Protection Agency (EPA) or the California Air Resources Board (ARB), as applicable, may be deemed to be reasonably expected to occur by the Air Pollution Control Officer. If subsequent public notice is given by such agency that such emission reductions will not be required, such emission reductions shall be deemed to be surplus.

(21) “**Total Acute Noncancer Health Hazard Index**” means the estimated potential risk of acute public health effects and is the sum of the individual substance acute health hazard indexes affecting the same target organ system for a potential maximally exposed individual for all toxic air contaminants ~~identified in Table III for which OEHHA~~ has established acute noncancer health effect values pursuant to Section 44360 of the California Health and Safety Code. It shall be calculated using net emission increases from the project or emission unit. It shall be calculated pursuant to Section (e).

(22) “**Total Chronic Noncancer Health Hazard Index**” means the estimated potential risk of chronic public health effects and is the sum of the individual substance chronic health hazard indexes affecting the same target organ system for a potential maximally exposed individual for all toxic air contaminants ~~identified in Table II for which OEHHA~~ has established chronic noncancer health effect values pursuant to Section 44360 of the California Health and Safety Code. It shall be calculated using net emission increases from the project or emission unit. It shall be calculated pursuant to Section (e).

(23) “**Toxic Air Contaminant (TAC)**” means a substance which: ~~the air~~ ~~contaminants listed in Table I (carcinogenic), Table II (noncarcinogenic—chronic) or Table III (noncarcinogenic—acute) which have a health standard, approved by the state Office of Environmental Health Hazard Assessment (OEHHA) and listed in the California Air Pollution Control Officers Association (CAPCOA) Air Toxics Hot Spots Program Risk Assessment Guidelines, October, 1993 or listed in any health risk assessment guidelines adopted by OEHHA, pursuant to Division 26, Part 6, Chapter 6 of the~~

~~California Health and Safety Code (SB 1731 procedures), that replaces all or part of such CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October, 1993.~~

~~The Air Pollution Control Officer may revise Tables I, II, or III upon OEHHA adoption of revised CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines or upon OEHHA adoption of any health risk assessment guidelines or revisions pursuant to Division 26, Part 6, Chapter 6 of the California Health and Safety Code (SB 1731 procedures), that replace all or part of such CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October, 1993, or with the concurrence of OEHHA and 30 days after public notice of the proposed changes is published in a newspaper of general circulation. A member of the public may petition the Air Pollution Control Officer to add air contaminants to these tables.~~

(i) Is required to be included on the list of toxic substances compiled and maintained by ARB pursuant to Section 44321 of the California Health and Safety Code; and

(ii) Has cancer and/or noncancer (chronic and/or acute) health effect values established by OEHHA pursuant to Section 44360 of the California Health and Safety Code.

(24) “**Toxics Best Available Control Technology (T-BACT)**” means the most effective emission limitation or emission control device or control technique which:

(i) has been achieved in practice for that source or category of source; or

(ii) is any other emissions limitation or control technique, including process and equipment changes of basic and control equipment and implementation of pollution prevention measures, found by the Air Pollution Control Officer to be technologically feasible for that source or category of source, or for a specific source. If there is an applicable MACT standard, the Air Pollution Control Officer shall evaluate it for equivalency with T-BACT.

(d) **STANDARDS**

The Air Pollution Control Officer shall deny an Authority to Construct or Permit to Operate for any new, relocated, or modified emission unit increasing emissions of one or more toxic air contaminants listed in Tables I, II, or III as defined herein unless all of the following requirements are met:

(1) Cancer Risk

(i) T-BACT Not Applied. The increase in maximum incremental cancer risk at every receptor location is equal to or less than one in one million for any project for which new, relocated, or modified emission units that increases maximum incremental cancer risk are not equipped with T-BACT; and

(ii) T-BACT Applied. Except as provided in (d)(1)(iii), the increase in maximum incremental cancer risk at every receptor location is equal to or less than 10 in one million for any project for which all new, relocated, or modified emission units that increases maximum incremental cancer risk are equipped with T-BACT.

(iii) Maximum Incremental Cancer Risk Greater Than 10 in One Million. The Air Pollution Control Officer may grant an Authority to Construct and/or Permit to Operate for a new, relocated, or modified emission unit with an increase in maximum incremental cancer risk at any receptor location of greater than 10 in one million but less than 100 in one million provided all of the following conditions are met:

(A) All new, relocated, or modified emission unit(s) associated with the project that increase maximum incremental cancer risk by more than one in one million are equipped with T-BACT.

(B) The Air Pollution Control Officer prepares a report in support of approving an Authority to Construct for the project. The following information shall be included in the report and shall be provided by the project applicant in report format to the satisfaction of the Air Pollution Control Officer:

- (1) Identification of the toxic air contaminants that would be emitted.
- (2) Identification of the cancer and noncancer (chronic and acute) health impacts of the toxic air contaminants that would be emitted.
- (3) A discussion of any uncertainty associated with the risk assessment that the applicant believes is noteworthy.
- (4) A discussion of the benefits associated with the new or modified project (any emission unit modified to provide concurrent emission reductions need not be included).
- (5) A discussion of any local, state or federal mandates requiring the new or modified project (any emission unit modified to provide concurrent emission reductions need not be included).
- (6) Identification of project impacts on environmental media other than air.

(7) Identification of all sensitive receptors impacted by the new or modified project (any emission unit modified to provide concurrent emission reductions need not be included).

(8) A discussion of how the stationary source will comply with all applicable MACT and ATCM requirements at the time of Authority to Construct issuance.

(9) A demonstration that the cancer burden as a result of the project will not exceed 1.0.

(10) A cancer risk reduction plan for the project (any emission unit modified to provide concurrent emission reductions need not be included) to include the following information:

(i) Identification of the processes and activities causing the toxic air contaminant emissions from the project and what portion of the total project risk is due to each.

(ii) Identification of all future potentially feasible cancer risk reduction measures for the project type.

(iii) An estimate of the risk reduction potential of all future potentially feasible cancer risk reduction measures.

(iv) An estimate of how long it would take to implement all future potentially feasible cancer risk reduction measures.

(v) A determination of the technical feasibility and cost-effectiveness to implement all future potentially feasible cancer risk reduction measures.

(vi) Identification of and a commitment to implement future potentially feasible cancer risk reduction measures for the project to reduce the maximum incremental cancer risk increase from the project to 10 in one million or less, and a detailed schedule for implementation.

(11) A discussion of how each requirement of Subsections (d)(1)(iii), (d)(2), and (d)(3) will be met.

The report required by this Subsection shall be available in draft form for public review at the Air Pollution Control District and at a minimum of one public library (to be determined by the Air Pollution Control Officer) near affected persons for the 30 days required by Subsection (d)(1)(iii)(J) before it is finalized.

(C) The Air Pollution Control Officer will include in any Authority to Construct that is issued for the project a condition(s) requiring implementation of the future potentially feasible cancer risk reduction measures the project applicant committed to implement pursuant to the requirement of Subsection (d)(1)(iii) (B)(10)(vi).

