

ITT Goulds Pumps Installed in Copper Mine

An Arizona mining company and an engineering pump system expert share a mutual understanding of what is needed to improve the electrowinning process that drives the copper mine's operations, according to Mike Dwyer in the July 2008 issue of *Pumps & Systems*.

Quadna, Inc., which engineers, fabricates and services mechanical systems that move fluids and gases, was selected by Nord Copper, which operates the Johnson Camp open pit copper mine and production facility in Dragoon, Ariz., to design and build an enhanced process pumping system for solvent extraction and electrowinning. The goal was to revamp and upgrade the process pumping system for a mine that is reopening because of improved copper prices.

The team recommended the mine owner install 12 new 316SS process pumps and refurbished existing pumps to meet its production needs. The pumps recommended were ANSI end-suction centrifugal pumps.

- Two 8x10-13 ITT Goulds model 3196 ANSI pumps with 125-hp USEM electric motors complete with 316SS baseplates and 316SS priming chambers
- Two 8x10-16H ITT Goulds model 3196 ANSI pumps with 50-hp USEM electric motors complete with 316SS baseplates and 316SS priming chambers
- Two each 8x10-15 ITT Goulds model 3196 ANSI pumps with 40-hp USEM electric motors complete with 316SS baseplates and 316SS priming chambers
- Two 3x4-13 ITT Goulds model 3196 ANSI pumps with 30-hp USEM electric motors complete with baseplates
- Two 4x6-10H ITT Goulds model 3196 ANSI pumps with 10-hp USEM electric motors complete with baseplates
- Two each 8x10-16H ITT Goulds model 3196 ANSI pumps with 30-hp USEM electric motors complete with baseplates