

Nebraska Department of Water, Energy, and Environment

The National Emission Standards for Hazardous Air Pollutants (NESHAP) and New Source Performance Standards (NSPS) notebooks are to be used as an assistance tool to help comply with state and federal regulations. The Notebooks are not inclusive and are not meant to serve as a substitute for compliance with all applicable regulations. If you have corrections, comments, or questions regarding the notebooks, NSPS, NESHAP or permitting, please contact us at DWEE.AirQuality@nebraska.gov or 402-471-2186.

Air Toxics Notebook

Petroleum Refineries

eCFR 40 CFR Part 63 Subpart CC

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Amendment Dates	04/04/2024 05/25/2001 11/19/2020 08/18/1998 02/04/2020 06/09/1998 11/26/2018 02/21/1997 07/13/2016 06/28/1996 12/01/2015 06/12/1996 06/20/2013 02/23/1996 06/30/2010 12/01/2015 10/28/2009 09/27/1995 10/28/2008 08/18/1995 06/23/2003																								
Am I Subject to this subpart?	I. This subpart applies to: (A) Petroleum refining process units (PRPU) located at Major Sources of HAPs* that emit or have equipment containing or contacting at least one of the following HAPs: <table> <thead> <tr> <th>Chemical Name</th><th>CAS No.</th></tr> </thead> <tbody> <tr> <td>Benzene</td><td>71432</td></tr> <tr> <td>Biphenyl</td><td>92524</td></tr> <tr> <td>Butadiene (1,3)</td><td>106990</td></tr> <tr> <td>Carbon disulfide</td><td>75150</td></tr> <tr> <td>Carbonyl sulfide</td><td>463581</td></tr> <tr> <td>Cresol (m-, o-, p-, and mixed isomers)</td><td>108394, 95487, 106445, & 1319773</td></tr> <tr> <td>Cumene</td><td>98828</td></tr> <tr> <td>Dibromoethane (1,2) (ethylene dibromide)</td><td>106934</td></tr> <tr> <td>Dichloroethane (1,2)</td><td>107062</td></tr> <tr> <td>Diethanolamine</td><td>111422</td></tr> <tr> <td>Ethylbenzene</td><td>100414</td></tr> </tbody> </table>	Chemical Name	CAS No.	Benzene	71432	Biphenyl	92524	Butadiene (1,3)	106990	Carbon disulfide	75150	Carbonyl sulfide	463581	Cresol (m-, o-, p-, and mixed isomers)	108394, 95487, 106445, & 1319773	Cumene	98828	Dibromoethane (1,2) (ethylene dibromide)	106934	Dichloroethane (1,2)	107062	Diethanolamine	111422	Ethylbenzene	100414
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	Ethylene glycol 107211 Hexane 110543 Methanol 67561 Methyl isobutyl ketone 108101 Methyl tert butyl ether 1634044 Naphthalene 91203 Phenol 108952 Toluene 108883 Trimethylpentane (2,2,4) 540841 Xylene (m-, o-, p-, and mixed isomers) 108383, 95476, 106423, & 1330207 (B) Affected sources: (1) Miscellaneous process vents from PRPU; (2) Storage vessels associated with PRPU; (3) Wastewater streams and treatment operations associated with PRPU; (4) Equipment leaks from PRPU; (5) Gasoline loading racks (under Standard Industrial Classification Code 2911); (6) Marine vessel loading operations at petroleum refineries that are also subject to NESHAP Y; (7) Storage vessels and equipment leaks associated with bulk gasoline terminals or pipeline breakout stations (under Standard Industrial Classification Code 2911) located within a contiguous area and under common control with a refinery; (8) Heat exchange systems; (9) Releases associated with the decoking operations of a delayed coking unit. (C) Not affected sources: (1) Stormwater from segregated stormwater sewers; (2) Spills; (3) Pumps, compressors, pressure relief devices, sampling connection systems, open-ended valves or lines, valves, or instrumentation systems that are intended to operate in organic HAP service for less than 300 hours per calendar year; (4) Catalytic cracking units and catalytic reformer catalyst regeneration vents and sulfur plant vents; (5) Emission points routed to a fuel gas system. *Major Sources of HAPs emit or have the potential to emit: (1) ≥ 10 tons/year of any single HAP; <u>or</u> (2) ≥ 25 tons/year of total HAPs. Area Sources emit less than Major Sources
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	II. Not Subject to this Subpart: (A) Research and development facilities; (B) Equipment, located within a PRPU subject to this part, that does not contain any of the HAPs listed above; (C) Units processing natural gas liquids; (D) Units that are used specifically for recycling discarded oil; (E) Shale oil extraction units; (F) Ethylene processes; (G) Process units and emission points subject to NESHAPs F, G, H, or I.
Related Rules	NSPS – 40 CFR Part 60 Subpart IIII – Stationary Compression Ignition Internal Combustion Engines (CI ICE) Subpart JJJJ - Stationary Spark Ignition Internal Combustion Engines (SI ICE) NESHAP – 40 CFR Part 63 Subpart PPPPP - Engine Test Cells & Stands
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