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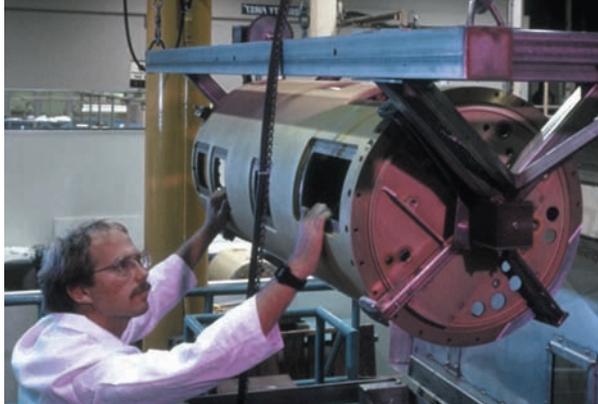
Building Technologies

SSC SD realizes
significant savings with
Siemens Solutions



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San Diego, Calif. — The Space and Naval Warfare Systems Center in San Diego (SSC SD) develops technology to collect, transmit, process, display and, most critically, manage information essential to naval operations. The SSC SD Building One Bayside, a 150,000 square-foot facility, houses research labs, along with engineering and office space.

Client Objectives

Reduce energy and operating costs, while maintaining optimum occupant comfort and air quality.

Siemens Solutions

- Siemens Building Technologies, Inc. performed an energy usage analysis and mechanical evaluation of the building's equipment to identify opportunities for reducing energy and operating costs.
- Siemens replaced the 25-year-old pneumatic control system with the APOGEE® building automation system, integrating the air handlers, the chilled and hot water plants, and the compressed air system.
- Siemens retrofitted the building's HVAC equipment, which included installing variable frequency drives on the cooling tower fans, converting constant volume air handling units

to variable air volume operation, and implementing an enthalpy and CO₂-based economizer control strategy to improve energy efficiency, reduce maintenance costs and provide better indoor air quality.

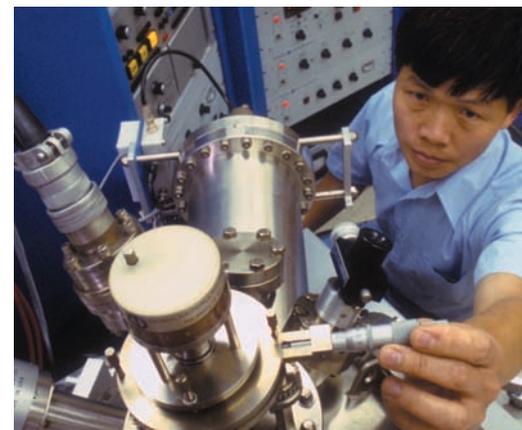
- The APOGEE system provides pinpoint control and information at the facility staff's fingertips so they can monitor, trend and optimize their building systems.
- Siemens implemented an enthalpy and CO₂-based control strategy to improve energy efficiency, reduce maintenance costs and provide better indoor air quality.

“The Siemens team has gone out of its way to ensure that this project meets all of our goals and objectives and thus far, it has exceeded them.”

Supervisor – SSC SD

Client Results

- The annual energy savings of \$259,000 is a 20 percent reduction in the overall energy costs for the building.
- SSC SD can now monitor, trend and optimize its building systems to achieve the greatest energy savings.
- The facilities staff can quickly and easily troubleshoot via the APOGEE system on a workstation rather than having to physically locate the problem, saving staff time and money.
- Achieved and maintained optimum indoor temperatures and increased occupant comfort.
- Significantly reduced temperature-related complaint calls.
- A 25-30 CFM (Cubic Feet per Minute) of fresh air per person was achieved with the control strategies.



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