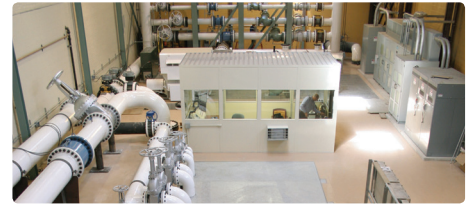


PUMP Test REPORT

PROVEN RESULTS FOR ENGINEERED UPGRADES

OCTOBER 2015

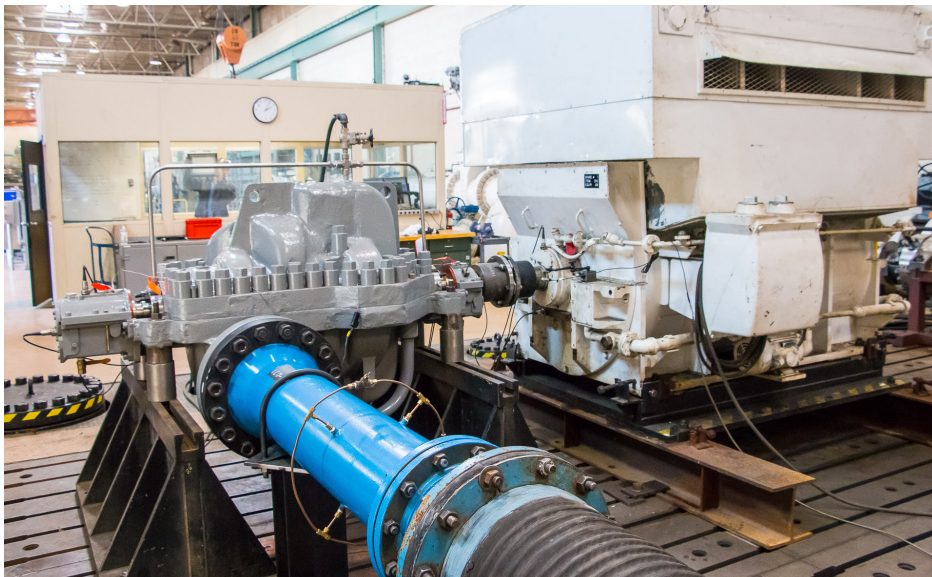


Impeller Modification Validation Test

Hydro's Test Lab worked with Hydro Scotford, Hydro's Canadian service center located in Fort Saskatchewan, Canada, in order to validate the performance of the pump's hydraulics versus the theoretical design's predicted performance and against previous tests prior to an impeller modification.

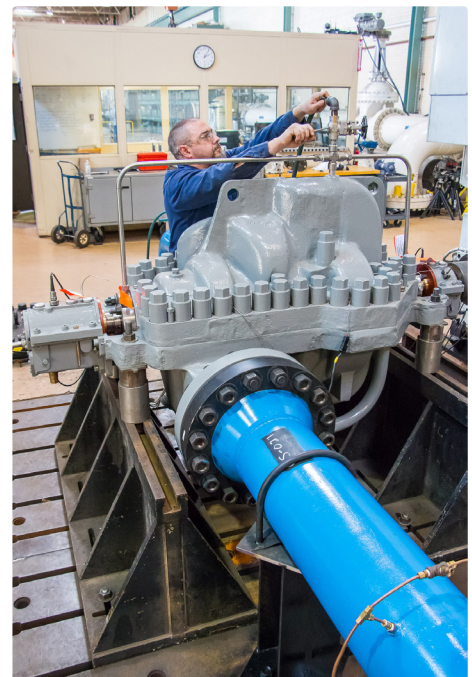
A Certified Performance Tests (CPT) was completed in order to verify improved impeller performance at the design conditions. The pump exceeded its previous performance, providing a 5.9% additional flow at the same differential pressure. In addition, vibration was within specification for the rated condition and all flows above the minimum continuous stable flow rate.

Hydro utilizes advanced hydraulic design software at its service centers to analyze and optimize a pump's hydraulic performance, enabling us to develop and test new impeller designs in a much shorter time period than previous methods allowed. With a proven track record and 40 year history, we have an extensive drawing database and library with proven reverse engineered drawings.



Testing doesn't interrupt our business. It is our business.

INDUSTRY	-
APPLICATION	-
MANUFACTURER	Bingham
TYPE	Multi-stage, Axially Split, Between Bearings Pump (BB3)
MODEL	MSD-D
SIZE	8x10-13B
STAGES	3
IMP. DIA. (IN.)	-



PTR1510