

Chapter NR 297

TIMBER PRODUCTS PROCESSING

- NR 297.001 Purpose.
 NR 297.002 Applicability.
 NR 297.003 General definitions.
 NR 297.004 Numerical limitations.
 NR 297.005 Compliance dates.
- Subchapter I – Barking Subcategory**
 NR 297.01 Applicability; description of the barking subcategory.
 NR 297.011 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.013 New source performance standards.
 NR 297.014 Pretreatment standards for existing sources.
 NR 297.015 Pretreatment standards for new sources.
- Subchapter II – Veneer Subcategory**
 NR 297.02 Applicability; description of the veneer subcategory.
 NR 297.021 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.022 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.023 New source performance standards.
 NR 297.024 Pretreatment standards for existing sources.
 NR 297.025 Pretreatment standards for new sources.
- Subchapter III – Plywood Subcategory**
 NR 297.03 Applicability; description of the plywood subcategory.
 NR 297.031 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.032 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.033 New source performance standards.
 NR 297.034 Pretreatment standards for existing sources.
 NR 297.035 Pretreatment standards for new sources.
- Subchapter IV – Dry Process Hardboard Subcategory**
 NR 297.04 Applicability; description of the dry process hardboard subcategory.
 NR 297.041 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.042 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.043 New source performance standards.
 NR 297.044 Pretreatment standards for existing sources.
 NR 297.045 Pretreatment standards for new sources.
- Subchapter V – Wet Process Hardboard Subcategory**
 NR 297.05 Applicability; description of the wet process hardboard subcategory.
 NR 297.051 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.053 New source performance standards.
 NR 297.054 Pretreatment standards for existing sources.
 NR 297.055 Pretreatment standards for new sources.
- Subchapter VI – Waterborne and Nonpressure Wood Preserving Subcategory**
 NR 297.06 Applicability; description of the water borne and nonpressure wood preserving subcategory.
- NR 297.061 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.062 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.063 New source performance standards.
 NR 297.064 Pretreatment standards for existing sources.
 NR 297.065 Pretreatment standards for new sources.
- Subchapter VII – Steam Wood Preserving Subcategory**
 NR 297.07 Applicability; description of the steam wood preserving subcategory.
 NR 297.071 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.073 New source performance standards.
 NR 297.074 Pretreatment standards for existing sources.
 NR 297.075 Pretreatment standards for new sources.
- Subchapter VIII – Boulton Wood Preserving Subcategory**
 NR 297.08 Applicability; description of the boulton wood preserving subcategory.
- NR 297.081 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.082 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.083 New source performance standards.
 NR 297.084 Pretreatment standards for existing sources.
 NR 297.085 Pretreatment standards for new sources.
- Subchapter IX – Wet Storage Subcategory**
 NR 297.09 Applicability; description of the wet storage subcategory.
 NR 297.091 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.092 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.093 New source performance standards.
 NR 297.094 Pretreatment standards for existing sources.
 NR 297.095 Pretreatment standards for new sources.
- Subchapter X – Log Washing Subcategory**
 NR 297.10 Applicability; description of the log washing subcategory.
 NR 297.101 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.102 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.103 New source performance standards.
 NR 297.104 Pretreatment standards for existing sources.
 NR 297.105 Pretreatment standards for new sources.
- Subchapter XI – Sawmills and Planing Mills Subcategory**
 NR 297.11 Applicability; description of the sawmills and planing mills subcategory.
- NR 297.111 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.112 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.113 New source performance standards.
 NR 297.114 Pretreatment standards for existing sources.
 NR 297.115 Pretreatment standards for new sources.
- Subchapter XII – Finishing Subcategory**
 NR 297.12 Applicability; description of the finishing subcategory.
 NR 297.121 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.122 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.123 New source performance standards.
 NR 297.124 Pretreatment standards for existing sources.
 NR 297.125 Pretreatment standards for new sources.
- Subchapter XIII – Particleboard Manufacturing Subcategory**
 NR 297.13 Applicability; description of the particleboard manufacturing subcategory.
- NR 297.131 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.132 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.133 New source performance standards.
 NR 297.134 Pretreatment standards for existing sources.
 NR 297.135 Pretreatment standards for new sources.
- Subchapter XIV – Insulation Board Subcategory**
 NR 297.14 Applicability; description of the insulation board subcategory.
 NR 297.141 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.143 New source performance standards.
 NR 297.144 Pretreatment standards for existing sources.
 NR 297.145 Pretreatment standards for new sources.