(D) If the project is a modification of an existing stationary source emitting one or more toxic air contaminant(s), T-BACT shall be installed on all permitted emission units at the stationary source that have a maximum incremental cancer risk impact of greater than 10 in one million at any receptor location where the increase in maximum incremental cancer risk as a result of the project is greater than 10 in one million. The Air Pollution Control Officer shall not consider emission units modified to comply with this requirement as part of the project unless specifically requested to do so by the project applicant. Emissions and risk impact data to be used for such impact determinations from non-project emission units shall be from the District program to implement Section 44362 of Division 26 (AB 2588) of the California Health and Safety Code, as such data exists on the date a complete permit application for the project is filed with the District, unless the Air Pollution Control Officer approves the use of other emissions and risk impact data as being more representative.

(E) If the increase in maximum incremental cancer risk as a result of the project is greater than 50 in one million at any receptor location,

(1) all available cancer risk reductions shall be provided from permitted emission units:

(i) located at stationary sources other than the stationary source where the project is located or will be located (e.g. off-site emission reductions), and

(ii) which have a maximum incremental cancer risk impact of greater than 10 in one million at any receptor location where the maximum incremental cancer risk impact as a result of the project is greater than 10 in one million;

or,

(2) cancer risk reductions shall be provided until the increase in maximum incremental cancer risk from the project at all receptor locations is equal to or less than 10 in one million.

Emissions and risk impact data to be used for such impact determinations shall be from the District program to implement Section 44362 of Division 26 (AB 2588) of the California Health and Safety Code, as such data exists on the date a complete permit application for the project is filed with the District,

unless the Air Pollution Control Officer approves the use of other emissions and risk impact data as being more representative.

Cancer risk reductions from any single emission unit required by this Subsection (d)(1)(iii)(E) shall not be required if the project applicant demonstrates to the satisfaction of the Air Pollution Control Officer that the annualized cost of such cancer risk reduction (from such single emission unit) per unit of maximum incremental cancer risk reduced is greater than 1.25 times the annualized cost per unit of maximum incremental cancer risk reduced by T-BACT for the project (not including any emission unit modified to provide concurrent emission reductions).

All emission reductions provided pursuant to this subsection shall be enforceable, permanent, and quantifiable. The stationary source operator shall demonstrate to the satisfaction of the Air Pollution Control Officer that the requirements of this subsection have been met. If emission reductions from permitted units are provided such that the resulting maximum incremental cancer risk from the project at all receptor locations within the project impact area is equal to or less than 10 in one million, the requirements of Subsections (d)(1)(iii)(B), (D), (F), (I), and (J) shall not apply.

(F) The stationary source operator will prepare an annual report on risk reduction methods, including pollution prevention, available for reducing the resulting project (not including any emission unit modified to provide concurrent emission reductions) maximum incremental cancer risk for affected emission units to less than or equal to 10 in one million. Such report shall meet the same requirements as established for the District's program to implement Division 26, Part 6, Chapter 6 (SB 1731 risk reduction program) of the California Health and Safety Code. The stationary source operator shall implement the approved risk reduction methods within one year from the date of approval by the District.

(G) The stationary source is in compliance with all applicable MACT and ATCM requirements at the time of Authority to Construct issuance.

(H) The cancer burden as a result of the project is equal to or less than 1.0.

(I) The stationary source operator will notify affected persons of the project and, after providing a minimum 30 day notice, hold a public meeting (in the area affected by the project) to discuss the project. Notification shall be in writing and shall meet the same requirements as established for District notification procedures to implement Section 44362 of Division 26 (AB 2588 Air Toxics Hot Spots notification program) of the California Health and Safety Code.

(J) After written notice is provided to affected persons, the Air Pollution Control Officer has provided a 30 day period for the public to submit written comments on the following as they relate to the project:

- (1) Does the project meet all applicable federal, state and Air Pollution Control District requirements;
- (2) Are there any special considerations in the affected community that warrant disapproval of the project;
- (3) Are there alternative processes or control technologies that should be considered;
- (4) Are the applicable terms and conditions of the proposed permit enforceable by the Air Pollution Control Officer; and,
- (5) Was proper public notice provided regarding the project?

Written notice of the proposed project and comment period shall be prepared by the Air Pollution Control Officer and shall include notice that the draft report required by Subsection (d)(1)(iii)(B) and the Air Pollution Control Officer's analysis of the project are available for public review at the Air Pollution Control District and at a minimum of one specified public library (to be determined by the Air Pollution Control Officer) near the affected persons. The notice shall be provided to affected persons by the stationary source operator at the same time as the notice required by Subsection (d)(1)(iii)(I) is provided to affected persons.

(2) Total Acute Noncancer Health Risk

The increase in the total acute noncancer health hazard index at every receptor location as a result of the project is equal to or less than one unless the Air Pollution Control Officer, after consulting with the state OEHHA, determines that an alternate total acute noncancer health hazard index is sufficiently health protective. In such case, the increase in total acute noncancer health hazard index shall be limited to the alternative total acute noncancer health hazard index at every receptor location.

(3) Total Chronic Noncancer Health Risk

The increase in the total chronic noncancer health hazard index at every receptor location as a result of the project is equal to or less than one unless the Air Pollution Control Officer, after consulting with the state OEHHA, determines that an alternate total chronic noncancer health hazard index is sufficiently health protective. In such case, the increase in total chronic noncancer health hazard index shall be limited to the alternative total chronic noncancer health hazard index at every receptor location.

(e) **PROCEDURES**

(1) Health risk estimates shall be performed for toxic air contaminants ~~listed in Tables I, II, III as defined herein~~ using corresponding state OEHHA health risk values in effect on the date action on the application(s) is taken. In the event health risk values are added or revised by OEHHA after the application is deemed complete pursuant to Rule 18, the Air Pollution Control Officer shall advise the project applicant in writing as soon as possible thereafter. The project applicant shall make the necessary changes to the health risk estimates to incorporate the new or revised health risk values and submit them to the Air Pollution Control Officer. However, if requested to do so by the project applicant, the Air Pollution Control Officer (in lieu of the project applicant) shall make the necessary changes to the health risk estimates to incorporate the new or revised health risk values.

(2) The Air Pollution Control Officer shall estimate health risk (cancer and non-cancer) and cancer burden in accordance with ~~procedures specified in the CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October, 1993 or specified in any~~ health risk assessment guidelines adopted by the state OEHHA, pursuant to Section 44360 Division 26, Part 6, Chapter ~~6-4~~ of the California Health and Safety Code (~~SB 1731 program~~), ~~that replace all or part of such CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October, 1993~~ and in effect on the date action on the application(s) is taken.

(3) Exposure Periods of Concern

Total chronic noncancer health risk and maximum incremental cancer risk estimates shall be calculated based on the project's or emission unit's emission increase in annual toxic air contaminant potential to emit. Total acute noncancer health risk estimates shall be based on the project's or emission unit's emission increase in toxic air contaminant potential to emit for the exposure period of concern.

(4) Calculation of Emission Increases

Emission increases from a new or relocated project or emission unit shall be calculated as the new project's or emission unit's post project potential to emit. Emission increases from a modified project or emission unit shall be calculated as the project's or emission unit's post project potential to emit minus its pre-project potential to emit.

