



AREA SOURCE STANDARDS UPDATE

Last Updated June 5, 2009

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Clean Air Act - Title III – Section 112(d) and 112(k) – 40 CFR 63 NESHAP

AREA SOURCE STANDARD Source Categories Affected	CFR Subpart	Original Final Fed Register Date & Citation	Compliance Date ¹ (for existing sources)	Source Category Applicability Summaries ²
<u>Acrylic and Modacrylic Fibers Production</u>	LLLLLL	07/16/07 (72FR38864)	01/16/08	Applies to new and existing area sources that manufacture synthetic fibers made from acrylonitrile.
<u>Aluminum, Copper, and Other Nonferrous Foundries</u>	ZZZZZZ	Proposed 02/09/09 (74FR6509)	2 years after publication of final rule	As proposed: Applies to melting operations at new and existing aluminum, copper, and other nonferrous foundries.
<u>Carbon Black Production</u>	MMMMMM	07/16/07 (72FR38864)	07/16/07	Applies to new and existing area sources that produce carbon black by the furnace black process, thermal black process, or the acetylene decomposition process.
<u>Chemical Manufacturing Area Sources: Chromium Compounds</u>	NNNNNN	07/16/07 (72FR38864)	01/16/08	Applies to new and existing area sources that use chromite ore as the basic feedstock to manufacture chromium compounds (primarily sodium dichromate, chromic acid, and chromic oxide).
<u>Chemical Manufacturing Area Sources</u>	VVVVVV	Proposed 10/06/08 (73FR58351)	3 years after publication of final rule	As proposed: Applies to new and existing chemical manufacturing operations at nine chemical manufacturing source categories that process, use, produce, or generate any of the listed hazardous air pollutants.
<u>Clay Ceramics Manufacturing Area Sources</u>	RRRRRR	12/26/07 (72FR73179)	12/26/2007	Applies to any new and existing area source that processes greater than 45 megagrams per year wet clay to manufacture pressed floor tile, pressed wall tile, and other pressed tile; dinnerware; sanitaryware; or pottery.
<u>Commercial Sterilization Facilities (Ethylene Oxide)</u>	O	12/06/1994 (59FR62585)	12/06/1998	Applies to major and area (non-major) HAP sources that use more than one Ton of ethylene oxide per rolling 12-month period to sterilize or fumigate materials. Exempt facilities include those that exist primarily to provide medical services to human and animals (hospitals, clinics, doctor offices).

