

**APPENDIX E**  
**RBLC STANDARD EMISSION LIMIT UNITS**  
**BY PROCESS TYPE CODE**

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## Appendix E --RBLC Standard Emission Units by Process Type Code

Standard emission units have been established for the processes listed below. These units are required for reporting standardized emission limits in the RBLC data base for these processes. Standardization of emission units facilitates ranking of emission control requirements on a pollutant specific basis. For visible emissions (VE), percent ( %) opacity has been established as the standardized unit for all processes

<b>Clearinghouse Process Code</b>	<b><u>Name or Description</u></b>	<b><u>Pollutant</u></b>	<b><u>Required Emission Units</u></b>
ALL	All Processes with Emission Limits for Visible Emissions	Visible Emissions	% Opacity
11.110 11.120 11.210 11.220 11.310	Utility and Large Industrial Size Boilers/ Furnaces (>250 MMBTU/H)	PM, PM10, PM2.5, SOx, NOx, CO	LB/MMBTU
12.110 12.120 12.210 12.220 12.310	Industrial-Size Boilers/Furnaces (> 100MMBTU/H and <= 250 MMBTU/H)	PM, PM10, PM2.5, SOx, NOx, CO	LB/MMBTU
13.110 13.120 13.210 13.220 13.310	Commercial/Institutional-Size Boilers/Furnaces (<= 100 MMBTU/H)	PM, PM10, PM2.5, SOx, NOx, CO	LB/MMBTU
15.110 15.190 15.210 15.290	Large Combustion Turbines (>25 MW)	NOx, CO	PPM @ 15% O <sub>2</sub>
16.110 16.190 16.210 16.290	Small Combustion Turbine (<= 25 MW)	NOx, CO	PPM @ 15% O <sub>2</sub>
17.110 17.130 17.210 17.230	Internal Combustion Engines	NOx, CO	G/B-HP-H

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21.100	Commercial/Industrial Solid Waste Combustion	CO, HCL, SO <sub>2</sub> , & NO <sub>x</sub>	PPMVD @7% O <sub>2</sub>
		PM, PM <sub>10</sub> , PM 2.5, CD, PB & HG	MG/DSCM @ 7% O <sub>2</sub>
		Dioxins / Furans	NG/DSCM TEQ @7% O <sub>2</sub>
21.200	Hazardous Waste Incineration	AS, BE, CR, CD, PB, HG	Micro G/DSCM @7% O <sub>2</sub>
		HCL, CL <sub>2</sub> , CO & HC	PPMV @7% O <sub>2</sub>
		PM, PM <sub>10</sub> & PM <sub>2.5</sub>	MG/DSCM @7% O <sub>2</sub>
		Dioxins / Furans	NG/DSCM TEQ @7% O <sub>2</sub>
21.300	Hospital/Medical/Infectious Waste Incineration	CO, NO <sub>x</sub> , SO <sub>2</sub> & HCL	PPMVD @7% O <sub>2</sub>
		PM, PM <sub>10</sub> , PM 2.5, CD, PB, HG	MG/DSCM @7% O <sub>2</sub>
		Dioxins / Furans	NG/DSCM TEQ @7% O <sub>2</sub>
21.400	Municipal Waste Combustion	PM, PM <sub>10</sub> , PM <sub>2.5</sub> , CD, PB, HG	MG/DSCM @7% O <sub>2</sub>
		SO <sub>2</sub> , HCL, NO <sub>x</sub> , CO	PPMV @7% O <sub>2</sub>
		Dioxins / Furans	NG/DSCM @7% O <sub>2</sub>
21.500	Wastewater Treatment Sludge Incineration	PM, PM <sub>10</sub> & PM <sub>2.5</sub>	LB/T of dry sludge input
		HG	G/24 HR Period
30.211	Kraft Pulp Mills - Recovery Furnaces/Boilers	PM, PM <sub>10</sub> & PM <sub>2.5</sub>	GR/DSCF @ 8% O <sub>2</sub>
30.212	Kraft Pulp Mills - Smelt Dissolving Tanks	PM, PM <sub>10</sub> & PM <sub>2.5</sub>	LB/T BLS