Subchapter XV – Wood Furniture and Fixture Production Without Water Wash Spray Booths or Without Laundry Facilities Subcategory

- NR 297.15 Applicability; description of the wood furniture and fixture production without water wash spray booths or without laundry facilities subcategory.
- NR 297.151 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.152 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.153 New source performance standards.
- NR 297.154 Pretreatment standards for new sources.
- NR 297.155 Pretreatment standards for existing sources.

Subchapter XVI – Wood Furniture and Fixture Production With Water Wash Spray Booths or With Laundry Facilities Subcategory

- NR 297.16 Applicability; description of the wood furniture and fixture production with water wash spray booths or with laundry facilities subcategory.
- NR 297.161 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available.
- NR 297.162 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable.
- NR 297.163 New source performance standards.
- NR 297.164 Pretreatment standards for new sources.
- NR 297.165 Pretreatment standards for existing sources.

Note: Chapter NR 297 as it existed on April 30, 1989, was repealed and a new Chapter NR 297 was created effective May 1, 1989.

NR 297.001 Purpose. The purpose of this chapter is to establish effluent limitations, performance standards, and pretreatment standards for discharge of process wastes from the timber products processing category of point sources and its subcategories.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

NR 297.002 Applicability. This chapter applies to any timber products processing operation and any plant producing insulation board with wood as a major raw material which discharges or may discharge process wastewater pollutants to the waters of the state or which introduces or may introduce process wastewater pollutants into a publicly owned treatment works.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

NR 297.003 General definitions. The following definitions are applicable to the terms used in this chapter. Definitions of other terms and abbreviations are set forth in ss. NR 205.03, 205.04, and 211.03.

(1) “Boulton process” means a process in which unseasoned wood is heated in an oily preservative under a partial vacuum to reduce the wood’s moisture content prior to injection of the preservative.

(2) “Byproduct utilization” means the manufacture of products from bark and wood waste materials exclusive of the manufacture of insulation board, particleboard, hardboard, or products in other categories or subcategories covered by specific limitations.

(3) “Debris” means woody material such as bark, twigs, branches, heartwood, or sapwood which will not pass through a 2.54 cm (1.0 in) diameter round opening and which is present in the discharge from a wet storage facility.

(4) “Existing source” means any point source, except a new source as defined in sub. (9), from which pollutants may be discharged either into waters of the state or into a publicly owned treatment works.

(5) “Gross production of fiberboard products” means the air dry weight of hardboard or insulation board following formation of the mat and prior to trimming and finishing operations.

(6) “Hardboard” means a panel manufactured from interfelted lignocellulosic fibers consolidated under heat and pressure to a density of 0.5 g/cu cm (31 lb/cu ft) or greater.

(7) “Hydraulic barking” means a wood processing operation that removes bark from wood by the use of water under a pressure of 6.8 atm (100 psia) or greater.

(8) “Insulation board” means a panel manufactured from interfelted lignocellulosic fibers consolidated to a density of less than 0.5 g/cu cm (31 lb/cu ft).

(9) “New source,” as defined for purposes of new source performance standards and treatment standards for new sources, means any point source for which construction commenced after October 31, 1979, and from which pollutants are or may be dis-

charged directly to waters of the state or to a publicly owned treatment works.

(10) “Particleboard” means board products composed of underfiberized particles of wood and other lignocellulosic materials bonded together with organic or inorganic binder materials.

(11) “Process wastewater” means wastewater other than non-contact cooling water, material storage yard runoff, and boiler blowdown. For the dry process hardboard, veneer, finishing, particleboard, and sawmills and planing mills subcategories, fire control water is not process wastewater.

(12) “Self contained body of water” means a body of water which does not have a continuous natural influent of either surface or groundwater and which is used to store raw materials for the manufacture of lumber and wood products except for timber.

(13) “Smooth—one-side hardboard” means hardboard which is produced by the wet matting wet pressing process.

(14) “Smooth—two-side hardboard” means hardboard which is produced by the wet matting dry pressing process.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

NR 297.004 Numerical limitations. For the subcategories with numerical limitations, the daily maximum limitation is a value which may not be exceeded by any one effluent measurement. The 30-day limitation is a value that may not be exceeded by the average of daily measurements taken during any 30-day period.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

NR 297.005 Compliance dates. (1) Any existing source subject to this chapter which discharges to waters of the state shall achieve:

(a) The effluent limitations representing BPT by July 1, 1977; and

(b) The effluent limitations representing BAT by July 1, 1984

(2) Any new source subject to this chapter which discharges to waters of the state shall achieve NSPS at the commencement of discharge.

(3) Any existing source subject to this chapter which introduces process wastewater pollutants into a POTW shall achieve PSES by January 26, 1984.

