

Naval Air Station

Energy Savings Performance Contract (ESPC)



Officials from the Navy Public Works Center needed to bring “Steam Plant A” on line: the nerve center for a new base-wide steam system designed to provide significant energy savings for NAS Jacksonville. RWE Clean Energy was chosen for the project due to its deep expertise in energy services.

Steam Plant A is the largest of several plants in the state-of-the-art “nodal system” which will ultimately replace the stations’ WWII era steam infrastructure. The \$11.2 million contract for the new system was awarded in September 1999 and the system came on line well ahead of schedule. Three of the six plants for the system were operational before December, 2000. The remaining three a went on line in December, 2000.

According to Lee Merrill, utilities manager, “By going on line ahead of schedule, PWC JAX estimates that more than \$200,000 a month has been saved. This is realized from the elimination of the rental contract for the station’s old central steam plant and from savings resulting from the new, more efficient system.”

The partnership between the Navy and RWE Clean Energy subsidiary, BGA, Inc., resulted in innovative approaches from the very beginning, including how the project was financed. The Navy made an initial down payment of \$1.2 million, with the remainder to be paid from the cost savings realized from the project over the next 10 years.

The system includes six plants strategically located across the station (four new and two existing but reconfigured) near high consumption activities. The system is operated by a state-of-the-art Direct Digital Control System. Each of the plants are designed to support the needs of their specific nodal areas, but are capable of taking on much larger capacity, if necessary, which adds significant advantage from the standpoint of system flexibility.



PROJECT DATA

LOCATION

Jacksonville, FL

CONSTRUCTION DATES

Completed September 2000

CAPITAL COSTS

\$11,200,000

ANNUAL SAVINGS

\$1,136,000

“The station has been provided steam by the new system since September, 2000, four months ahead of its original projected completion date of January 2001.”

Lee Merrill
Utilities Manager