

Chapter NR 283

PULP AND PAPER MANUFACTURING

(Interim Effluent Limitations)

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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 283.01 Purpose. The purpose of this chapter is to establish interim effluent limitations for discharges resulting from manufacture of pulp and paper in subcategories identified herein.

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

NR 283.02 Applicability. The limitations of this chapter apply to discharges resulting from the manufacture of pulp and paper in the subcategories identified in section NR 283.05. Effluent limitations set forth in Wisconsin Administrative Code chapter 217 are applicable to such discharges from manufacturing which does not fit into such categories or the subcategories for which effluent limitations are set forth in Wisconsin Administrative Code chapter NR 285.

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

NR 283.03 Application of interim limitations. (1) Daily discharge limitations for facilities subject to the provisions of this chapter shall be based on the highest average daily production in air dry tons sustained for seven consecutive operating days of normal production.

(2) Daily discharge limitations for specialty paper mills shall be handled on a selective basis.

(3) The limitations of this chapter are not directly applicable for determining daily discharge limitations for facilities manufacturing less than 200 tons of sulphite pulp and paper daily, less than 50 tons of tissue paper from purchased pulp daily, or less than 200 tons of fine papers from purchased pulp daily.

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

NR 283.04 Description of abatement models. (1) The following production process controls and treatment systems are a model for attaining the recommended effluent limitations for the industry except tissue paper mills using purchased pulp:

Heat and/or chemical recovery from pulping liquors, efficient save-alls within the paper making process, and a high degree of water reuse,

Primary clarification,

Biological oxidation using aerated lagoons or activated sludge,

Secondary clarification,
Disinfection, if necessary.

(2) The treatment model for tissue mills, using purchased pulp, is based on an expected effluent quality from efficient physical or physical-chemical treatment. The majority of the BOD in this wastewater is associated with fibrous materials and thus, is amenable to this type of treatment. The application of biological oxidation to this wastewater would not significantly lower the effluent BOD. The wastewater is also nutrient deficient and, therefore, subsequent nutrient additions to support a biological system would result in an additional loading on the receiving water.

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

NR 283.05 Table of interim effluent limitations.

Subcategories	BOD, lbs/ton	Suspended Solids lbs/ton
(1) Kraft Pulping and Manufacture of:		
(a) Newsprint	5	6
(b) Bleached & Unbleached Grades	9	10
(c) Bleached Grades	11	10
(2) Sulfite Pulping and the Manufacture of:		
(a) Paper	35	20
(b) Dissolving Pulp	65	20
(3) Groundwood		
(a) Unbleached	2.5	5
(b) Bleached	4.5	9
(4) Deinking Mill	10	16
(5) Paper Manufacture (From Purchased Pulp)		
(a) Coarse	2	3
(b) Fine (<8% filled)	6	7
(c) Book (>8% filled)	3	4
(d) Tissue	8	6

Note: Groups 1, 2, 3 and 4 refer to integrated mills (combined pulping and papermaking operations).

Limitations represent best practicable control technology currently available.

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