KNS FLASH FURNACE RE-LINE & '08 PLANT SHUTDOWN

Project Description

The Kalgoorlie Nickel Smelter and Concentrator (KNSC), an integral part of BHP Billiton's Nickel West division, recently completed a major re-build of its Flash Furnace. Such a major furnace rebuild only occurs, on average, once per decade. Primarily due to the recent WA gas crisis resulting from a fire on Varanus Island, KNSC brought the schedule for completion forward by more than six months. This meant that personnel had to be mobilised with short notice and much of the work was planned on the run, with little time to spare.

Project Achievements

The client was extremely happy with the services provided by Eco Connection's instrumentation and electrical technicians. The crew worked with tremendous efficiency in arduous conditions, whilst maintaining a safe work environment, eliminating or controlling safety risks and meeting deadlines for completion of project milestones. Eco Connection was praised for our attitude toward safety and quality, which was reflected in the fact that our personnel were invited to complete works that were in addition to our initial scope.

Scope of Work

Eco Connection's initial scope was to calibrate and service all balance-of-plant instrumentation, but was expanded to include:

- installation and commissioning of all furnace instrumentation and cabling (temperature, pressure, flow and lineal displacement measurements);
- repair and installation of furnace light and power circuits;
- refurbishment and re-commissioning of fume extraction system;
- assist in the installation and commissioning of a new hearth cooling system;
- safe removal of redundant equipment;
- completion of punch-list items.

PROJECT SPECS

Status	Complete
Dates	August 08 to October 08
Location	Kalgoorlie, Western Australia
Discipline	Electrical / Instrumentation
Budget	$1.4 million
Man Hours	12000
Safety Incidents	0
Environmental Incidents	0