

Arkansas Department of Pollution Control and Ecology
Division of Air Pollution Control

Summary Report Relative to Permit Application

Submitted By: Nekoosa Papers Inc.
Ashdown (Little River County)

CSN:410002 Permit No.:287-AR-4 Date Issued: 3 /24 /87

Submittals: May 12, 1986; October 13, 1986; January 22, 1987

Summary

Nekoosa Paper Incorporated, operates a pulp and paper mill located near Ashdown. This mill has a number of air emission points which are covered by permit 287-AR-3. Nekoosa has requested that this permit be modified by replacing the #1 Package Boiler with a new package boiler of the same size and similar design. This new boiler will be called the #3 Package Boiler.

The #3 Package Boiler will have a maximum heat input capacity of 160 million BTU's per hour (115,000 pounds of steam). The #3 will have the capability to burn distillate oil during periods of natural gas curtailment.

The #3 Package Boiler will be subject to Subpart Db of the standards of Performance for New Stationary Sources: Industrial-Commercial-Institutional Steam Generating Units because it was built after June 19, 1984. Among other things, Subpart Db imposes a NOx emission limit of 0.1 lb/mmBTU, requires compliance testing, and requires continuous monitoring of NOx emissions.

Installation: installed	Operation: operating
Reviewed By: Mike Porta	Approved By: Wilson Tolefree
Applicable Regulation: Air Code	SIP NSPS PSD

Specific Conditions

1. The permittee shall comply with the emission limitations listed in Table I.
2. Except as provided under specific condition 3, the #3 package boiler shall burn pipeline quality natural gas with a heat input no greater than 160 million BTU per hour; the #2 package boiler shall burn pipeline quality natural gas with a heat input no greater than 210 million BTU per hour.
3. During periods of natural gas curtailment, both package boilers will be allowed to burn #6 oil provided the heat input to each boiler does not exceed the limits specified in specific condition 2. The #1 power boiler shall also be allowed to burn #6 oil during periods of natural gas curtailment.
4. Except when otherwise specified, the following test methods, found in 40 CFR Part 60 Appendix A, are to be used for any (and all) testing required by this permit:

Method 5	--	Total Suspended Particulate
Method 6 or 6a	--	Sulfur Dioxide
Method 7	--	Nitrogen Oxide
Method 9	--	Opacity
Method 16 or 16a	--	Total Reduced Sulfur

5. Nekoosa install and/or operate the following continuous emission monitors (CEM):

# 2 Recovery Boiler	--	Total Reduced Sulfur, Oxygen, and Opacity
# 2 Power Boiler	--	Sulfur Dioxide, Nitrogen Oxides, and Oxygen
# 2 Lime Kiln	--	Total Reduced Sulfur
# 3 Package Boiler	--	Nitrogen Oxides

The performance specifications which the monitors are required to meet (PS 1, 2, 3, and 5) are found in 40 CFR Part 60 Appendix B. CEM shall be installed within 180 days of the date of issuance of this permit on those sources required by this condition to have CEM for the first time.

6. In accordance with Section 8(e) of the Regulations of the Arkansas Plan of Implementation for Air Pollution Control, the opacity limit of the #2 recovery boiler is 20%. The Standards of Performance for New Stationary Sources

requires Nekoosa to submit, on a quarterly basis, a list of all six minute average opacities that exceed 35%. It is not the intent of this permit to change either requirement.

7. During the operation of the #2 Power Boiler the pressure drop across the scrubber shall be maintained at or above 14 inches of water; the liquid flow to the scrubber shall be maintained at or above 1500 gallons per minute.
8. The #3 Package Boiler shall comply fully with all applicable requirements of 40 CFR, Part 60, Subpart Db (Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units).
9. Within 180 days of the issuance of this permit, Nekoosa shall submit an approval quality assurance plan for all of the continuous emission monitors located at their Ashdown Facility. The plan should consist of procedures and practices to ensure an adequate level of monitor data accuracy, precision, and availability.

TABLE I
ALLOWABLE EMISSION RATES

SOURCE	POLLUTANT	EMISSION RATE	OPACITY
#2 Power Boiler	TSP	82. lb/hr	0.1 lb/mmBTU
	SO2	983. lb/hr	1.2 lb/mmBTU
	NOx	574. lb/hr	0.7 lb/mmBTU
#2 Recover Boiler	TSP	84.4 lb/hr	0.044 gr/dscf
	SO2	286. lb/hr	250 ppm
	TRS	7.4 lb/hr	5 ppm
#2 Smelt Dissolving Tanks (Both)	TSP	18. lb/hr	0.2 lb/Ton BLS
	SO2	10.6 lb/hr	----
	TRS	2.1 lb/hr	0.0084 g/kg BLS BLS--Black Liquor Solids
#2 Lime Kiln	TSP	51. lb/hr	0.067 gr/dscf
	SO2	16.7 lb/hr	----
	TRS	8. lb/hr	8 ppm
#3 Package Boiler	TSP	0.5 lb/hr	160 mmBTU/hr
	SO2	0.1 lb/hr	Maximum Heat Input
	NOx	16. lb/hr	0.1 lb/mmBTU
#2 Package Boiler	TSP	0.6 lb/hr	210 mmBTU/hr
	SO2	0.2 lb/hr	Maximum Heat Input
	NOx	27.4 lb/hr	
#1 Recovery Boiler	TSP	400. lb/hr	
	SO2	196. lb/hr	
	TRS*	23.4 lb/hr	40 ppm
#1 Smelt Tank	TSP	40. lb/hr	
	SO2	4.0 lb/hr	
	TRS*	4.3 lb/hr	0.0084 g/kg BLS
#1 Power Boiler	TSP	300. lb/hr	

* These emission limits do not take effect until the compliance date specified in the TRS III(d) plan.

TABLE II
NSPS SOURCES
AND APPLICABLE SUBPARTS

Source	Applicable NSPS Subpart
#2 Power Boiler	Subpart D
#2 Recovery Boiler	Subpart BB
#2 Smelt Dissolving Tanks	Subpart BB
#2 Lime Kiln	Subpart BB
#3 Package Boiler	Subpart Db