CECO ENVIRONMENTAL

Case Study
Paper Mill
Safe, Efficient and Clean



32% Safe and reliable Urea SCR system



CECO design to minimize impact to existing equipment and plant operations while allowing the customer to safely meet new emissions standards.

"We specialize in solving problems through experienced engineering. Our team collaborates with the customer to ensure minimal impact to existing operations," CECO Environmental Team.

The Situation
A paper mill in New England expanded their facility to increase their production which required them to improve and lower overall emissions.

The Challenge
Single-digit emissions were required by regulations. The customer's existing ultra-low-NOx burner (ULNB) did not work well, especially at part load where the mill desired to operate for optimum production. The customer was concerned about the safety, reliability and overall operation of the ULNB requiring plant personnel to regularly monitor. Finally, the customer desired to reduce costs and reporting requirements associated with ammonia reagent.

The Solution
Install an SCR system into the existing system, optimize the combustion system, and convert to a safe urea reagent system. CECO and our local representative, BMR Thermal, worked closely with the customer to ensure the retrofit system would meet all the needs of the customer and meet overall emissions for all range of production.

The CECO Advantage
CECO Peerless team of engineers is emissions control and combustion experts specializing in retrofitting existing equipment. We use computational fluid dynamics (CFD) for optimal performance.

The Operational Results
- Value 1: Efficient Emissions at wide range of production rates
- Value 2: Safer combustion and safer urea storage system reducing cost/paperwork
- Value 3: Improved plant operations at wider load ranges
- Value 4: Low operating costs with small footprint

The Environmental and Safety Benefits
- Ultra-Low Emissions achieved
- Safer operations for plant personnel
- Minimal parasitic load

Industry
Pulp and Paper

Location
New England

CECO Solutions Used
SCR system design
Low exhaust gas temperature catalysts
Safe Urea reagent storage, and delivery
Patented Direct Injection technology

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