<u>Decorative and Hard Chromium Electroplating</u>	N	01/25/1995 (60FR4948)	01/25/1996 or 01/25/1997	Applies to chromium emissions from hard and decorative electroplating and chromium anodizing sources. Applies to major and area sources.
<u>Degreasing Organic Cleaners (Halogenated Solvent Cleaning)</u>	T	12/02/1994 (59FR61801)	12/02/1997	Applies to sources with batch cold, batch vapor and in-line solvent cleaning machines using a single regulated HAP halogenated solvent, or any combination of halogenated HAP solvents, in their parts cleaning machine(s) in a total concentration greater than 5% by weight. Applies to major and area sources.
<u>Dry Cleaning (Perc)</u>	M	09/22/1993 (58FR49354)	09/23/1996	Applies to major and area (non-major) HAP sources with dry cleaning operations using perchloroethylene (tetrachloroethylene) as the dry cleaning solvent.
<u>Electric Arc Furnace Steelmaking Facilities</u>	YYYYY	12/28/07 (72FR74088)	06/30/2008	Applies to any new and existing area source electric arc furnace (EAF) steelmaking facility that produces steel by melting ferrous scrap to produce molten steel, which is refined and cast into basic steel shapes.
<u>Flexible Polyurethane Foam Production and Fabrication Area Sources</u>	OOOOOO	07/16/07 (72FR38864)	07/16/08	Applies to new and existing area sources that manufacture foam made from a polyurethane polymer and/or cut, bond, and/or laminate pieces of flexible polyurethane foam together or to other substrates.
<u>Ferroalloys Production Facilities</u>	YYYYYY	12/23/08 (73FR78637)	06/22/09	Applies to new and existing area sources that operate a ferroalloys production facility.
<u>Gasoline Distribution (Stage I) Bulk Terminals, Bulk Plants, and Pipeline Facilities</u>	BBBBBB	01/10/08 (73FR1916)	01/10/2011	Applies to any new or existing area source (non-major) bulk gasoline terminal, pipeline breakout station, pipeline pumping station, and bulk gasoline plant.
<u>Gasoline Distribution (Stage I) Gasoline Dispensing Facilities</u>	CCCCC	01/10/08 (73FR1916)	01/10/2011	Applies to any new or existing gasoline dispensing facility.
<u>General Provisions</u>	A	03/16/1994 (59FR12340)	Varies by Individual MACT standard	Applies to all MACT affected sources. The individual MACT requirements may supersede the General Provisions (Subpart A) by being more or less stringent.
<u>Glass Manufacturing Area Sources</u>	SSSSS	12/26/07 (72FR73179)	12/28/2009	Applies to any new and existing area source that operates one or more glass melting furnace that produces greater than 45 megagrams per year of glass and are charged with one or more of the glass manufacturing metal HAP.
<u>Hazardous Waste Combustion</u>	EEE	09/30/1999 (64FR52827)	09/30/2003	Applies to incinerators, cement kilns, and lightweight aggregate kilns that burn hazardous waste as fuel at major and area HAP sources.
<u>Hospital Ethylene Oxide Sterilizers</u>	WWWWW	12/28/07 (72FR73611)	12/29/2008	Applies to any new and existing area source (non-major) ethylene oxide hospital sterilization facility.
<u>Iron and Steel Foundries Area Sources</u>	ZZZZZ	01/02/08 (73FR225)	01/02/2009 (management practices for metallic scrap and binder formulations); 01/04/2010 (management practices for mercury)	Applies to any new and existing area source that produces final shape castings from grades of iron or produces final shape steel castings by the melting, alloying, and molding of pig iron and steel scrap. Two separate requirements for foundries based on size.

<u>Lead Acid Battery Manufacturing Area Sources</u>	PPPPPP	07/16/07 (72FR38864)	07/16/08	Applies to new and existing area sources that manufacture batteries from lead, lead oxide paste, and sulfuric acid.
<u>Marine Vessel Loading Operations</u>	Y	09/19/1995 (60FR48388)	MACT-09/19/1999 RACT-09/19/1998	Applies to any operation under which a commodity is bulk loaded onto a marine tank vessel from a terminal, including the loading of multiple marine tank vessels during one loading operation. Major sources of HAP are subject, as are new area sources that meet certain criteria.
<u>Mercury Cell Chlor-Alkali Plants (formally Chlorine Production)</u>	IIIII	12/19/03 (68FR70903)	12/19/2006	Applies to area sources of HAP that are considered to be mercury cell chlor-alkali plants. Mercury cell chlor-alkali plants produce chlorine and caustic using mercury cells. Caustic is used to neutralize acidic compounds. Applies to major and area sources.
<u>Metal Fabrication and Finishing Source Categories (Nine Categories)</u>	XXXXXX	07/23/08 (73FR42978)	07/25/2011	Applies to new and existing operations of dry abrasive blasting, machining, dry grinding and dry polishing with machines, spray painting and other spray coating, and welding at nine metal fabrication and finishing source categories.
<u>Municipal Solid Waste (MSW) Landfills</u>	AAAA	01/16/2003 (68FR2227)	01/16/2004	Applies to MSW landfills, including those with bioreactors, which have accepted waste since November 8, 1987. Major sources of HAP are subject, as are some area sources that meet certain design capacity criteria.
<u>Oil and Natural Gas Production</u>	HH	01/03/07 (72FR26)	01/05/2009 ³ 01/04/2010 ³	Applies to new and existing triethylene glycol (TEG) dehydration units located at an area source.
<u>Paints and Allied Products Manufacturing</u>	CCCCCC	Proposed 06/01/2009 (74FR26142)	2 years after publication of final rule	As proposed: Applies to any new and existing area source that performs paints and allied products manufacturing and processes, uses, or generates materials containing specific listed HAP.
<u>Paint Stripping and Miscellaneous Surface Coating Area Sources</u>	HHHHHH	01/09/08 (73FR1738)	01/10/2011	Applies to any new and existing area source facility that uses methylene chloride in a paint stripping operation or coats miscellaneous parts and/or products made of metal or plastic, or combinations of metal and plastic, or autobody refinishing.
<u>Plating and Polishing Operations</u>	WWWWWW	07/01/2008 (73FR37728)	07/01/2010	Applies to new and existing tanks, thermal spraying equipment, and mechanical polishing equipment in certain area source plating and polishing processes.
<u>Polyvinyl Chloride and Copolymer Production</u>	DDDDDD	01/23/07 (72FR2930)	01/23/2007	Applies to new and existing area source plants that produce polyvinylchloride (PVC) or copolymers.
<u>Portland Cement Manufacturing</u>	LLL	06/14/1999 (64FR31898)	06/14/2002	Applies to facilities that manufacture Portland Cement. Excludes Portland Cement kilns that burn hazardous waste as fuel that are subject to Subpart EEE. Applies to major and area sources.
<u>Primary Copper Smelting</u>	EEEEEE	01/23/07 (72FR2930)	01/23/2007	Applies to new and existing area sources that are primary copper smelters.
<u>Primary Nonferrous Metals: Zinc, Cadmium, and Beryllium</u>	GGGGGG	01/23/07 (72FR2930)	01/23/2007	Applies to new and existing area sources that are primary zinc or beryllium production facilities.