(5) Calculation of Potential to Emit

Except as provided in (i) and (ii) below, the potential to emit shall be calculated based on the maximum design capacity or other operating conditions which reflect the maximum potential emissions, including fugitive emissions.

(i) Permit Limitations Shall Be Used: If specific limiting conditions contained in an Authority to Construct or Permit to Operate restrict or will restrict emissions to a lower level, these limitations shall be used to calculate the potential to emit.

(ii) Potential to Emit Shall Not Exceed Maximum Potential: If specific conditions limiting a project's or emission unit's pre-project potential to emit are not contained in an Authority to Construct or a Permit to Operate, the pre-project potential to emit shall be limited to the project's or emission unit's actual emissions only to the extent that such emissions do not violate any District, state or federal law, rule, regulation, order or permit condition.

For purposes of this requirement, the Air Pollution Control Officer may allow the pre-project potential to emit to be based on the highest level of actual emissions occurring during a consecutive one-year period within the five-year period preceding the receipt date of the application to the extent that the emission level was not in excess of any District, state or federal law, rule, regulation, order or permit condition.

(6) Calculation of Actual Emissions for Determining Emission Reductions

(i) Actual emissions of an existing emission unit shall be averaged over the most representative two consecutive years within the five years preceding the receipt date of an application, as determined by the Air Pollution Control Officer. Such actual emissions shall not include emissions in excess of any District, state or federal law, rule, regulation, order or permit condition.

(ii) For emission units that have not been operated for a consecutive two-year period, which is representative of actual operations within the five years preceding the receipt date of the application, the calculation of actual emissions shall be based on the average of any two one-year operating periods determined by the Air Pollution Control Officer to be representative within that five-year period. If a representative two-year time period or two one-year time period does not exist, the calculation of actual emissions shall be based on the average of the total operational time period within that five-year period.

(iii) Actual emissions for emission units operated for a period of less than six months shall be based on an average over the longest operating time period determined by the Air Pollution Control Officer to be most representative of actual operations.

(7) When concurrent emission reductions are provided, the resulting reduction in health risk at each evaluated receptor location shall be subtracted from the health risk increase at the same receptor location to provide a net health risk as a result of the project at each such receptor location.

Total chronic noncancer health risk and maximum incremental cancer risk reduction estimates shall be calculated based on the project's or emission unit's annual emission reduction in toxic air contaminants. Total acute noncancer health risk reduction estimates shall be based on the project's or emission unit's emission reduction in toxic air contaminants for the exposure period of concern.

In order for an emission reduction to qualify as a concurrent emission reduction when determining the net acute noncancer health risk as a result of a project or emission unit, the applicant shall demonstrate that there will be a resulting health risk reduction to mitigate emission increases from the project or emission unit for each and every acute time period of concern.

(8) Calculation of Emission Reductions

(i) An actual emission reduction may only be used as a concurrent emission reduction. Actual emissions calculated pursuant to Subsection (e)(6) shall be used for purposes of determining an actual emission reduction in accordance with this Subsection (e)(8). An actual emission reduction must be quantifiable, enforceable and surplus and may be temporary or permanent in duration. A temporary actual emission reduction shall be identified as temporary and shall include a specific date beyond which the reductions are no longer valid.

(A) Actual emission reductions from the shutdown or relocation of an emission unit shall be calculated based on the emission unit's pre-project actual emissions.

(B) Actual emission reductions from a modified project or emission unit shall be calculated as the project's or emission unit's pre-project actual emissions minus the project's or emission unit's post-project potential to emit.

(ii) Adjustment for Determining Actual Emission Reduction: If an emission unit has been permitted and operated for a period of less than two years, the emission unit's actual emissions, for purposes of determining decreases in cancer risk or noncancer chronic risk, shall be calculated as the unit's actual emissions over the actual operating time period times the actual operating time period in days divided by 1460.

(iii) If an emission unit was operated in violation of any District, state or federal law, rule, regulation, order, or permit condition during the period used to determine actual emissions, the actual emissions shall be adjusted to reflect the level of emissions which would have occurred if the emission unit had not been in violation.

(9) When concurrent emission reductions are provided, the project applicant shall apply for and the Air Pollution Control Officer shall approve or deny, as appropriate, an Authority to Construct and a new or modified Permit to Operate with appropriate conditions for the emission unit(s) providing the concurrent emission reductions, or retire a Permit to Operate for the emission unit(s) in the event of a shutdown.

(10) Toxic air contaminant exposure scenarios used to estimate health risk shall be consistent with land use designations at the time the application is deemed complete, except where the project owner has direct control over discretionary uses.

(11) To the extent possible, the Air Pollution Control Officer shall develop screening risk assessment procedures for common equipment and toxic air contaminants to expedite and standardize review for compliance with Section (d). The procedures shall be maintained in writing and available upon request. The Air Pollution Control Officer shall propose additional exemptions to Section (b) that the Air Pollution Control Officer deems appropriate, based on the results of these screening procedures.

Table I**Toxic Air Contaminants For Which Potential Carcinogenic Impacts Must Be Calculated^a**

COMPOUND	CAS #^b	Date Added
Acetaldehyde	75-07-0	6/12/1996
Acetamide	60-35-5	1/11/2001
Acrylamide	79-06-1	6/12/1996
Acrylonitrile	107-13-1	6/12/1996
Allyl chloride	107-05-1	1/11/2001
2-Aminoanthraquinone	117-79-3	1/11/2001
Aniline	62-53-3	1/11/2001
— Aniline hydrochloride	142-04-1	9/19/2023
Arsenic and compounds (inorganic)	7440-38-2, 1015-1016	6/12/1996
— Arsenic acid	7778-39-4	9/19/2023
— Arsenic pentoxide	1303-28-2	9/19/2023
— Arsenic trioxide	1327-53-3	9/19/2023
— Calcium arsenate	7778-44-1	9/19/2023
— Gallium arsenide	1303-00-0	9/19/2023
Asbestos	1332-21-4	6/12/1996
— Actinolite	77536-66-4	9/19/2023
— Amosite	12172-73-5	9/19/2023
— Anthophyllite	77536-67-5	9/19/2023
— Chrysotile	12001-29-5	9/19/2023
— Crocidolite	12001-28-4	9/19/2023
— Tremolite	77536-68-6	9/19/2023
Benzene	71-43-2	6/12/1996
Benzidine (and its salts) as follows:	92-87-5	6/12/1996
— Benzidine based dyes	1020	6/12/1996
— C.I. Direct Blue 218 [PAH Derivative/Related, POM]	28407-37-6	9/19/2023
— 3,3'-Dimethylbenzidine dihydrochloride	612-82-8	9/19/2023
— Direct Black 38	1937-37-7	6/12/1996
— Direct Blue 6	2602-46-2	6/12/1996
— Direct Brown 95 (technical grade)	16071-86-6	6/12/1996
Benzyl chloride	100-44-7	1/11/2001
Beryllium and compounds	7440-41-7, 1021	6/12/1996
— Beryllium sulfate	13510-49-1	9/19/2023
— Beryllium sulfate (tetrahydrate)	7787-56-6	9/19/2023
— Beryllium oxide	1304-56-9	9/19/2023
Bis (2-chloroethyl) ether (dichloroethyl ether)	111-44-4	1/11/2001
Bis (chloromethyl) ether	542-88-1	1/11/2001
Bromate	15541-45-4	9/19/2023
Potassium bromate	7758-01-2	1/11/2001
1-Bromopropane	106-94-5	9/19/2023
1,3-Butadiene	106-99-0	6/12/1996
Cadmium and compounds	7440-43-9, 1045	6/12/1996
— Cadmium chloride	10108-64-2	9/19/2023
— Cadmium succinate	141-00-4	9/19/2023

