

Honeywell Federal Team Wins Largest DOD Energy Retrofit Project In History

Tinker Air Force Base, OK, part of the U.S. Air Force Materiel Command, awarded in July 2012, Honeywell an \$80.6M, 20-year energy savings performance contract (ESPC) to upgrade and optimize heating technology and controls for 71 buildings, representing 9.4-million square feet of space, among other improvements. This is the largest energy-focused retrofit project undertaken at any U.S. Department of Defense (DOD) site, and it builds on \$9.4M in upgrades Honeywell completed at the base in 2010, work that was also funded through an ESPC.



As part of the new, \$80.6M project, Honeywell will decentralize and decommission three central steam plants (CSPs) at Tinker, and downsize and optimize a fourth CSP. Other means of heating will be provided at each of the buildings removed from the steam grids, 56 facilities in total, which will require installing more than four miles of the natural gas piping, approximately 130 packaged hot-water and steam boilers, as well as a variety of infrared and direct-fired gas heaters. Honeywell will maintain steam traps at the 15 facilities that stay on the grids and be served by the remaining CSP.

In addition, Honeywell will install advanced gas and E-Mon electric meters to measure the natural gas and electricity that each of the buildings and key subsystems consume — more than 4,000 energy points in all. Honeywell Enterprise Buildings Integrator (EBI) and Energy Manager, which were installed during the first phase of upgrades, will aggregate and analyze the data, and help pinpoint opportunities for future improvements. We'll provide a new energy dashboard that will facilitate automatic measurement and verification (M&V), and give base leadership better visibility into the energy performance of the buildings included in both existing and upcoming projects.

Throughout construction and the 20-year term of the contract, Honeywell is also responsible for operation all new boilers, and maintaining and repairing any other piece of equipment installed. We'll have a full-time Technical Resource Manager (TRM) at the base too, and perform ongoing M&V to validate project savings. All of this work will be completed under a \$1.5M annual service contract.