



Black Swan Disseminated Project Phase II

Project Category: Process Design

Client: Black Swan Nickel Pty Ltd via
Lycopodium Engineering Pty Ltd

Location: 50km NNE Kalgoorlie, Western
Australia

Capacity: 2.15 Mtpa

Commodity: Nickel



Kalgoorlie, Western Australia

Scope of Work

Provide process design and commissioning services to Lycopodium Engineering for the brown fields upgrade of the Black Swan Nickel processing plant.

Flowsheet

New SAG and Ball mills, flash flotation, upgrade existing crushing circuit to accommodate recycle pebble crushing, new rougher/scavenger flotation, reconfigure existing flotation circuit to 3 stages of cleaner flotation, new cleaner scavenger flotation, upgrade to reagents and water services, new tailings thickener, 22km overland water supply pipeline.

Notable Feature

OMC confirmed suitability of available second hand mills. Significant mill refurbishment program. Upgrade to Scada system. Difficult integration into existing layout. Minimal downtime in tie-over from existing plant to upgraded circuit.

Outcome

Successful flowsheet selection and upgrade integration into existing plant. Throughput tonnage and grind achieved in short ramp-up period with minimal downtime during the new plant tie-over period.
Date – September 2006.