Table I—continued

Toxic Air Contaminants For Which Potential Carcinogenic Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
Carbon tetrachloride (tetrachloromethane)	56-23-5	6/12/1996
Chlorinated paraffins	108171-26-2	1/11/2001
4-Chloro-o-phenylenediamine	95-83-0	1/11/2001
Chloroform	67-66-3	6/12/1996
Chlorophenols as follows:	N/A	6/12/1996
— Pentachlorophenol	87-86-5	6/12/1996
— 2,4,6-Trichlorophenol	88-06-2	6/12/1996
p-Chloro-o-toluidine	95-69-2	1/11/2001
1-Chloro-4-(trifluoromethyl)benzene {PCBTF}	98-56-6	9/19/2023
Chromium (hexavalent) and compounds including, but not limited to:	18540-29-9	6/12/1996
— Barium chromate	10294-40-3	6/12/1996
— t-Butyl chromate (VI)	1189-85-1	9/19/2023
— Calcium chromate	13765-19-0	6/12/1996
— Lead chromate	7758-97-6	6/12/1996
— Sodium dichromate	10588-01-9	6/12/1996
— Strontium chromate	7789-06-2	6/12/1996
— Chromium trioxide (as chromic acid mist)	1333-82-0	6/12/1996
Cobalt	7440-48-4	2/26/2021
Cobalt compounds, insoluble, including but not limited to:	1216	9/19/2023
— Cobalt carbonate	513-79-1	9/19/2023
— Cobalt carbonyl	10210-68-1	9/19/2023
— Cobalt hydroxide	21041-93-0	9/19/2023
— Cobalt oxalate	814-89-1	9/19/2023
— Cobalt [II] oxide	1307-96-6	9/19/2023
— Cobalt [III] oxide	1308-06-1	9/19/2023
— Cobalt sulfide	1317-42-6	9/19/2023
Cobalt sulfate and other soluble cobalt compounds, including but not limited to:	1217	
— Cobalt acetate (tetrahydrate)	71-48-7	9/19/2023
— Cobalt chloride (hexahydrate)	7646-79-9	9/19/2023
— Cobalt hydrocarbonyl	16842-03-8	9/19/2023
— Cobalt nitrate (hexahydrate)	10141-05-6	9/19/2023
— Cobalt octoate	136-52-7	9/19/2023
— Cobalt sulfate	10124-43-3	9/19/2023
— Cobalt sulfate (heptahydrate)	10026-24-1	9/19/2023
p-Cresidine	120-71-8	1/11/2001
Cupferron	135-20-6	1/11/2001
2,4-Diaminoanisole	615-05-4	1/11/2001
2,4-Diaminotoluene	95-80-7	1/11/2001
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	6/12/1996
p-Dichlorobenzene	106-46-7	6/12/1996
3,3-Dichlorobenzidine	91-94-1	6/12/1996
1,1-Dichloroethane (ethyldene dichloride)	75-34-3	1/11/2001

Table I—continued

Toxic Air Contaminants For Which Potential Carcinogenic Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
Di(2-ethylhexyl)phthalate (DEHP)	117-81-7	6/12/1996
p-Dimethylaminoazobenzene	60-11-7	1/11/2001
2,4-Dinitrotoluene	121-14-2	1/11/2001
— 2,4-Dinitrotoluene, sulfurized	1326-41-6	9/19/2023
1,4-Dioxane (1,4-diethylene dioxide)	123-91-1	6/12/1996
Epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8	6/12/1996
Ethyl benzene	100-41-4	11/14/2007
Ethylene dibromide (1,2-dibromoethane)	106-93-4	6/12/1996
Ethylene dichloride (1,2-dichloroethane)	107-06-2	6/12/1996
Ethylene oxide (1,2-epoxyethane)	75-21-8	6/12/1996
Ethylene thiourea	96-45-7	1/11/2001
Formaldehyde	50-00-0	6/12/1996
Hexachlorobenzene	118-74-1	6/12/1996
Hexachlorocyclohexanes (mixed or technical grade)	608-73-1	6/12/1996
— Alpha-hexachlorocyclohexane	319-84-6	6/12/1996
— Beta-hexachlorocyclohexane	319-85-7	6/12/1996
— Gamma-hexachlorocyclohexane (Lindane)	58-89-9	6/12/1996
Hydrazine	302-01-2	6/12/1996
Lead (inorganic) and compounds including, but not limited to:	7439-92-1, 1128-1130	1/11/2001
— Lead acetate	301-04-2	1/11/2001
— Lead phosphate	7446-27-7	1/11/2001
— Lead subacetate	1335-32-6	1/11/2001
Methyl tertiary-butyl ether	1634-04-4	1/11/2001
4,4'-Methylene bis(2-chloroaniline) (MOCA)	101-14-4	1/11/2001
Methylene chloride (dichloromethane)	75-09-2	6/12/1996
4,4'-Methylene dianiline (and its dichloride)	101-77-9	1/11/2001
Michler's Ketone (4,4'-bis(dimethylamino) benzophenone)	90-94-8	1/11/2001
n-Nitrosodi-n-butylamine	924-16-3	6/12/1996
n-Nitrosodi-n-propylamine	621-64-7	6/12/1996
n-Nitrosodiethylamine	55-18-5	6/12/1996
n-Nitrosodimethylamine	62-75-9	6/12/1996
n-Nitrosodiphenylamine	86-30-6	1/11/2001
n-Nitroso-n-methylethylamine	10595-95-6	6/12/1996
n-Nitrosomorpholine	59-89-2	6/12/1996
n-Nitrosopiperidine	100-75-4	6/12/1996
n-Nitrosopyrrolidine	930-55-2	6/12/1996
Nickel and compounds including, but not limited to:	7440-02-0, 1145	6/12/1996
— Nickel acetate	373-02-4	6/12/1996
— Nickel carbonate	3333-67-3	6/12/1996
— Nickel carbonyl	13463-39-3	6/12/1996
— Nickel chloride	7718-54-9	9/19/2023
— Nickel nitrate {Nickel (II) nitrate}	13138-45-9	9/19/2023
— Nickel hydroxide	12054-48-7	6/12/1996

