

Warner Robins Air Logistics Center Strives for Energy Efficiency

Warner Robins Air Force Base (WRAFB) is a major military site located just east of the city of Warner Robins, Georgia. WRAFB is the home of several major units, including the Warner Robins Air Logistics Center (WRALC), the 78th Air Base Wing, the 330th Aircraft Sustainment Wing and the 402nd Maintenance Wing.

“This project is another example of how we continue to serve WRALC with our expertise and knowledge.”

To accelerate compliance with both federal laws and executive orders, the 402nd Maintenance Wing needed to analyze its energy consumption and find ways to reduce it. Working with EMC Engineers, McKenney's began a study in November 2010 and will continue the analysis into the summer of 2011. Final analysis will allow the 402nd Maintenance Wing to identify and document alternative energy systems that reduce consumption of fossil fuels, steam, gas and water; minimize net greenhouse gas emissions; increase renewable energy use; and cut expenses.

The scope of the project includes a retro-commissioning audit for HVAC systems in the paint/depaint facilities, which includes

six buildings covering more than 450,000 square feet. The purpose of the audit is to document equipment, controls status and operational practices that do not comply with current requirements, as well as system deficits and energy impact. The final report will include repair/replacement recommendations and estimated costs. Although this is not a LEED® project, it is a strong first step toward implementing an Energy Management Program in these facilities.

The challenges of this project are numerous. Many of these facilities were not commissioned when they were built, and have endured significant changes and/or re-purposing over the years. When painting operations are underway, access is restricted due to environmental and other safety concerns. Plus, these operations are on very tight schedules with very little downtime. In other words, the facilities are available for field data collection and manipulation of the controls only in very small windows.

McKenney's received facility production schedules in advance and the analysis teams are working odd hours and off shifts to take advantage of every available time slot. However, when production schedules change, the Energy Services team works closely with many parties at the base to resolve issues.

Project Team

- General Contractor: EMC Engineers (Eaton)
- Owner: Warner Robins Air Logistics Center, 402nd Maintenance Wing

The Challenge

- Audit HVAC systems efficiency in six paint/depaint facilities
- Evaluate multiple layers of original and outdated HVAC systems
- Perform work within very tight scheduling windows

The Solution

- Document current state of systems and equipment
- Identify system deficits and energy impact
- Develop repair/replace recommendations

The Results (Future)

- Reduced energy consumption
- Minimized net greenhouse gas emissions
- Lower total costs

“This project is another example of how we continue to serve WRALC with our expertise and knowledge” said McKenney's Director of Government Facilities. “We look forward to sharing our energy savings recommendations and to supporting efforts to meet federal energy mandates at Warner Robins Air Logistics Center.”

The information contained here is not intended as an Air Force endorsement.

For more information contact McKenney's at 404-622-5000.

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