

PRODUCTS AT WORK

V E R T I C A L W E T S C R U B B E R S Y S T E M

Beta NOx 2000™ Scrubber and Ventilation System Controls Industrial Wastewater Odors

Background

Heritage Environmental, an Indianapolis, Indiana firm specializing in treatment and reclamation of industrial wastewater from steel mills and other industrial processors, wanted to upgrade their facility with a new scrubbing and ventilation system.

The Site Engineer, Lab Manager, and Facility Managers specified a wet scrubber with the capability to ventilate and scrub 14 various process and storage tanks. The potential pollutants were: NOx, inorganic alkalies/acids, H₂S, NH₃ and lime dust.

Results

Duall personnel visited the facility prior to submitting a proposal to perform a complete site measure. A total turn-key multi-stage equipment package complete with installation was proposed.

Stage 1 of the system would handle a 6800 CFM flow containing NOx, inorganic acids, alkalies and H₂S. Stage 2 would treat the residual 6800 CFM

from Stage 1 plus an additional 5200 CFM flow laden with NH₃, which if allowed to combine in Stage 1 would cause an aerosol plume. An innovative point source control of lime dust utilized wetted stainless steel Duall Mist Misers at two process tanks to minimize duct cleaning of lime feed materials which plagued the operators in the past.

Plant Engineer, Alex Burnett said "Duall was chosen over their competitors due to their attention to details, the completeness of their proposed work, and their dedication to successful project completion."

Present Status

The new system is successfully treating the process effluents and ventilation in the plant is dramatically improved. This system has been in continuous operation since May, 1999.



Application: NOx, H₂S and NH₃ Odors

End User: Heritage Environmental

Process: Industrial Wastewater Treatment

Reference: 1186-98

Multi-stage Beta NOx 2000™ System
with Duall NH49 Class IV, 12,000
ACFM @ 14" w.c. PUC Exhaust Fan



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