



## SHUTDOWN FEATURE PROJECT KNS PLANT SHUTDOWN 2008

### Project Description

Due to the Western Australian gas crisis in 2008 (Varanus Island explosion), it was decided to shut the Kalgoorlie Nickel Smelter down and complete furnace reline works and other shutdown maintenance works, effectively 6 months ahead of schedule. e2O was asked to provide instrument and electrical personnel to carry out much of the I/E works on the furnace, in the acid plant, power station and oxy plants.

### Scope of Work

With less than a week's notice, e2O mobilised a crew of 18 personnel to site to carry out emergency shutdown works. We had a dedicated crew in the furnace area working around the clock to change out instrumentation, install new electrical and control systems, carry out maintenance and work with the client to complete these works in a short time frame.



We also had crews in the acid plant, power station and oxy plant for routine maintenance and calibrations. Our furnace scope of works included:

- installation and commissioning of all furnace instrumentation;
- installation and repair of furnace light and power circuits;
- refurbishment and recommissioning of the fume extraction system;
- installation and commissioning of a new hearth cooling system;
- completion of punch-list items.

### Project Achievements

BHP Billiton appreciated all aspects of the way in which we completed the works with the following key points of note:

- Management's responsiveness to a changing project;
- Our employees attitude toward safety and quality;
- Our value add initiatives in the procurement and supply process;
- The fact that we supplied our own calibration equipment that was directly compatible with its own systems.

BHPB retained our crew for 2 months after the shutdown was completed for supplementary and project completion works demonstrating their satisfaction with e2O's service. e2O have been invited back for every major shutdown since then.

## PROJECT SPECS

<b>Status</b>	Complete
<b>Dates</b>	Aug 08 –Oct 09
<b>Location</b>	Kalgoorlie WA
<b>Discipline</b>	Instrumentation / Electrical
<b>Incidents</b>	Zero Environment and Safety