



HPI Pump Modifications

MPR Creates First-Of-A-Kind Pump Modification, Saving Millions of Dollars

CHALLENGE

Davis-Besse HPI pump modifications to increase tolerance to operation with debris-laden water.

SOLUTION

MPR managed, designed, procured, qualified, tested, and installed modifications to the existing pumps to ensure reliable performance in debris laden water service. The qualification program designed and implemented by MPR included separate effects testing of pump component mock-ups, analytical modeling of the modified pump rotordynamic and hydraulic performance, and in-situ testing of the pumps to validate analytical models.

RESULTS

MPR qualification of the Tricon is considered the prototype of how to properly perform digital equipment qualification.