Table I—continued

Toxic Air Contaminants For Which Potential Carcinogenic Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
— Nickelocene	1271-28-9	6/12/1996
— Nickel oxide	1313-99-1	6/12/1996
— Nickel refinery dust from the pyrometallurgical process	1146	6/12/1996
— Nickel subsulfide	12035-72-2	6/12/1996
— Nickel sulfate	7786-81-4	9/19/2023
p-Nitrosodiphenylamine	156-10-5	6/12/1996
Particulate emissions from diesel-fueled engines	9901	9/15/2000
Perchloroethylene (tetrachloroethylene)	127-18-4	6/12/1996
Polychlorinated biphenyls (PCBs) unspciated mixtures	1336-36-3	6/12/1996
Polychlorinated biphenyls (PCBs) spciated as follows:	N/A	
— 3,3',4,4' Tetrachlorobiphenyl	32598-13-3	8/29/2003
— 3,4,4',5' Tetrachlorobiphenyl	70362-50-4	8/29/2003
— 2,3,3',4,4' Pentachlorobiphenyl	32598-14-4	8/29/2003
— 2,3,4,4',5' Pentachlorobiphenyl	74472-37-0	8/29/2003
— 2,3',4,4',5' Pentachlorobiphenyl	31508-00-6	8/29/2003
— 2,3',4,4',5' Pentachlorobiphenyl	65510-44-3	8/29/2003
— 3,3',4,4',5' Pentachlorobiphenyl	57465-28-8	8/29/2003
— 2,3,3',4,4',5' Hexachlorobiphenyl	38380-08-4	8/29/2003
— 2,3,3',4,4',5' Hexachlorobiphenyl	69782-90-7	8/29/2003
— 2,3',4,4',5,5' Hexachlorobiphenyl	52663-72-6	8/29/2003
— 3,3',4,4',5,5' Hexachlorobiphenyl	32774-16-6	8/29/2003
— 2,3,3',4,4',5,5' Heptachlorobiphenyl	39635-31-9	8/29/2003
Polychlorinated dibenzo-p-dioxins (PCDD) as follows:	1085, 1086	6/12/1996
— 2,3,7,8 Tetrachlorodibenzo-p-dioxin	1746-01-6	6/12/1996
— 1,2,3,7,8 Pentachlorodibenzo-p-dioxin	40321-76-4	6/12/1996
— 1,2,3,4,7,8 Hexachlorodibenzo-p-dioxin	39227-28-6	6/12/1996
— 1,2,3,6,7,8 Hexachlorodibenzo-p-dioxin	57653-85-7	6/12/1996
— 1,2,3,7,8,9 Hexachlorodibenzo-p-dioxin	19408-74-3	6/12/1996
— 1,2,3,4,6,7,8 Heptachlorodibenzo-p-dioxin	35822-46-9	6/12/1996
— 1,2,3,4,6,7,8,9 Octachlorodibenzo-p-dioxin	3268-87-9	6/12/1996
Polychlorinated dibenzofurans (PCDF) as follows:	1080	6/12/1996
— 2,3,7,8 Tetrachlorodibenzofuran	5120-73-19	6/12/1996
— 1,2,3,7,8 Pentachlorodibenzofuran	57117-41-6	6/12/1996
— 2,3,4,7,8 Pentachlorodibenzofuran	57117-31-4	6/12/1996
— 1,2,3,4,7,8 Hexachlorodibenzofuran	70648-26-9	6/12/1996
— 1,2,3,6,7,8 Hexachlorodibenzofuran	57117-44-9	6/12/1996
— 1,2,3,7,8,9 Hexachlorodibenzofuran	72918-21-9	6/12/1996
— 2,3,4,6,7,8 Hexachlorodibenzofuran	60851-34-5	6/12/1996
— 1,2,3,4,6,7,8 Heptachlorodibenzofuran	67562-39-4	6/12/1996
— 1,2,3,4,7,8,9 Heptachlorodibenzofuran	55673-89-7	6/12/1996
— 1,2,3,4,6,7,8,9 Octachlorodibenzofuran	39001-02-0	6/12/1996
Polycyclic aromatic hydrocarbon (PAH) as follows:	1150, 1151	6/12/1996
— Benz[a]anthracene	56-55-3	6/12/1996
— Benzo[a]pyrene	50-32-8	6/12/1996
— Benzo[b]fluoranthene	205-99-2	6/12/1996

Table I—continued

Toxic Air Contaminants For Which Potential Carcinogenic Impacts Must Be Calculated^a

COMPOUND	CAS # ^b	Date Added
— Benzo[j]fluoranthene	205-82-3	6/12/1996
— Benzo[k]fluoranthene	207-08-9	6/12/1996
— Chrysene	218-01-9	6/12/1996
— Dibenz[a,h]acridine	226-36-8	6/12/1996
— Dibenz[a,j]acridine	224-42-0	6/12/1996
— Dibenz[a,h]anthracene	53-70-3	6/12/1996
— Dibenzo[a,e]pyrene	192-65-4	6/12/1996
— Dibenzo[a,h]pyrene	189-64-0	6/12/1996
— Dibenzo[a,i]pyrene	189-55-9	6/12/1996
— Dibenzo[a,l]pyrene	191-30-0	6/12/1996
— 7h-Dibenzo[e,g]carbazole	194-59-2	6/12/1996
— 7,12-Dimethylbenz[a]anthracene	57-97-6	6/12/1996
— 1,6-Dinitropyrene	42397-64-8	6/12/1996
— 1,8-Dinitropyrene	42397-65-9	6/12/1996
— Indeno[1,2,3-c,d]pyrene	193-39-5	6/12/1996
— 3-Methylcholanthrene	56-49-5	6/12/1996
— 5-Methylchrysene	3697-24-3	6/12/1996
— Naphthalene	91-20-3	8/03/2004
— 5-Nitroacenaphthene	602-87-9	6/12/1996
— 6-Nitrochrysene	7496-02-8	6/12/1996
— 2-Nitrofluorene	607-57-8	6/12/1996
— 1-Nitropyrene	5522-43-0	6/12/1996
— 4-Nitropyrene	57835-92-4	6/12/1996
1,3-Propane sultone	1120-71-4	1/11/2001
Propylene oxide	75-56-9	6/12/1996
Tertiary butyl acetate (TBAc)	540-88-5	5/29/2019
1,1,2-Tetrachloroethane	79-34-5	1/11/2001
Thioacetamide	62-55-5	6/12/1996
Toluene diisocyanates including, but not limited to:	26471-62-5	1/11/2001
— Toluene 2,4-diisocyanate	584-84-9	1/11/2001
— Toluene 2,6-diisocyanate	91-08-7	1/11/2001
1,1,2-Trichloroethane (vinyl trichloride)	79-00-5	1/11/2001
Trichlorethylene	79-01-6	6/12/1996
Urethane (ethyl carbamate)	51-79-6	6/12/1996
Vinyl chloride (chloroethylene)	75-01-4	6/12/1996

- a. Unit Risk Values shall be obtained from the CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October 1993 or any health risk assessment guidelines adopted by the state Office of Environmental Health Hazard Assessment (OEHHHA), pursuant to Division 26, Part 6, Chapter 6 of the California Health and Safety Code (SB 1731 program), that replace all or part of such CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October 1993. Table I was last revised pursuant to Rule 1200(e)(23) and Rule 1210(e)(23) on September 19, 2023.
- b. Chemical Abstract Service Number (CAS): For chemical groupings and mixtures where a CAS number is not applicable, the 4 digit code used in the Air Toxics “Hot Spots” Emission Inventory Criteria and Guidelines (EICG) Report is listed. For information on the origin and use of the 4 digit code, see the EICG report.

