

CASE HISTORY 11 — LANPAC®

\$400,000/Year White Liquor Savings at Louisiana Pulp Mill

Louisiana Kraft mill switches from 2" Intalox saddles to LANPAC 3.5"; scrubber efficiency rises from 45% to 98% and stays there.

APPLICATION

Cl₂/ClO₂ scrubbers, Kraft pulp mill

PREVIOUS PACKING

2" Intalox saddles

GAS FLOW INCREASE

40%+ above previous operating rate

◆ THE PROBLEM

A major pulp mill in Louisiana, operated by one of the world's largest paper companies, was experiencing serious operating problems with its Cl₂/ClO₂ scrubbers. Gas flows had increased to the scrubbers, impairing performance. All scrubbers in the system were near flooding, and removal efficiency had fallen to only 45% — far below the mill's requirements for effective white liquor recovery. Recovered white liquor has direct cash value: it reduces lime makeup requirements and improves overall pulping yield.

A tiger team was formed to address the problem. The team determined that the scrubbers were in good condition but that the installed packing — 2" Intalox saddles — was not meeting removal efficiency requirements and needed to be replaced.

Through years of continuous operation, the system averaging 98% removal efficiency and more than \$400,000 per year in white liquor savings — compared to 45% efficiency with Intalox saddles.

◆ WHY LANPAC WAS SELECTED

Several companies were contacted to propose solutions. They were told that the gas system would be monitored carefully and that removal efficiency of the packing would have to be guaranteed by the successful bidder. Lantec was the only company to offer a performance guarantee for scrubber efficiency, and was subsequently selected for the project.

◆ MEETING THE REQUIREMENTS

Through years of continuous operation, the system utilizing 3.5" LANPAC averaged 98% removal efficiency — more than double the 45% achieved with Intalox saddles. Plugging problems were reduced significantly, gas flow

PRODUCT

LANPAC

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ANNUAL SAVINGS

\$400K / yr

White liquor recovered from scrubber gas stream; savings from reduced lime consumption and improved process yield

SCRUBBER EFFICIENCY

Intalox saddles vs. LANPAC in continuous operation

45%

removal ·
Intalox
saddles

98%

removal ·
LANPAC

APPLICATION CONTEXT

Kraft pulp

Cl₂/ClO₂ scrubbing

White liquor recovery

Performance guarantee

increased more than 40% above the previous operating rate, and savings in white liquor costs reached more than \$400,000 per year.



2.3" Lanpac and 3.5" Lanpac

The mill's success with Lantec resulted in a conversion of all of their tower packings to 3.5" LANPAC.

NOTE

Lantec was the only vendor to offer a performance guarantee — and was selected on that basis.