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30.221	Kraft Pulp Mills - Batch Digesters	TRS	PPMVD @ 10% O <sub>2</sub>
30.231	Kraft Pulp Mills - Lime Kilns	PM, PM10 & PM2.5	GR/DSCF @ 10% O <sub>2</sub>
30.310	Plywood Dryers	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.320	Plywood Presses	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.520	Particle Board & Strand Board Presses	HAP	LB/MSF (1000 FT <sup>2</sup> )
		Methanol, Formaldehyde	PPMVD
30.530	Particle Board & Strand Board - Dryers	HAP	LB/ODT (Oven Dried Ton)
		Methanol, Formaldehyde	PPMVD
41.002	Auto & Light Truck Surface Coating	VOC	LB/GAL ACS
41.004	Can Surface Coating	VOC	LB/GAL ACS
41.007	Flexible Vinyl & Urethane Coating and Printing	VOC	LB/LB ink solids
41.008	Large Appliance Surface Coating	VOC	LB/GAL ACS
41.011	Metal Coil Surface Coating	VOC	LB/GAL ACS
41.012	Metal Furniture Surface Coating	VOC	LB/GAL ACS
41.015	Plastic Parts for Business Machines Surface Coating	VOC	LB/GAL ACS
41.018	Pressure Sensitive Tape & Label Surface Coating	VOC	LB/LB ACS
50.003	Petroleum Refining - Cracking	PM, PM10 & PM2.5, SO <sub>x</sub> CO	LB/1000 LB PPMV
50.006	Petroleum Refining - Claus Sulfur Recovery Units	SO <sub>x</sub> , TRS, H <sub>2</sub> S	PPMV @ 0% Excess Air
61.009	Phosphate Fertilizers Production	Total Fluoride	LB/T
62.001	Ammonium Sulfate Production	PM, PM10 & PM2.5	LB/T ammonium sulfate
62.014	Nitric Acid Plants	NOX	LB/T of Acid Produced (100% acid)
62.015	Sulfuric Acid Plants	SO <sub>2</sub> & Sulfuric Acid Mist	LB/T
65.001 -	Synthetic Fibers Production	VOC	LB/1000 LB

<b>Clearinghouse Process Code</b>	<b><u>Name or Description</u></b>	<b><u>Pollutant</u></b>	<b><u>Required Emission Units</u></b>
65.999			solvent feed
70.210	Grain Dryers	PM, PM10 & PM2.5	GR/DSCF
70.230	Grain Loading & Handling	PM, PM10 & PM2.5	GR/DSCF
70.290	Other Grain Handling	PM, PM10 & PM2.5	GR/DSCF
81.210 81.310 81.510	Electric Arc Furnaces (EAF) used at: Integrated Iron & Steel Production & Mini Mills; Steel Foundries; Ferroalloy Production (Includes Stainless & Specialty Steels)	PM, PM10 & PM2.5	GR/DSCF
82.111	Primary AL Furnaces & Pot Lines	Total Fluorides	LB/T
82.121	Secondary AL Furnaces	Total Fluorides	LB/T
82.510	Lead Acid Battery Manufacturing (All Lead Emitting Operations)	Pb (Lead)	GR/DSCF
90.004	Hot-Mix Asphalt Processing	PM, PM10 & PM2.5	GR/DSCF
90.011	Coal Handling/Processing/Preparation/Cleaning	PM, PM10 & PM2.5	GR/DSCF
90.016	Glass Manufacturing Furnace	PM, PM10 & PM2.5	LB/T
90.019	Lime/Limestone Handling/Kilns/Storage/Manufacturing.	PM, PM10 & PM2.5	LB/T
90.021	Metallic Mineral/Ore Processing	PM, PM10 & PM2.5	GR/DSCF
90.024	Non-metallic Mineral Processing	PM, PM10 & PM2.5	GR/DSCF
90.026	Phosphate Rock Processing	PM, PM10 & PM2.5	LB/T
90.028	Portland Cement Plants - kiln, in-line raw mill and kiln, clinker cooler	PM, PM10 & PM2.5	LB/T
90.033	Wool Fiberglass Manufacturing	PM, PM10 & PM2.5	LB/T glass pulled
90.034	Asphalt Roofing Products Manufacturing	PM, PM10 & PM2.5	LB/1000 LB
99.015	Rubber Tire Manufacturing Industry - Tread End Cementing, Water-Based Inside Green Tire Spray, & Water-Based Outside Green Tire Spray	VOC	G/TIRE/MO
	Bead Cementing	VOC	G/Bead/MO

<b>Clearing use Process Code</b>	<b><u>Name or Description</u></b>	<b><u>Pollutant</u></b>	<b><u>Required Emission Units</u></b>
	Organic Green Tire Spray, Michelin A Operations, Michelin B Operations, Michelin C Operations, Sidewall Cementing, & Undertread Cementing	VOC	% Reduction