Table II**Toxic Air Contaminants For Which Potential Chronic Noncancer Impacts Must Be Calculated^a**

COMPOUND	CAS #^b	Date Added
Acetaldehyde	75-07-0	6/12/1996
Acrolein	107-02-8	1/11/2001
Acrylonitrile	107-13-1	6/12/1996
Ammonia	7664-41-7	6/12/1996
Arsenic (inorganic) and compounds including, but not limited to:	7440-38-2, 1015-1016	6/12/1996
— Arsenic acid	7778-39-4	9/19/2023
— Arsenic pentoxide	1303-28-2	9/19/2023
— Arsenic trioxide	1327-53-3	9/19/2023
— Arsine	7784-42-1	6/12/1996
— Calcium arsenate	7778-44-1	9/19/2023
— Gallium arsenide	1303-00-0	9/19/2023
Benzene	71-43-2	6/12/1996
Beryllium and compounds	7440-41-7, 1021	6/12/1996
— Beryllium sulfate	13510-49-1	9/19/2023
— Beryllium sulfate (tetrahydrate)	7787-56-6	9/19/2023
— Beryllium oxide	1304-56-9	9/19/2023
1-Bromopropane	106-94-5	9/19/2023
1,3-Butadiene	106-99-0	1/11/2001
Cadmium and compounds	7440-43-9, 1045	6/12/1996
— Cadmium chloride	10108-64-2	9/19/2023
— Cadmium succinate	141-00-4	9/19/2023
Caprolactam	105-60-2	6/16/2014
Carbon disulfide	75-15-0	1/11/2001
Carbon tetrachloride (tetrachloromethane)	56-23-5	6/12/1996
Carbonyl sulfide	463-58-1	7/11/2017
Chlorine	7782-50-5	6/12/1996
Chlorine dioxide	10049-04-4	1/11/2001
Chlorobenzene	108-90-7	6/12/1996
Chloroform	67-66-3	6/12/1996
Chloropicrin	76-06-2	6/12/1996
Chromium (III)	16065-83-1	9/19/2023
Chromium (hexavalent) and compounds including, but not limited to:	18540-29-9	6/12/1996
— Barium chromate	10294-40-3	6/12/1996
— t-Butyl chromate (VI)	1189-85-1	9/19/2023
— Calcium chromate	13765-19-0	6/12/1996
— Lead chromate	7758-97-6	6/12/1996
— Sodium dichromate	10588-01-9	6/12/1996
— Strontium chromate	7789-06-2	6/12/1996
— Chromium trioxide (as chromic acid mist)	1333-82-0	3/12/2001
Cresols (mixtures of)	1319-77-3	6/12/1996
— m-cresol	108-39-4	6/12/1996
— o-cresol	95-48-7	6/12/1996
— p-cresol	106-44-5	6/12/1996

Table II—continued

Toxic Air Contaminants For Which Potential Chronic Noncancer Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
Cyanide (inorganic)	57-12-5	1/11/2001
— Calcium cyanide	592-01-8	9/19/2023
— Hydrogen cyanide (hydrocyanic acid)	74-90-8, 191234-22-7, 341972-31-4	6/12/1996
— Potassium cyanide	151-50-8	9/19/2023
— Sodium cyanide	143-33-9	9/19/2023
p-Dichlorobenzene (1,4-dichlorobenzene)	106-46-7	6/12/1996
Diethanolamine	111-42-2	1/14/2002
n,n-Dimethyl formamide	68-12-2	1/11/2001
1,4-Dioxane	123-91-1	6/12/1996
Epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8	6/12/1996
1,2-Epoxybutane	106-88-7	1/11/2001
Ethyl benzene	100-41-4	1/11/2001
Ethyl chloride	75-00-3	6/12/1996
Ethylene dibromide (1,2-dibromoethane)	106-93-4	6/12/1996
Ethylene dichloride (1,2-dichloroethane)	107-06-2	6/12/1996
Ethylene glycol	107-21-1	6/12/1996
Ethylene oxide	75-21-8	6/12/1996
Fluorides and compounds	1101	1/11/2001
— Hydrogen fluoride (hydrofluoric acid)	7664-39-3	6/12/1996
— Modified hydrogen fluoride {MHF}	1141	9/19/2023
— Selenium hexafluoride	7783-79-1	9/19/2023
— Sodium aluminum fluoride	15096-52-3	9/19/2023
— Sodium fluoride	7681-49-4	9/19/2023
Formaldehyde	50-00-0	6/12/1996
Glutaraldehyde	111-30-8	6/12/1996
Glycol Ethers as follows:	N/A	6/12/1996
— Ethylene glycol butyl ether—EGBE	111-76-2	7/19/2018
— Ethylene glycol ethyl ether—EGEE	110-80-5	6/12/1996
— Ethylene glycol ethyl ether acetate—EGEEA	111-15-9	6/12/1996
— Ethylene glycol methyl ether—EGME	109-86-4	6/12/1996
— Ethylene glycol methyl ether acetate—EGMEA	110-49-6	6/12/1996
1,6-Hexamethylene diisocyanate (monomer)	822-06-0	9/29/2020
n-Hexane	110-54-3	1/11/2001
Hydrazine	302-01-2	6/12/1996
Hydrochloric acid	7647-01-0	6/12/1996
Hydrogen sulfide	7783-06-4	6/12/1996
Isophorone	78-59-1	1/14/2002
Isopropyl alcohol (isopropanol)	67-63-0	1/11/2001
Maleic anhydride	108-31-6	6/12/1996
Manganese and compounds	7439-96-5, 1132	6/12/1996
— Manganese cyclopentadienyl tricarbonyl	12079-65-1	9/19/2023
— 2-Methylcyclopentadienyl manganese tricarbonyl	12108-13-3	9/19/2023
Mercury (inorganic) and compounds including, but not limited to:	7439-97-6, 1131	6/12/1996
— Mercuric chloride	7487-94-7	6/12/1996

