

PRELIMINARY DRAFT PROPOSAL - FOR PUBLIC REVIEW

For April 2020 Workshop Discussion
of Proposed Amendments to the AB2588 EICG Regulation

Appendix C Samples

Technical “Look-up” Guidance
for Chemicals Expected to be Associated
with Particular Types of Processes and/or Industry Sectors

Appendix C-I Provides technical guidance for air toxic chemicals expected to be associated with particular types of overarching processes (e.g., combustion, solvent use) that occur across all types of facilities.

Appendix C-II Provides technical guidance for air toxic chemicals expected to be associated with particular types of industry sectors (e.g., similar to the structure of Standard Industrial Classification code system).

Please see sample lines for Appendix C on the next several pages.

Sample 1. Table C-II New "Chemical Reagents & Intermediates" Row

Industry/Emitting Process			Type(s) of Emissions/Emitting Process Points	
Chemical Mfg	Chemical Reagents & Intermediates			<p><u>Allyl chloride</u>, <u>Arsine</u>, <u>Benzidine and its salts</u>, <u>Benzotrichloride</u>, <u>Bromine pentafluoride</u>, <u>1-Bromo-3-chloropropane</u>, <u>1,3-Butadiene</u>, <u>Carbon tetrachloride</u>, <u>Carbonyl sulfide</u>, <u>p-Chloroaniline</u>, <u>Chlorobenzene</u>, <u>Cyanoacetic acid</u>, <u>1,4-Dichlorobenzene</u>, <u>2,4-Dichloro-1-nitrobenzene</u>, <u>2,5-Dichlorophenol</u>, <u>Diphenyl thiourea</u>, <u>N-Ethylaniline</u>, <u>o-Ethylaniline</u>, <u>Ethylene sulfide</u>, <u>Hydrogen bromide</u>, <u>Isobutyl nitrite</u>, <u>Methylhydrazine sulfate</u>, <u>4-Nitrochlorobenzene</u>, <u>PCBTF</u>, <u>Potassium bromate</u>, <u>1,2,3,4-Tetrachlorobenzene</u>, <u>1,2,4,5-Tetrachlorobenzene</u>, <u>trans-1,4-Dichlorobutene</u></p>

Sample 2. Table C-I Solvent Use (excerpt)

Device/Process			Types of Emissions	
SOLVENT USE	Miscellaneous Use			<p>Acetaldehyde, Acrolein, Benzene, Carbon tetrachloride, CFC-113, Chlorobenzene, Chloroform, Cresols, Dimethyl sulfate, Dioxane, EDC, <u>Ethylene glycol monohexyl ether</u>, <u>Hydrogen bromide</u>, Mercury, Methanol, Methylene chloride, Nitrobenzene, <u>PCBTF</u>, Perc, <u>t-Butyl acetate</u>, 1,1,1-TCA, <u>1,1,1,2-Tetrachloroethane</u>, Toluene, TCE, Xylenes, Any other listed chlorinated solvents</p>
SOLVENT USE	Degreasing Operations		Gaseous and aerosol organic compounds including but not limited to:	<p>Benzene, Carbon tetrachloride, Chlorinated fluorocarbon, Chlorobenzene, 1,4-Dioxane, Freons, Methylene chloride, <u>PCBTF</u>, Perc, <u>t-Butyl acetate</u>, 1,1,1-TCA, Toluene, TCE, Any other listed substances</p>
SOLVENT USE	Degreasing Operations	Cleaning & Drying		Chlorinated fluorocarbons
SOLVENT USE	Degreasing Operations	Metal D'grs		<p>1,4-Dioxane, Methylene chloride, <u>PCBTF</u>, <u>t-Butyl acetate</u>, 1,1,1-TCA, TCE</p>

Sample 3. Table C-I Pesticide Use

Device/Process			Types of Emissions	
OTHER PROCESSES	<p>Pesticide Use -- For facilities that are subject to Hot Spots applicability provisions, reporting is required except during the time it is acting as a pesticide at an operation which is not a facility subject to the Hot Spots program.</p>			<p>Acrolein, Aldicarb, Allyl isothiocyanate, Amitraz, Arsenic, p-Benzoquinone dioxime, Bifenthrin, Bis(tributyltin) oxide, Bromine, Bromoxynil octanoate, Carbaryl, Carbazole, Carbon tetrachloride, p-Chloroaniline, Dibromoethane, 1,4-Dichlorobenzene, Di-n-propyl isocinchomeronate, Dioxins, Diquat dibromide (and mixtures), Disodium cyanodithioimidocarbonate, Diuron, Endosulfan, Endrin, Ethoprop, Ethyl dipropylthiocarbamate (EPTC), Ethyl parathion, EDB, EDC, Fenamiphos, Glyphosate, Imazalil, Lead, Methyl bromide, Nickel titanate, Propanil, Sulfuryl fluoride, Zinc oxide</p>

- While quite a few pesticide substances meet the criteria to be added to Appendix A, we will add a footnote in both Appendix A and Appendix C (as shown in red above), that clarifies that reporting will be required when a facility is subject to the AB2588 program and during the times when the substance is not acting in a pesticidal use. For example, this could be during venting of the waste gas after commodity fumigation at a facility subject to AB2588 applicability conditions.

