

DEPARTMENT OF POLLUTION CONTROL AND ECOLOGY  
DIVISION OF AIR POLLUTION CONTROL

SUMMARY REPORT RELATIVE TO PERMIT APPLICATION

SUBMITTED BY: Nekoosa Papers Inc.  
Ashdown

CSN: 410002

FIRST SUBMITTAL: 12/10/74 AMENDED: 01/04/78

CASE REFERENCES: \_\_\_\_\_

SUMMARY:

Nekoosa Papers Inc. of Ashdown proposes to expand pulping capacity at the Ashdown Mill by 735 air dry tons per day (ADTPD) to a total of 1300 ADTPD of bleached kraft pulp.

New facilities which require air pollution control equipment are as follows:

(1) No. 2 recovery boiler. Peak process weight rate is 3,500,000 pounds per day, pulp production equivalent is 1094 ADTPD. Particulate emissions will be controlled by a high efficiency electrostatic precipitator to 84.4 pounds per hour. Predicted SO<sub>2</sub> emission rate is 445 pounds per hour. Total reduced sulfur (TRS) emissions will be controlled by black liquor oxidation to the proposed New Source Performance Standard (NSPS) of 5 parts per million (ppm). The stack height of 336 feet will prevent downwash.

(2) New lime kiln. Process weight rate of 440 tons per day of product is equivalent to a pulp production rate of 1600 ADTPD. Emissions will be controlled by a Venturi scrubber to 51 pounds per hour of particulates, 16.7 pounds per hour of SO<sub>2</sub>. The installation of the new lime kiln will allow the existing lime kiln to be shut down. Total reduced sulfur emissions will meet the proposed NSPS of 5 ppm.

(3) No. 2 smelt dissolving tank. Discharge will be through 2 vents at a height of 295 feet. Emissions will be controlled by a low energy scrubber to 7.3 pounds per hour of particulates and 5.2 pounds per hour of SO<sub>2</sub> per stack; TRS emissions will meet the proposed NSPS of 0.50 pounds per ton air dry pulp (TADP). See Attachment.

ESTIMATED COST: \$10,000,000 TOTAL PROJECT: \$245,000,000

COMMENCEMENT OF INSTALLATION: April, 1978

COMMENCEMENT OF OPERATION: December, 1979

REVIEWED BY: IHB, STC APPROVED BY: JAM

RECOMMENDATION: APPROVAL WITH QUALIFICATION

ASSIGNED PERMIT NUMBER: 287-A(MODIFICATION) 287-AR-1

COMMISSION MINUTE ORDER NUMBER: \_\_\_\_\_

NEKOOSA PAPERS INC.  
PERMIT NO. 287-A (MODIFICATION)

-CONTINUED-

(4) New continuous digester, continuous diffuser washing system, and multiple effect evaporator. TRS emissions will be controlled by incineration in the lime kiln.

Dispersion modeling has predicted compliance with the Arkansas Air Pollution Control Code standards for SO<sub>2</sub> and total suspended particulates (TSP). Modeling of the new sources for comparison with Prevention of Significant Deterioration (PSD) increments for Class II areas has shown that increases in concentration will not exceed 5% of the 3-hour increment for SO<sub>2</sub>, 4% of the 24-hour increment for SO<sub>2</sub> and, 2% of the 24-hour increment for TSP, at downwind distances of less than 1.5 km. Concentration increases are less than 1% of the annual TSP and SO<sub>2</sub> increments.

The U.S.E.P.A. has issued preliminary PSD approval of this installation.

QUALIFICATION:

In accordance with the emissions testing requirements of the NSPS, within 180 days after startup, emissions testing shall be performed on the No. 2 recovery boiler, new lime kiln, No. 2 smelt dissolving tank, and the existing combination power boiler to demonstrate compliance with all applicable federal and state emission limitations.