Table II—continued

Toxic Air Contaminants For Which Potential Chronic Noncancer Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
Methanol	67-56-1	6/12/1996
Methyl bromide (bromomethane)	74-83-9	6/12/1996
Methyl tert-butyl ether	1634-04-4	1/11/2001
Methyl chloroform (1,1,1-TCA)	71-55-6	6/12/1996
Methyl isocyanate	624-83-9	6/12/1996
Methylene chloride (dichloromethane)	75-09-2	6/12/1996
4,4'-Methylene dianiline (and its dichloride)	101-77-9	6/12/1996
Methylene diphenyl diisocyanate (polymeric)	101-68-8	6/12/1996
Nickel and compounds including, but not limited to:	7440-02-0	6/12/1996
Nickel acetate	373-02-4	6/12/1996
Nickel carbonate	3333-67-3	6/12/1996
Nickel carbonyl	13463-39-3	6/12/1996
Nickel chloride	7718-54-9	9/19/2023
Nickel hydroxide	12054-48-7	6/12/1996
Nickel nitrate {Nickel (II) nitrate}	13138-45-9	9/19/2023
Nickelocene	1271-28-9	6/12/1996
Nickel oxide	1313-99-1	6/12/1996
Nickel refinery dust from the pyrometallurgical process	1146	6/12/1996
Nickel subsulfide	12035-72-2	6/12/1996
Nickel sulfate	7786-81-4	9/19/2023
Particulate emissions from diesel-fueled engines	9901	9/15/2000
Perchloroethylene (tetrachloroethylene)	127-18-4	6/12/1996
Phenol	108-95-2	6/12/1996
Phosphine	7803-51-2	6/12/1996
Phosphoric acid	7664-38-2	6/12/1996
Phthalic anhydride	85-44-9	6/12/1996
Polychlorinated biphenyls (PCBs) speciated as follows:	N/A	
— 3,3',4,4'-Tetrachlorobiphenyl	32598-13-3	8/29/2003
— 3,4,4',5-Tetrachlorobiphenyl	70362-50-4	8/29/2003
— 2,3,3',4,4'-Pentachlorobiphenyl	32598-14-4	8/29/2003
— 2,3,4,4',5-Pentachlorobiphenyl	74472-37-0	8/29/2003
— 2,3',4,4',5-Pentachlorobiphenyl	31508-00-6	8/29/2003
— 2,3',4,4',5'-Pentachlorobiphenyl	65510-44-3	8/29/2003
— 3,3',4,4',5-Pentachlorobiphenyl	57465-28-8	8/29/2003
— 2,3,3',4,4',5-Hexachlorobiphenyl	38380-08-4	8/29/2003
— 2,3,3',4,4',5'-Hexachlorobiphenyl	69782-90-7	8/29/2003
— 2,3',4,4',5,5'-Hexachlorobiphenyl	52663-72-6	8/29/2003
— 3,3',4,4',5,5'-Hexachlorobiphenyl	32774-16-6	8/29/2003
— 2,3,3',4,4',5,5'-Heptachlorobiphenyl	39635-31-9	8/29/2003
Polychlorinated dibenzo-p-dioxins (PCDD) as follows:	1085, 1086	6/12/1996
— 2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	6/12/1996
— 1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	6/12/1996
— 1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	6/12/1996
— 1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	6/12/1996
— 1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	6/12/1996

Table II—continued

Toxic Air Contaminants For Which Potential Chronic Noncancer Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
— 1,2,3,4,6,7,8 Heptachlorodibenzo p dioxin	35822 46 9	6/12/1996
— 1,2,3,4,6,7,8,9 Octachlorodibenzo p dioxin	3268 87 9	6/12/1996
Polychlorinated dibenzofurans (PCDF) as follows:	1080	6/12/1996
— 2,3,7,8 Tetrachlorodibenzofuran	5120 73 19	6/12/1996
— 1,2,3,7,8 Pentachlorodibenzofuran	57117 41 6	6/12/1996
— 2,3,4,7,8 Pentachlorodibenzofuran	57117 31 4	6/12/1996
— 1,2,3,4,7,8 Hexachlorodibenzofuran	70648 26 9	6/12/1996
— 1,2,3,6,7,8 Hexachlorodibenzofuran	57117 44 9	6/12/1996
— 1,2,3,7,8,9 Hexachlorodibenzofuran	72918 21 9	6/12/1996
— 2,3,4,6,7,8 Hexachlorodibenzofuran	60851 34 5	6/12/1996
— 1,2,3,4,6,7,8 Heptachlorodibenzofuran	67562 39 4	6/12/1996
— 1,2,3,4,7,8,9 Heptachlorodibenzofuran	55673 89 7	6/12/1996
— 1,2,3,4,6,7,8,9 Octachlorodibenzofuran	39001 02 0	6/12/1996
Polycyclic aromatic hydrocarbon (PAH) as follows:	1150, 1151	6/12/1996
— Naphthalene	91 20 3	6/12/1996
Polymeric (oligo) hexamethylene 1,6-diisocyanate (HDI)	1221	9/19/2023
— Biuret	108 19 0	9/19/2023
— Diisocyanurate	1226	9/19/2023
— HDI prepolymer	1227	9/19/2023
— Isocyanurate	1228	9/19/2023
— Uretidione (HDI)	23501 81 7	9/19/2023
Propylene (propene)	115 07 1	1/11/2001
Propylene glycol monomethyl ether	107 98 2	6/12/1996
Propylene oxide	75 56 9	6/12/1996
Selenium including, but not limited to:	7782 49 2	6/12/1996
— Selenium sulfide	7446 34 6	6/12/1996
Silica (crystalline, respirable)	1175	10/11/2013
— Silica, crystalline (respirable), in the form of cristobalite	14464 46 1	9/19/2023
— Silica, crystalline (respirable), in the form of quartz	14808 60 7	9/19/2023
Styrene	100 42 5	6/12/1996
Sulfuric acid	7664 93 9	7/11/2017
— Sulfur trioxide	7446 71 9	7/11/2017
Toluene	108 88 3	6/12/1996
Toluene diisocyanates	26471 62 5	6/12/1996
— Toluene 2,4 diisocyanate	584 84 9	6/12/1996
— Toluene 2,6 diisocyanate	91 08 7	6/12/1996
Trichloroethylene	79 01 6	6/12/1996
Triethylamine	121 44 8	1/11/2001
Trimethylbenzenes	25551 13 7	6/5/2024
— 1,3,5 Trimethylbenzene	108 67 8	6/5/2024
— 1,2,4 Trimethylbenzene	95 63 6	6/5/2024
— 1,2,3 Trimethylbenzene	526 73 8	6/5/2024
Vinyl acetate	108 05 4	1/11/2001
Vinylidene chloride	75 35 4	6/12/1996

Table II—continued

Toxic Air Contaminants For Which Potential Chronic Noncancer Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
Xylenes (mixed isomers)	1330-20-7	6/12/1996
— m Xylene	108-38-3	6/12/1996
— o Xylene	95-47-6	6/12/1996
— p Xylene	106-42-3	6/12/1996

- a. Reference Exposure Levels (RELs) and toxic endpoint information shall be obtained from the CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October 1993 or any health risk assessment guidelines adopted by the state Office of Environmental Health Hazard Assessment (OEHHA), pursuant to Division 26, Part 6, Chapter 6 of the California Health and Safety Code (SB 1731 program), that replace all or part of such CAPCOA Air Toxics Hot Spots Program Risk Assessment Guidelines, October 1993. Table II was last revised pursuant to Rule 1200(c)(23) and Rule 1210(c)(23) on June 5, 2024.
- b. Chemical Abstract Service Number (CAS): For chemical groupings and mixtures where a CAS number is not applicable, the 4 digit code used in the Air Toxics “Hot Spots” Emission Inventory Criteria and Guidelines (EICG) Report is listed. For information on the origin and use of the 4 digit code, see the EICG report.

