

# CYCLONE FEED PUMP MOTOR FEASIBILITY



## CLIENT

Kennecott Utah Copper / Rio Tinto

## PROJECT DESCRIPTION

Client requested a feasibility study of eight new Cyclone Feed Pump motors, drives and electrical infrastructure at the KUC Copperton Concentrator for a conversion to 1250 HP motors and VFDs

REDD was responsible for the study, providing project management and procurement services to perform and successfully complete the study.

A +/- 10% cost estimate and various preliminary engineering and design tasks were included.

## PROJECT FEATURES

- Determined motor design/speed to drive pumps and compiled a full bid tab for motors and drives based on data sheets and requested quotes
- Developed civil layout drawings, single line drawings and drawings for electrical modifications
- Evaluated MCC heat load changes
- Worked with KUC electrical engineers to confirm the adequacy of the existing electrical system
- Developed layout drawings of MCC room to graphically demonstrate a schedule for installing the new drives and primary power feeds
- Developed a strategy to modify motor bases without requiring costly additional downtime
- Developed a detailed project Gantt chart
- Generated a 10% cost estimate

## PROJECT COMPLETION

2011

REDD was the engineering for the study, providing project management and procurement services to perform and successfully complete the study.



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