

Chapter NR 255

**INTERIM EFFLUENT LIMITATIONS FOR THE
IRON AND STEEL PRODUCTION
WISCONSIN POLLUTANT DISCHARGE
ELIMINATION SYSTEM**

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Note: Pursuant to Chapter 74, Laws of 1973, in sections 147.04 (3) and (5) and under the procedure of section 227.027, Wis. Stats., the department of natural resources has promulgated interim effluent limitations which become effective February 1, 1974 and will remain in effect for a period of one year. These interim effluent limitations will be periodically replaced by permanent effluent limitations.

NR 255.01 Purpose. The purpose of this chapter is to establish interim effluent limitations for discharges from industrial point sources identified herein as authorized by section 147.04 (5), Wis. Stats.

History: Emerg. cr. eff. 2-1-74.

NR 255.02 Applicability. These limitations apply to Standard Industrial Classification Code 3312.

(1) Subcategories included. Subcategories are coke manufacture, iron manufacture, steel manufacture, hot forming, pickling, cold rolling sheet and strip (recirculation), cold rolling sheet and strip (direct application), tin plate and chromium-coated steel, and other coatings.

History: Emerg. cr. eff. 2-1-74.

NR 255.03 Application of interim limitations. The interim limitations are to be used only for carbon steel integrated facilities.

(1) The effluent limitations are process weight limits and were developed on the basis of the actual process water needed in each of the listed operations. The limitations levels are values to be applied to each operation after treatment and prior to mixing with other process wastewater or cooling water. The calculations for each operation are to be made separately and the values accumulated for all operations to evaluate the adequacy of treatment facilities and/or control technology.

History: Emerg. cr. eff. 2-1-74.

NR 255.04 Identification of abatement models. Abatement or treatment models on which the interim limitations of this chapter were developed are identified by process in the following tabulation.

<i>Subcategory</i>	<i>Treatment</i>
(1) Coke Manufacturing	Dephenolizer Solvent Extraction Biological
(2) Iron Manufacturing	Recycle and Blowdown Treatment

<i>Subcategory</i>	<i>Treatment</i>
(3) Steel Manufacturing	Recycle and Blowdown Treatment
(4) Pickling	Neutralization Precipitation Chemical Treatment Flocculation Clarification Acid Regeneration
(5) Cold Rolling	Emulsion Breaking
(a) Recirculating Oil	Recirculation Skimming Air Flotation Magnetic Separation Biological Treatment
Cold Rolling	Settling
(b) Direct Application	Emulsion Breaking Air Flotation Chemical Treatment Skimming
(6) Tinsplate and Chromium Plating	Ion Exchange for Chromium Air Flotation Chemical Treatment Flocculation Settling Basin
(7) Other Coatings	Segregation and Separate Treatment

History: Emerg. cr. eff. 2-1-74.

NR 255.05 Table of effluent limitations (In Pounds per Ton¹).

Subcategory	Parameters	Limitations
(1) Coke Manufacturing	Ammonia (N)	.2
	Cyanide	.005
	Phenol	.0002
(2) Iron Manufacturing	Suspended Solids	.09
	Ammonia (N)	.1
	Cyanide	.006
	Phenol	.005
(3) Steel Manufacturing	Suspended Solids	.02
(4) Hot Forming	Suspended Solids	.1
	Oil & Grease	.1
(5) Pickling	Suspended Solids ¹	.025
	Iron, Dissolved ¹	.002
	Chloride ²	3
	Sulfate ²	7
(6) Cold Rolling (a) Recirculating Oil	Suspended Solids	.04
	Iron, Total	.02
	Iron, Dissolved	.002
	Oil & Grease	.016
(b) Direct Application	Suspended Solids	.2
	Oil & Grease	.06

Subcategory	Parameters	Limitations
(7) Tin Plate and Chromium Coated Steel (Cleaning, pickling, plating & chemical rinse)	Suspended Solids.....	.2
	Chromium, Total Dissolved.....	.009
	Iron, Dissolved.....	.015
	Oil & Grease.....	.125
	Tin.....	.09
	Cyanide, Free.....	.01
(8) Coatings other than Tin & Chromium (Dip or Electrolytic).....	Iron, Dissolved.....	.02
	Chromium, Total Dissolved.....	.0008
	Zinc, Total Dissolved.....	.02
	Cyanide, Free.....	.003
	Suspended Solids.....	.25
	Oil & Grease.....	.17

NOTES:

¹Tons are defined for process subcategories as follows:

Coke Manufacturing—lbs/ton dry coal.

Iron Manufacturing—lbs/ton hot metal.

Steel Manufacturing—lbs/ton liquid steel.

Hot Forming—lbs/ton hot formed.

Cold Finishing and Coating—lbs/ton processed.

²Limitations do not apply to batch pickling operations.

History: Emerg. cr. eff. 2-1-74.