<u>Publicly Owned Treatment Works (POTW's)</u>	VVV	10/26/1999 (64FR57572)	10/26/2002	Applies to non-industrial, publicly owned treatment works (POTW), or the portions of POTW used by industry to treat their wastewater to meet other Clean Air Act (CAA) standards. Affects major sources of HAP and certain area sources.
<u>Secondary Aluminum</u>	RRR	03/23/2000 (65FR15629)	03/24/2003	Applies to each secondary aluminum production facility. Applies to major and area sources. For area sources, the affected source includes: (1) Each new and existing thermal chip dryer; (2) Each new and existing scrap dryer/delacquering kiln/decorating kiln; (3) Each new and existing sweat furnace; (4) Each new and existing secondary aluminum processing unit, containing one or more group 1 furnace emission units processing other than clean charge.
<u>Secondary Copper Smelting</u>	FFFFFF	01/23/07 (72FR2930)	01/23/2007	Applies to new area sources that are secondary copper smelters.
<u>Secondary Lead Smelters</u>	X	06/23/1995 (60FR32587)	06/23/1997	Applies to major and area sources of HAP that are considered to be secondary lead smelters. Secondary lead smelters produce lead from scrap and provide the primary means for recycling lead-acid automotive batteries.
<u>Secondary Nonferrous Metals Processing</u>	TTTTTT	12/26/07 (72FR73179)	12/26/2007	Applies to any new and existing area source that uses furnaces to melt post-consumer nonferrous metal scarp to make products including bars, ingot, blocks, and metal powders.
<u>Stationary Internal Combustion Engines</u>	ZZZZ	01/18/2008 (73FR3567)	01/18/2008	Applies to new and existing stationary reciprocating internal combustion engines (RICE) at area sources. No emission reductions are required for existing sources.
<u>Wood Preserving Area Sources</u>	QQQQQQ	07/16/07 (72FR38864)	07/16/07	Applies to new and existing area sources that use pressure or thermal processes to treat wood with preservatives containing chromium metal, arsenic metal, dioxins, or methylene chloride.
<u>8 source categories</u>		to be final by 06/15/2009		

THIS ABOVE LISTING DOES NOT INCLUDE THE *FEDERAL REGISTER* DATES OR CITATIONS FOR AMENDMENTS OR CORRECTIONS MADE TO THESE STANDARDS SINCE THEY WERE FIRST PROMULGATED.

¹ Compliance dates listed above reflect the date most existing sources must comply with at least part of the MACT standard. See standard for other compliance dates. Newly constructed and reconstructed sources must comply upon start-up.

² These summaries are intended solely as guidance, and should not be relied upon to make final applicability determinations. Please review the actual applicability language and definitions of the individual subparts to determine applicability.

³ 2009 compliance date for sources not within any UA plus offset and UC boundary. 2010 compliance date for within any UA plus offset and UC boundary.

