

# 16NHT32-VF24 PUMPS ST. PAUL, MINNESOTA

September 2005

**S**tart-up and training for the Brown and Caldwell project in south St. Paul, Minnesota occurred during the week of September of 2005, bringing to conclusion a year long project. The order was received in April of 2004 and required a new pump design and a new bearing frame design. Four 16NHT32-VF24 pumps were designed with Johnson Power shafting, Robicon variable frequency drives and General Electric 600 rpm motors were to replace 35 year old Morris pumps - only one of which was still operational.

At the job site the VFD's were set for a 60 second ramp-up, and with both hands on the bearing frame, the pumps operated so smoothly that it was nearly impossible to tell they were even running. The new pumps were smooth, quiet and performed as designed throughout the entire operating range. The metropolitan council, city staff, general contractors, mechanical contractors and engineers were impressed with the pumps and very pleased with the start-up.

From design to shipping, this was a "textbook" Cornell project. Pride of workmanship and the willingness to work as team is a dynamic combination that sets the bar for our competition.



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