Sample 4. Table C-II Furniture & Fixture Manufacturing (excerpt)

Industry/Emitting Process			Type(s) of Emissions/Emitting Process Points	
Furniture & Fixture Mfg				<u>Di-n-propyl isocinchomeronate</u> , <u>Flame retardants</u> , Methylene chloride, Perc, <u>Styrene</u> , TCE
Furniture & Fixture Mfg	Miscellaneous			Methylene chloride, Phthalic anhydride, Toluene, TCE
Furniture & Fixture Mfg	Drapery Hardware and Blinds & Shades			Benzene, 1,1,1-TCA
Furniture & Fixture Mfg	Household Furniture			
Furniture & Fixture Mfg	Household Furniture	Mattresses, Foundations, and Convertible Beds		<u>Flame retardants</u>
Furniture & Fixture Mfg	Household Furniture	Metal & Other Than Wood		Cresol, Toluene, TCE, Xylenes
Furniture & Fixture Mfg	Household Furniture	Wood, Upholstered		Cadmium, Copper, <u>Flame retardants</u> , Lead, <u>Styrene</u> , Toluene
Furniture & Fixture Mfg	Household Furniture	Wood, Except Upholstered		Ammonia, <u>Bis(tributyltin) oxide</u> , Methylene chloride, Naphthalene, Styrene, 1,1,1-TCA, Toluene, TCE, Xylenes
Furniture & Fixture Mfg	Household Furniture	Wood, TV & Radio Cabinets		<u>Bis(tributyltin) oxide</u> , Toluene
Furniture & Fixture Mfg	Office Furniture			
Furniture & Fixture Mfg	Office Furniture	Other Than Wood		Ammonia, Formaldehyde, Methylene chloride, Perc, Styrene, 1,1,1-TCA, Toluene, TCE, Xylenes, Zinc oxide
Furniture & Fixture Mfg	Office Furniture	Wood		<u>Bis(tributyltin) oxide</u> , Formaldehyde, Methylene chloride, Naphthalene, 1,1,1-TCA, Toluene, Toluene diisocyanates, TCE, Xylenes
Furniture & Fixture Mfg	Partitions & Fixtures			
Furniture & Fixture Mfg	Partitions & Fixtures	Other Than Wood		Methylene chloride, Perc, 1,1,1-TCA, Toluene, TCE
Furniture & Fixture Mfg	Partitions & Fixtures	Wood		Ammonia, <u>Bis(tributyltin) oxide</u> , Toluene, Toluene diisocyanates, TCE

Sample 5. Table C-II Chemical Manufacturing (excerpts)

Industry/Emitting Process			Type(s) of Emissions/Emitting Process Points	
Chemical Mfg	Solvents Mfg			Dioxane, Ethylene glycol monoethyl ether , Glycol ethers, Methanol, t-Butyl acetate , 1,1,1,2-Tetrachloroethane
Chemical Mfg	Soap, Cleaners, & Toilet Goods			Allyl isovalerate , Ammonia, Bis(tributyltin) oxide , Chlorine, 1-Dodecanethiol , Hydrogen chloride, Isobutyl Methacrylate , Potassium bromate , 5-tert-Butyl-2,4,6-trinitro-m-xylene
Chemical Mfg	Soap & Detergent Mfg			Bis(tributyltin) oxide , 1-Dodecanethiol , 5-tert-Butyl-2,4,6-trinitro-m-xylene
Chemical Mfg	Indust Inorg Chem Mfg	Miscellaneous		Acetaldehyde, Acrolein, Acrylonitrile, Allyl chloride, Ammonia, Arsenic, Asbestos, Benzene, Benzidine, Benzidine and its salts , Benzyl chloride, Beryllium sulfate , Beryllium sulfate (tetrahydrate) , Bromine , 1,3-Butadiene, Cadmium, Carbon tetrachloride, CFC-113, Chlorine, Chlorobenzene, Chloroform, Chromium, Copper, 1,4-Dichlorobenzene, Epichlorohydrin, EDB, EDC, ETO, Formaldehyde, Gasoline vapors, Hexachlorobenzene, Hexachloropentadiene, Hydrogen chloride, Hydrogen sulfide, Lead, Maleic anhydride, Manganese, Mercury, Methyl isocyanate, Methyl methacrylate, Methylene chloride , Naphthalene, Nickel, Nitrobenzene, Nitrosomorpholine, Perc, Phenol, Phosgene, Phosphorus, Phthalic anhydride, PCBs, Propylene oxide, Radionuclides, Styrene, 1,1,1-TCA, 1,1,1,2-Tetrachloroethane , Toluene, Toluene diisocyanates, TCE, Vinyl chloride, Vinylidene chloride, Xylenes, Zinc, Zinc oxide
Chemical Mfg	Indust Inorg Chem Mfg	Alkalies & Chlorine		Ammonia, Arsenic, Asbestos, Benzene, 1,3-Butadiene, Carbon tetrachloride, Chlorine, Chlorobenzene, Chloroform, Formaldehyde, Hydrogen chloride, Mercury, Phosgene, 1,2,4,5-Tetrachlorobenzene , 1,1,1,2-Tetrachloroethane , Toluene, TCE, Vinyl chloride, Vinylidene chloride
Chemical Mfg	Indust Inorg Chem Mfg	Industrial Gases		Arsenic, Beryllium, Carbon tetrachloride, ETO, Hydrogen chloride, Mercury
Chemical Mfg	Indust Inorg Chem Mfg	Pigments, Inorgan		Ammonia, Arsenic, Bromine , Cadmium, p-Chloroaniline , Chloroform, Chromium, Copper, Dimethyl sulfate, 1,4-Dioxane, Hydrazine, Hydrogen chloride, Lead, Zinc, Zinc oxide
Chemical Mfg	Inks			Bromine , Catechol , p-Chloroaniline , PCBTE , t-Butyl acetate
Chemical Mfg	Inks	Miscellaneous		Dioxane, PCBTF , t-Butyl acetate , Toluene
Chemical Mfg	Inks	Printing		Ammonia, Aniline hydrochloride , Arsenic, Benzene, Cadmium, Copper, Formaldehyde, Isocyanates , Lead, PCBTE , Perc, Toluene, Vinyl chloride, Xylenes, Zinc