Clean Air Act - Title III – Section 129/111(d)

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(Under Solid Waste Rules (Sections 129/111(d) Rules) Click on the desired rule)

- [Solid Waste Combustion](#)
- [Hospital/Medical/Infectious Waste Incineration \(HMIWI\)](#)
- [Municipal Waste Combustors \(MWC\) - Large Units](#)
- [Municipal Waste Combustors -Small Units](#)
- [Commercial/ Industrial Waste Incinerators \(CIWI\)](#)
- [Other Solid Waste Incinerators](#)

47 Area Source Categories Already Subject to Standards

Chromic Acid Anodizing	Hazardous Waste Incineration
Commercial Sterilization Facilities	Medical Waste Incinerators
Decorative Chromium Electroplating	Portland Cement Manufacturing
Dry Cleaning Facilities	Secondary Aluminum Production
Halogenated Solvent Cleaners	Secondary Lead Smelting
Hard Chromium Electroplating	Municipal Landfills
Publicly Owned Treatment Works	Mercury Cell Chlor-Alkali Plants
Municipal Waste Combustors	Other Solid Waste Incineration
Polyvinyl Chloride & Copolymers Production	Secondary Copper Smelting
Primary Nonferrous Metals- Zinc, Cadmium and Beryllium	Primary Copper (not subject to Primary Copper Smelting MACT)
Chemical Manufacturing: Chromium Compounds	Lead Acid Battery Manufacturing
Acrylic Fibers/Modacrylic Fibers Production	Flexible Polyurethane Foam Production
Carbon Black Production	Wood Preserving
Flexible Polyurethane Foam Fabrication Operations	Clay Ceramics
Secondary Nonferrous Metals	Autobody Refinishing Paint Shops
Plastic Parts & Products (surface coatings)	Paint Stripping Operations
Steel Foundries	Iron Foundries
Glass Manufacturing	Plating & Polishing
Stainless & Non-stainless Steel Manufacturing: Electric Arc Furnaces (EAF)	Electrical & Electronic Equipment: Finishing Operations
Fabricated Metal Products, nec.	Iron & Steel Forging
Fabricated Structural Metal Manuf.	Heating Equipment, except electric
Industrial Machinery & Equipment: Finishing Operations	Fabricated Plate Work
Primary Metals Products Manufacturing	Valves & Pipe Fittings

Ferroalloys Production Facilities	
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Deadlines for Specific Area Source Standards under a Court Order Issued May, 2003

Oil and Natural Gas Production	Proposal completed c/o 6/30/05; promulgation 12/21/06
Stationary Internal Combustion Engines	Proposal c/o 10/31/06; promulgation 01/18/08
Hospital Sterilizers	Proposal c/o 10/31/06; promulgation 12/28/07
Gasoline Distribution Stage I	proposal c/o 10/31/06; promulgation 01/10/08

Deadlines for Area Source Categories under a Court Order Issued March 2006

August 17, 2009 - Promulgate 9 categories (Extended deadline for Chemical Manufacturing Categories)
June 15, 2009 - Promulgate 3 categories
August 17, 2009 - Promulgate 5 categories (Extended deadline for several categories)
July 15, 2010 – Promulgate 3 categories (Extended deadline for Sewage Sludge Incineration, Industrial Boilers, and Institutional/Commercial Boilers)

20 Area Source Categories Which Will be Subject to Standards

Ag Chemicals & Pesticides Manuf.	Cyclic Crude & Intermediate Production
Misc. Organic Chemical Manuf. (MON)	Industrial Inorganic Chemical Manufacturing
Pharmaceutical Production	Industrial Organic Chemical Manufacturing
Plastic Materials and Resins Manufacturing	Inorganic Pigments Manufacturing
Synthetic Rubber Manufacturing	Brick & Structural Clay
Paints & Allied Products Manufacturing	Chemical Preparations
Prepared Feeds Manufacturing	Copper Foundries
Asphalt Processing & Asphalt Roofing Manufacturing	Nonferrous Foundries, nec.
Sewage Sludge Incineration	Aluminum Foundries
Industrial Boilers	Institutional/Commercial Boilers



Area Source Standards UPDATE

Last Updated June 5, 2009

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