



CASE STUDY severe service

MAKING THINGS RIGHT IN FLORIDA

Customer – Florida Power & Light

Site - Manatee, FL USA

Requirement – After several years of debugging the valves on the 1,100 MWe gas fired combined cycle gas turbines in Manatee Florida, CCI was called in to evaluate what could be done to resolve the issues of cracking, sticking and downstream damage to the system.

Solution - After a thorough analysis of the operating characteristics it was found that the competitors design had several short comings that required a replacement of the hot reheat turbine bypass valves and actuators. To improve the system performance, magnetite strainers and warming lines were installed on the new 16in x 24in DAMD-D valve. In order to further enhance the plants performance, the new QuickTrak III actuator was incorporated to enable faster and more repeatable shutoff and control. All of these changes have resulted in FP&L saving over \$1 million in avoided forced outages; which were previously occurring with the original equipment. “We had a technical challenge making our equipment fit the needs of the customer” said account manager Erik Todd, “and I’m proud of the CCI team which helped to pull this solution together and deliver a quality product for the Manatee station.”

