

# Energy Infrastructure

## Goodrich Aerostructures Division

Chula Vista, California

*Operating Fuel: Natural Gas/Diesel*

*Electric Capacity: 11 MW*

*Contract value: \$23 million*

*In Service Date: 2002*



NORESCO commissioned and is operating this 11 MW cogeneration system that provides electricity and hot water for the Goodrich Aerostructures Division. NORESKO also played key project roles in EPC negotiation and management, as well as development of long-term arrangements for the provision of natural gas.

Through our 10-year Operations and Maintenance agreement, NORESKO manages all day-to-day operations including, equipment operations and condition, quality and chemistry of service water, fuel and other feed streams, maintenance of logs and reporting of operating data. NORESKO is also responsible for planning and undertaking all maintenance, repairs, and major rebuilds as well as procurement of liquid fuel and natural gas.

This project has three distinct areas: a cogeneration building, separate equipment pad, and a piping system used for transporting thermal energy. The cogeneration system utilizes reciprocating engines to generate electricity and hot water for use at the

Goodrich facility via three Fairbanks Morse, 12-cylinder, opposed piston, dual-fuel reciprocating engine/generators.

The plant employs the best available control technology to limit emissions, including selective catalytic reduction (SCR) to control NO, and an oxidizing catalyst to control CO. The plant also employs state of the art sound control to limit noise impact on the surrounding area.

All equipment is networked to a supervisory control system consisting of a programmable logic controller (PLC), a control room operator workstation, and a control room engineering workstation. The system is integrated with NORESKO's centralized reliability, maintenance and operations programs and all control and information signals can be monitored on-line through NORESKO's secure web-based Operations Center.

NORESCO is the nation's most experienced energy service company providing comprehensive and proven energy-efficiency solutions and infrastructure development and operations strategies to a wide range of customers. A recognized industry leader installing and operating over \$1.4 billion of proven energy solutions in diverse markets across the nation, NORESKO has built on-site energy infrastructure generating more than 300 megawatts of power, and has helped customers improve energy efficiency saving over 31 billion-kilowatt hours of electricity and 71 trillion Btus of fuel.



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