

Secondary Aluminum Production MACT

Area Source Fact Sheet



This rule, 40 CFR, Part 63, Subpart RRR, subjects Secondary Aluminum Production facilities to Maximum Achievable Control Technology (MACT) requirements. Secondary Aluminum plants recover aluminum from scrap such as beverage cans, as well as other aluminum scrap such as transmissions and other automobile scrap containing aluminum. Aluminum Dross is also included.

MAIN POINTS FOR AREA SOURCES ARE:

- ✓ Area Sources can be deferred from Title V Permitting requirements until December 9, 2004 upon written request.
- ✓ New Area Sources are required to test for Dioxins and Furans upon startup.
- ✓ Existing Sources as of March 23, 2000 are required to test for Dioxins and Furans by March 23, 2003.

WHO?

If you melt recycled aluminum in your business, you may be subject to this MACT. In West Virginia, area sources include aluminum sweat furnaces at auto recycling facilities, general aluminum recycling facilities, and junk /scrap dealers. The status of aluminum foundries and die casting facilities is currently pending implementation of a settlement of litigation.

WHY?

Hazardous air pollutants (HAPs) are emitted by the processes used to recover aluminum in the above listed processes. This rule is designed to reduce these HAPs. AREA SOURCES, those that emit less than 10 Tons per Year (TPY) of any one HAP or 25 TPY of any combination of HAPs. Area sources are subject to limitations on emissions of Dioxins and Furans (or D/F, the combined emissions of tetra- thru octa-chlorinated dibenzo-para-dioxins and dibenzofurans, as measured by EPA Reference Method 23) only.

WHEN?

The effective date of this rule was March 23, 2000. Existing affected sources must comply by March 23, 2003. Area Sources can be deferred from Title V permitting requirements until December 9, 2004 by written request ONLY. However, area sources must continue to comply with the applicable provisions, even if a deferral from Title V permitting requirements has been granted.

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REQUIREMENTS AT AREA SOURCES		
Source	Limit (Metric Units)	Limit (English Units)
Thermal chip dryers	2.50 micrograms (μg) of D/F TEQ per Megagram (Mg) of feed/ charge.	3.5×10^{-5} grains (gr) per ton of feed/ charge.
Scrap dryer /delacquering kiln /decoating kilns WITHOUT an afterburner	0.25 μg of D/F TEQ per Mg of feed/charge	3.5×10^{-6} gr of D/F TEQ per ton of feed/charge
Scrap dryer /delacquering kiln /decoating kilns WITH an afterburner*	5.0 μg of D/F TEQ per Mg of feed/charge	7.0×10^{-5} gr of D/F TEQ per ton of feed/charge
	*having design residence time of at least one second and operated at a temperature of at least 750 °C [1400 °F] at all times	
Sweat Furnaces (These may be referred to as smelters, although typically this term describes a different device)	can't discharge in excess of 0.80 nanogram (ng) of D/F TEQ per dry standard cubic meter (dscm) at 11% O ₂	3.5×10^{-10} gr per dscf at 11% oxygen (O ₂)
	The owner or operator of a sweat furnace is not required to conduct a performance test to demonstrate compliance with the above emission standard provided that an afterburner is operated and maintained properly. Said afterburner must have a design residence time of 0.8 seconds or greater and an operating temperature of 1600° F or greater.	
Group I Furnaces (melts, hold, processes aluminum that contains paint, lubricants, coating, foreign material w/ or w/o flux)	15 μg of D/F TEQ per Mg of feed/charge	2.1×10^{-4} gr of D/F TEQ per ton of feed/charge
	This limit DOES NOT apply if the furnace processes only clean charge.	

TEQ is the international method of expressing toxicity equivalents for Dioxins and Furans.

QUESTIONS? Contact Gene Coccari of the West Virginia Small Business Assistance Program (SBAP) at 1-800-982-2474 or (304) 926-3647.

This fact sheet DOES NOT take the place of the regulatory requirements, but is intended to give a brief overview of some relevant parts the MACT. The full text of Subpart RRR can be viewed online at <http://envinfo.com/caain/june2000/finalal.pdf>