

**Chapter NR 255**

**IRON AND STEEL PRODUCTION**

(Interim Effluent Limitations)

NR 255.01 Purpose	NR 255.04 Identification of abatement models
NR 255.02 Applicability	
NR 255.03 Application of interim limitations	NR 255.05 Table of effluent limitations

**Note:** Pursuant to chapter 147, Wis. Stats. and under the procedure of section 227.027, Wis Stats., the department of natural resources has promulgated interim effluent limitations which were in effect for 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), Wisconsin Statutes.

**History:** Cr. eff. 2-28-75.

**NR 255.02 Applicability.** These limitations apply to Standard Industrial Classification Code 3312. Subcategories included are hot forming, pickling, cold rolling sheet and strip (recirculation), cold rolling sheet and strip (direct application), tin plating and chromium coating steel, and other application of other coatings.

**History:** Cr. eff. 2-28-75.

**NR 255.03 Application of interim limitations.** (1) The interim limitations are to be used only for carbon steel integrated facilities. Interim effluent limitations in accordance with Wis. Adm. Code chapter NR 217 are applicable to discharges from facilities in the iron and steel industry not subject to the provisions of this chapter or Wis. Adm. Code chapter NR 254.

(2) 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 limitation 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:** Cr. eff. 2-28-75.

**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 tabulations:

Subcategory	Treatment
(1) Pickling	Neutralization Precipitation Chemical Treatment Flocculation Clarification Acid Regeneration

- (2) Cold Rolling
  - (a) Recirculating Oil
    - Emulsion Breaking
    - Recirculation
    - Skimming
    - Air Flotation
    - Magnetic Separation
    - Biological Treatment
  - (b) Direct Application
    - Settling
    - Emulsion Breaking
    - Air Flotation
    - Chemical Treatment
    - Skimming
- (3) Tinplate and Chromium Plating
  - Ion Exchange for Chromium
  - Air Flotation
  - Chemical Treatment
  - Flocculation
  - Settling Basin
- (4) Other Coatings
  - Segregation and Separate Treatment

History: Cr. eff. 2-28-75.

**NR 255.05 Table of effluent limitations.**

Subcategory	Parameters	Limitations
(1) Hot Forming	Suspended Solids	.1
	Oil & Grease	.1
(2) Pickling (continuous)	Suspended Solids	.025
	Iron, Dissolved	.002
	Chloride	3
	Sulfate	7
(3) Cold Rolling (a) Recirculating Oil	Suspended Solids	.04
	Iron, Total	.02
	Iron, Dissolved	.002
	Oil & Grease	.016
	Suspended Solids	.2
(b) Direct Application	Oil & Grease	.06
	<b>Tin Plate and Chromium Coated Steel</b>	
	(Cleaning, Pickling, plating & chemical rinse)	
	Suspended Solids	.2
	Chromium, Total Dissolved	.009
(4) Coatings other than Tine & Chromium (Dip or Electrolytic)	Iron, Dissolved	.015
	Oil & Grease	.125
	Tin	.09
	Cyanide, Free	.01
	Iron, Dissolved	.02
	Chromium, Total Dissolved	.0008
	Zinc, Total Dissolved	.02
	Cyanide, Free	.003
Suspended Solids	.25	
Oil & Grease	.17	

Note: Limitations are for 30 day average values in pounds per tons formed or processed.

History: Cr. eff. 2-28-75.