Table III**Toxic Air Contaminants For Which Potential Acute Noncancer Impacts Must Be Calculated^a**

COMPOUND	CAS #^b	Date Added
Acetaldehyde	75-07-0	1/28/2009
Aerolein	107-02-8	1/11/2001
Acrylic acid	79-10-7	1/11/2001
Ammonia	7664-41-7	6/12/1996
Arsenic (inorganic) and compounds including, but not limited to:	7440-38-2, 1015, 1016	6/12/1996
Arsenic acid	7778-39-4	9/19/2023
Arsenic pentoxide	1303-28-2	9/19/2023
Arsenic trioxide	1327-53-3	9/19/2023
Arsine	7784-42-1	6/12/1996
Calcium arsenate	7778-44-1	9/19/2023
Gallium arsenide	1303-00-0	9/19/2023
Benzene	71-43-2	6/12/1996
Benzyl chloride	100-44-7	6/12/1996
1-Bromopropane	106-94-5	9/19/2023
1,3-Butadiene	106-99-0	10/11/2013
Caprolactam	105-60-2	6/16/2014
Carbon disulfide	75-15-0	1/11/2001
Carbon monoxide	630-08-0	1/11/2001
Carbon tetrachloride (tetrachloromethane)	56-23-5	6/12/1996
Carbonyl sulfide	463-58-1	7/11/2017
Chlorine	7782-50-5	6/12/1996
Chloroform	67-66-3	6/12/1996
Chloropicrin	76-06-2	1/11/2001
Chromium (III)	16065-83-1	9/19/2023
Copper and compounds	7440-50-8	6/12/1996
Cyanide (inorganic)	57-12-5, 1073	6/12/1996
Calcium cyanide	592-01-8	9/19/2023
Hydrogen cyanide (hydrocyanic acid)	74-90-8, 191234-22-7, 341972-31-4	6/12/1996
Potassium cyanide	151-50-8	9/19/2023
Sodium cyanide	143-33-9	9/19/2023
1,4-Dioxane (1,4-diethylene dioxide)	123-91-1	6/12/1996
Epichlorohydrin (1-chloro-2,3-epoxypropane)	106-89-8	1/11/2001
Fluorides and Compounds	1101	6/12/1996
Hydrogen fluoride (hydrofluoric acid)	7664-39-3	6/12/1996
Modified hydrogen fluoride (MHF)	1141	9/19/2023
Selenium hexafluoride	7783-79-1	9/19/2023
Formaldehyde	50-00-0	6/12/1996
Glycol ethers as follows:	N/A	6/12/1996
Ethylene glycol butyl ether – EGBE	111-76-2	6/12/1996
Ethylene glycol ethyl ether – EGEE	110-80-5	6/12/1996
Ethylene glycol ethyl ether acetate – EGEEA	111-15-9	6/12/1996
Ethylene glycol methyl ether – EGME	109-86-4	6/12/1996

Table III—continued

Toxic Air Contaminants For Which Potential Acute Noncancer Impacts Must Be Calculated^a

COMPOUND	CAS #^b	Date Added
1,6-Hexamethylene diisocyanate (monomer)	822-06-0	9/29/2020
Hydrochloric acid (hydrogen chloride)	7647-01-0	6/12/1996
Hydrogen selenide	7783-07-5	6/12/1996
Hydrogen sulfide	7783-06-4	6/12/1996
Isopropyl alcohol (isopropanol)	67-63-0	1/11/2001
Mercury (inorganic) and compounds including, but not limited to:	7439-97-6, 1133	6/12/1996
Mercuric chloride	7487-94-7	6/12/1996
Methanol	67-56-1	1/11/2001
Methyl bromide (bromomethane)	74-83-9	6/12/1996
Methyl chloroform (1,1,1-trichloroethane)	71-55-6	6/12/1996
Methyl ethyl ketone (2-butanone)	78-93-3	1/11/2001
Methylene chloride (dichloromethane)	75-09-2	6/12/1996
Methylene diphenyl diisocyanate (polymeric)	101-68-8	6/14/2016
Nickel and compounds including, but not limited to:	7440-02-0, 1145	6/12/1996
Nickel acetate	373-02-4	6/12/1996
Nickel carbonate	3333-67-3	6/12/1996
Nickel carbonyl	13463-39-3	6/12/1996
Nickel chloride	7718-54-9	9/19/2023
Nickel nitrate {Nickel (II) nitrate}	13138-45-9	9/19/2023
Nickel hydroxide	12054-48-7	6/12/1996
Nickeloene	1271-28-9	6/12/1996
Nickel oxide	1313-99-1	6/12/1996
Nickel refinery dust from the pyrometallurgical process	1146	6/12/1996
Nickel subsulfide	12035-72-2	6/12/1996
Nickel sulfate	7786-81-4	9/19/2023
Nitric acid	7697-37-2	1/11/2001
Nitrogen dioxide	10102-44-0	6/12/1996
Ozone	10028-15-6	6/12/1996
Perechloroethylene (tetrachloroethylene)	127-18-4	6/12/1996
Phenol	108-95-2	1/11/2001
Phosgene	75-44-5	6/12/1996
Polymeric (oligo) hexamethylene 1,6-diisocyanate (HDI)	1221	9/19/2023
— Biuret	108-19-0	9/19/2023
— Diisocyanurate	1226	9/19/2023
— HDI prepolymer	1227	9/19/2023
— Isocyanurate	1228	9/19/2023
— Uretidione (HDI)	23501-81-7	9/19/2023
Propylene oxide	75-56-9	6/12/1996
Sodium hydroxide	1310-73-2	6/12/1996
Styrene	100-42-5	1/11/2001
Sulfates	9960	6/12/1996

Table III—continued

Toxic Air Contaminants For Which Potential Acute Noncancer Impacts Must Be Calculated^a

Sulfur dioxide	7446-09-5	6/12/1996
Sulfuric acid	7664-93-9	6/12/1996
Sulfur trioxide	7446-71-9	6/12/1996
Oleum	8014-95-7	6/12/1996
Toluene	108-88-3	1/11/2001
Toluene diisocyanates	26471-62-5	6/14/2016
Toluene 2,4 diisocyanate	584-84-9	6/14/2016
Toluene 2,6 diisocyanate	91-08-7	6/14/2016
Triethylamine	121-44-8	1/11/2001
Trimethylbenzenes	25551-13-7	6/5/2024
— 1,3,5 Trimethylbenzene	108-67-8	6/5/2024
— 1,2,4 Trimethylbenzene	95-63-6	6/5/2024
— 1,2,3 Trimethylbenzene	526-73-8	6/5/2024
Vanadium (fume or dust)	7440-62-2	1/11/2001
Vanadium pentoxide	1314-62-1	1/11/2001
Vinyl chloride (chloroethylene)	75-01-4	1/11/2001
Xylenes (mixed isomers)	1330-20-7	6/12/1996
m-Xylene	108-38-3	6/12/1996
o-Xylene	95-47-6	6/12/1996
p-Xylene	106-42-3	6/12/1996

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- b. Chemical Abstract Service Number (CAS): For chemical groupings and mixtures where a CAS number is not applicable, the 4 digit code used in the Air Toxics “Hot Spots” Emission Inventory Criteria and Guidelines (EICG) Report is listed. For information on the origin and use of the 4 digit code, see the EICG report.