



Service/Product Provider

Nalco Company

1601 W. Diehl Road
Naperville, IL 60563

Business: Water, Energy & Air Service/Product

William Walsh

Key Account Manager

Phone: 630-305-1428

Email: wwalsh@nalco.com

Industrial Partner

Nissan North America, Inc.

983 Nissan Drive
Smyrna, TN 37167

Business: Automotive Manufacturing

Chris Goddard

Utilities Engineer

Phone: 615-459-1633

Email: Chris.Goddard@nmm.nissan-usa.com

Nalco cleans air coils and saves assembly plant \$59,000 per year in energy costs

Project Scope

Nalco used a patented coil cleaning process to clean air coils in an HVAC system at a Nissan plant.

Project Summary

Nalco cleaned 15 air coils in one area of the painting operation and one administration air coil by flushing the systems with Nalco product to remove deposits. This patented cleaning process improved coil heat transfer efficiency and reduced fan energy requirements to operate the system.

- **Energy Savings**
\$59,800 in annual electrical savings
- **Investment**
\$18,300
- **Financial Return**
3.3 months
- **Other Benefits**
Improved air balancing and conditioning control in the paint booth area, and reduced CO₂ emissions

Monitoring & Verifying Energy Savings

Energy savings were determined by comparing performance of the coils measured both prior to and after the cleaning. Energy savings also reflected the reduction in necessary fan power due to well-maintained coils.

Distinguishing Value

A patented cleaning process was employed to reduce maintenance time and minimize interference with plant processes. The project was completed during non-production hours, eliminating any negative impact on production.