(4) Any new source subject to this chapter which introduces process wastewater pollutants into a POTW shall achieve PSNS at the commencement of discharge.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

Subchapter I – Barking Subcategory

NR 297.01 Applicability; description of the barking subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from the barking of logs by plants in the lumber and wood products industry, except for furniture making, and plants producing insulation board.

History: Cr. Register, April, 1989, No. 400, eff. 5–1–89.

NR 297.011 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT.

(1) Mechanical barking installations may not discharge process wastewater pollutants into waters of the state.

(2) The following limitations apply to hydraulic barking installations:

Table 1

Hydraulic Barking

BPT Effluent Limitations

Pollutant or pollutant property	Average of daily values for 30 consecutive days			
	Maximum for any 1 day kilograms/cubic meter (pounds per cubic foot) of logs from which bark is removed			
BOD ₅	1.5	(0.09)	0.5	(0.03)
TSS	6.9	(0.431)	2.3	(0.144)
pH	(1)		(1)	

(1) Within the range of 6.0 to 9.0 at all times

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.013 New source performance standards. The discharge of wastewater pollutants from any new source subject to this subchapter may not exceed the following standards.

(1) Mechanical barking installations may not discharge process wastewater pollutants into waters of the state.

(2) Hydraulic barking installations may not exceed the limitations set forth in s. NR 297.011 (2).

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.014 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.015 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter II – Veneer Subcategory

NR 297.02 Applicability; description of the veneer subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from any plant which manufactures veneer and does not store or hold raw materials in wet storage conditions.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.021 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT.

(1) Except for the installations subject to subs. (2) and (3), veneer manufacturing installations may not discharge process wastewater pollutants into waters of the state.

(2) The following limitations apply to softwood veneer manufacturing processes which use direct steaming for the conditioning of logs:

Table 2

Softwood Veneer Manufacturing With Direct Steaming

Pollutant or pollutant property	BPT Effluent Limitations			
	Maximum for any 1 day		Average of daily values for 30 consecutive days	
kilograms/cubic meter (pounds per cubic foot) of veneer produced				
BOD ₅	0.72	(0.045)	0.24	(0.015)
pH	(1)		(1)	

(1) Within the range of 6.0 to 9.0 at all times

(3) The following limitations apply to hardwood veneer manufacturing processes which use direct steaming for the conditioning of logs:

Table 3

Hardwood Veneer Manufacturing With Direct Steaming

Pollutant or pollutant property	BPT Effluent Limitations			
	Maximum for any 1 day		Average of daily values for 30 consecutive days	
kilograms/cubic meter (pounds per cubic foot) of veneer produced				
BOD ₅	1.62	(0.10)	0.54	(0.034)
pH	(1)		(1)	

(1) Within the range of 6.0 to 9.0 at all times

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.022 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.023 New source performance standards. Any new source subject to this subchapter may not discharge wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.024 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.025 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter III – Plywood Subcategory

NR 297.03 Applicability; description of the plywood subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from any plywood production plant which does not store or hold raw materials in wet storage conditions.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.031 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.032 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.033 New source performance standards.

Any new source subject to this subchapter may not discharge process wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.034 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.035 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter IV – Dry Process Hardboard Subcategory

NR 297.04 Applicability; description of the dry process hardboard subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from any plant which produces hardboard using the dry matting process for forming the board mat.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.041 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.042 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.043 New source performance standards. Any new source subject to this subchapter may not discharge process wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.044 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.045 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter V – Wet Process Hardboard Subcategory

NR 297.05 Applicability; description of the wet process hardboard subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from any plant which produces hardboard products using the wet matting process for forming the board mat.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.051 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT:

Table 4 Smooth–One–Side Hardboard BPT Effluent Limitations		
Pollutant or pollutant property	Maximum for any 1 day	Average of daily values for 30 consecutive days
	kg/kg (lb/1,000 pounds) of gross production	
BOD ₅	20.5	10.7
SS	37.3	24.6
pH	(1)	(1)

(1) Within the range of 6.0 to 9.0 at all times

Table 5 Smooth–Two–Sides Hardboard BPT Effluent Limitations		
Pollutant or pollutant property	Maximum for any 1 day	Average of daily values for 30 consecutive days
	kg/kg (lb/1,000 pounds) of gross production	
BOD ₅	32.9	21.4
TSS	54.2	37.1
pH	(1)	(1)

(1) Within the range of 6.0 to 9.0 at all times

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.053 New source performance standards.
(1) For purposes of the wet process subcategory only, “new source” means a source which is constructed at a site which has no other source covered by this chapter.

