

CO-GENERATION POWER PLANT RAND-WHITNEY CONTAINERBOARD MILL

Montville, Connecticut

CLIENT:

Rand-Whitney Containerboard
Montville, Connecticut

PROJECT FEATURES:

- New, 15 MW co-generation power plant to increase efficiency at the paper mill
- ARI served as the consultant for fast-tracking the permitting of the project in order to secure co-generation tax credits.
- Assessed Best Available Control Technology (BACT)
- Performed extensive modeling of air quality impacts
- Negotiated permit conditions that preserved maximum operating flexibility for the mill.



We developed a strategy to fast-track the permitting of the cogeneration plant, based on a generic design, rather than waiting until after equipment selection to begin permitting. This increased the likelihood that the plant can be constructed by the statutory date needed to qualify for tax credits.

Rand-Whitney Containerboard produces linerboard from 100% recycled, corrugated cardboard. To improve the mill's efficiency, Rand-Whitney is installing a new co-generation plant to meet both its electric power and steam needs. The co-generation plant will consist of a 15 MW dual-fueled combustion turbine to produce electricity, and a Heat Recovery Steam Generator (HRSG) with duct burner to generate steam. Nitrogen-oxides emissions will be controlled with Selective Catalytic Reduction (SCR).

ARI assessed Best Available Control Technology (BACT) and conducted extensive air-quality impact modeling. A key aspect of the BACT analysis was to convince the regulators that a CO catalyst is unwarranted as an emission control, because it would not be cost-effective. Finally, ARI was responsible for negotiating permit conditions with the regulatory agency that would preserve maximum operating flexibility for the Rand-Whitney mill (e.g., true dual-fueling capability).

ARI was responsible for securing the air quality permits needed to construct and operate the facility.

PROJECT REFERENCE:

Mr. Paul Schaffman
Senior Environmental Engineer
Rand-Whitney Containerboard
319 Maple Ave.
Montville, CT 06353

860/848-1900 x51134

Corporate Headquarters
1732 Main Street
Concord, MA 01742
Tel. (978) 371-2054
Fax (978) 371-7269

 **ARI**
Alternative Resources, Inc.