



major outage success

case study value added services

ATIVO Shutdown Services delivers another great result.

- Ⓐ Zero Reportable Incidents
- Ⓐ 1700+ Safety Observations
- Ⓐ 25,000 man hours
- Ⓐ 19 day outage
- Ⓐ 140+ Crew
- Ⓐ Outcome based delivery

BHP Billiton Kwinana Nickel Refinery (KNR) completes a total plant outage approximately every three years and was looking to increase plant reliability and subsequent efficiencies with their next outage not planned until 2011, some 4 years away. The KNR March 2007 outage was one of BHP Billiton's largest maintenance activity in WA this year. They therefore needed to be very selective on their partners to protect their key asset.

ATIVO were awarded a competitive tender to complete services under an outcome based risk / reward model, in the Oxy Reduction area of the plant. The scope included pre-shut planning and work pack review, execution, responsibility for all works & successful handover of plant upon safe completion of works.

The team to manage the delivery of these outcomes required a project manager, two superintendents and were supported by a supervisory team of 14 including 2 OSH professionals.

ATIVO utilised its permanent shutdown crew for the 145 personnel required which included mechanical fitters, boilermaker

welders, riggers and trades assistants. The actual scope involved included:

- Ⓐ Isolating the plant
- Ⓐ Removal of all items for off site repair (OSR)
- Ⓐ Vessel openings to allow hydroblasting, inspection and NDT.
- Ⓐ Resultant remedial works
- Ⓐ Installation of all OSR items
- Ⓐ De isolate plant and handover

outcome.

The Post Shut review identified the following highlights:

- Ⓐ 1758 x Safety Observations vs. target of 1212. (~150% KPI)
- Ⓐ ZERO Reportable Incidents (including, MTI and LTI)
- Ⓐ 170+ work orders completed
- Ⓐ 25,239 hrs completed
- Ⓐ 96% SKILLED Shutdown Crew Retention (6 new starters to the team)
- Ⓐ 100% Pre Mobilisation Drug & Alcohol Screens