(2) Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.054 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.055 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter VI – Waterborne and Nonpressure Wood Preserving Subcategory

NR 297.06 Applicability; description of the water borne and nonpressure wood preserving subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from pressure wood preserving treatment processes which employ water borne inorganic salts and all nonpressure wood preserving treatment processes.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.061 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any

existing point source subject to this subchapter may not discharge process wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.062 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.063 New source performance standards. Any new source subject to this subchapter may not discharge wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.064 Pretreatment standards for existing sources. Except as provided in ss. NR 211.13 and 211.14, any existing source subject to this subchapter shall comply with ch. NR 211 and may not introduce process wastewater pollutants into a POTW.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.065 Pretreatment standards for new sources. Except as provided in s. NR 211.13, any new source subject to this subchapter shall comply with ch. NR 211 and may not introduce process wastewater pollutants into a POTW.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter VII – Steam Wood Preserving Subcategory

NR 297.07 Applicability; description of the steam wood preserving subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from 4 types of operations:

- (1) Wood preserving processes which use direct steam impingement on wood as the predominant conditioning method;
- (2) Wood preserving processes which use the vapor drying process as the predominant conditioning method;
- (3) Direct steam conditioning processes which use the same retort to treat with both salt and oil type preservatives; and
- (4) Steam conditioning processes which apply both salt type and oil type preservatives to the same stock.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.071 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT:

Table 6 Steam Wood Preserving BPT Effluent Limitations				
	Maximum for any 1 day		Average of daily values for 30 consecutive days	
Pollutant or pollutant property	kilograms/1,000 cubic meters (pounds per 1,000 cubic feet) of product			
COD	1,100.0	(68.5)	550.0	(34.5)
Phenols	2.18	(0.14)	0.65	(0.04)
Oil and grease	24.0	(1.5)	12.0	(0.75)

pH (1) (1)

(1) Within the range of 6.0 to 9.0 at all times

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.073 New source performance standards. Any new source subject to this subchapter may not discharge wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.074 Pretreatment standards for existing sources. Except as provided in ss. NR 211.13 and 211.14, any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211 and achieve the following PSES. The following mass limitations are provided as guidance for cases where the POTW finds that mass limitations are necessary.

Table 7 Steam Wood Preserving PSES		
Maximum for any 1 day		
Pollutant or pollutant property	mg/liter	grams/cubic meter of produc- tion
Oil and grease	100	20.5
Copper	5	0.62
Chromium	4	0.41
Arsenic	4	0.41

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.075 Pretreatment standards for new sources. Except as provided in s. NR 211.13, any new source subject to this subchapter shall comply with ch. NR 211 and may not introduce process wastewater pollutants into a POTW.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter VIII – Boulton Wood Preserving Subcategory

NR 297.08 Applicability; description of the boulton wood preserving subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from wood preserving operations which use the Boulton process as the predominant method of conditioning stock.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.081 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.082 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.083 New source performance standards. Any new source subject to this subchapter may not discharge process wastewater pollutants to waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.084 Pretreatment standards for existing sources. Except as provided in ss. NR 211.13 and 211.14, any

existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211 and achieve the following PSES. The following mass limitations are provided as guidance for cases where the POTW finds that mass limitations are necessary.

Table 8
Boulton Wood Preserving

PSES		
Maximum for any 1 day		
Pollutant or pollutant property	mg/liter	grams/cubic meter of production
Oil and grease	100	20.5
Copper	5	0.62
Chromium	4	0.41
Arsenic	4	0.41

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.085 Pretreatment standards for new sources. Except as provided in s. NR 211.13, any new source subject to this subchapter shall comply with ch. NR 211 and may not introduce process wastewater pollutants into a POTW.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter IX – Wet Storage Subcategory

NR 297.09 Applicability; description of the wet storage subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from the storage of unprocessed wood, such as logs or roundwood before or after removal of bark, in self contained bodies of water, such as mill ponds or log ponds, or the storage of logs or roundwood on land during which water is sprayed or deposited intentionally on the logs.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.091 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT. Debris may not be discharged and the pH shall be within the range of 6.0 to 9.0.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.092 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT. Debris may not be discharged and the pH shall be within the range of 6.0 to 9.0.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.093 New source performance standards. Any new source subject to this subchapter may not discharge debris and the pH of the discharge shall be within the range of 6.0 to 9.0.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.094 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.095 Pretreatment standards for new sources. Any new source subject to this subchapter which intro-

duces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter X – Log Washing Subcategory

NR 297.10 Applicability; description of the log washing subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from log washing processes in which water under pressure is applied to logs to remove foreign material from the log's surface before further processing.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.101 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing BPT. The total suspended solids concentration may not be greater than 50 mg/l and the pH shall be within the range of 6.0 to 9.0.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.102 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.103 New source performance standards. Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.104 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.105 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XI – Sawmills and Planing Mills Subcategory

NR 297.11 Applicability; description of the sawmills and planing mills subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from timber products processing procedures which include any or all of the following operations: bark removal other than hydraulic barking, sawing, resawing, edging, trimming, planing, and machining.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.111 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into navigable waters.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.112 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32,

any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.113 New source performance standards.

Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.114 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.115 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XII – Finishing Subcategory

NR 297.12 Applicability; description of the finishing subcategory. This subcategory applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from the drying, planing, dipping, staining, end coating, moisture proofing, fabrication, and byproduct utilization timber processing operations not otherwise covered by specific limitations and standards.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.121 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.122 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.123 New source performance standards. Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.124 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.125 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XIII – Particleboard Manufacturing Subcategory

NR 297.13 Applicability; description of the particleboard manufacturing subcategory. This subcategory applies to the discharge of pollutants to waters of the state and the

introduction of pollutants into POTWs from any plant which manufactures particleboard.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.131 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.132 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.133 New source performance standards. Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.134 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.135 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XIV – Insulation Board Subcategory

NR 297.14 Applicability; description of the insulation board subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from plants which produce insulation board using wood as the primary raw material. This subcategory does not apply if bagasse is the primary raw material.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.141 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the degree of effluent reduction attainable by application of BPT:

Table 9
Insulation Board
BPT Effluent Limitations

Pollutant or pollutant property	Average of daily values for 30 consecutive days	
	Maximum for any 1 day	
BOD ₅	8.13	4.32
TSS	5.69	2.72
pH	(1)	(1)

(1) Within the range of 6.0 to 9.0 at all times

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.143 New source performance standards.

Any new source subject to this subchapter may not discharge process wastewater pollutants into waters of the state.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.144 Pretreatment standards for existing sources. Any existing source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.145 Pretreatment standards for new sources. Any new source subject to this subchapter which introduces pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XV – Wood Furniture and Fixture Production Without Water Wash Spray Booths or Without Laundry Facilities Subcategory

NR 297.15 Applicability; description of the wood furniture and fixture production without water wash spray booths or without laundry facilities subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from the manufacture of wood furniture and fixtures at establishments which do not utilize water wash spray booths to collect and contain overspray from the spray application of finishing materials and which do not utilize on-site laundry facilities for fabric utilized in the various finishing operations.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.151 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.152 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.153 New source performance standards.

Any new source subject to this subchapter may not discharge process wastewater pollutants.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.154 Pretreatment standards for new sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.155 Pretreatment standards for existing sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Subchapter XVI – Wood Furniture and Fixture Production With Water Wash Spray Booths or With Laundry Facilities Subcategory

NR 297.16 Applicability; description of the wood furniture and fixture production with water wash spray booths or with laundry facilities subcategory. This subchapter applies to the discharge of pollutants to waters of the state and the introduction of pollutants into POTWs from the manufacture of wood furniture and fixtures at establishments which either utilize water wash spray booths to collect and contain overspray from the spray application of finishing materials or utilize on-site laundry facilities for fabric utilized in the various finishing operations.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.161 Effluent limitations representing the degree of effluent reduction attainable by the application of the best practicable control technology currently available. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter shall achieve the following effluent limitations representing the application of BPT. Settleable solids shall be less than or equal to 0.2 ml/l and the pH shall be between 6.0 and 9.0 at all times.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.162 Effluent limitations representing the degree of effluent reduction attainable by the application of the best available technology economically achievable. Except as provided in 40 CFR 125.30 to 125.32, any existing point source subject to this subchapter may not discharge process wastewater pollutants.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.163 New source performance standards.

Any new source subject to this subchapter may not discharge process wastewater pollutants.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.164 Pretreatment standards for new sources. Any existing source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

NR 297.165 Pretreatment standards for existing sources. Any new source subject to this subchapter which introduces process wastewater pollutants into a POTW shall comply with ch. NR 211.

History: Cr. Register, April, 1989, No. 400, eff. 5-1-89.

Note: The Wisconsin administrative code corresponds to the code of federal regulations as cross referenced in the following table:

State Code	Corresponding Federal Regulation
NR 205.03	40 CFR 401.11
NR 205.04	40 CFR 401.11
ch. NR 211	40 CFR part 403
NR 211.03	40 CFR 403.3
NR 211.13	40 CFR 403.7
NR 211.14	40 CFR 403.13
ch. NR 297	40 CFR part 429