RANDALLS GOLD PROJECT

SCOPE OF WORK

GR Engineering was appointed by Integra Mining Limited to undertake the engineering, design, procurement, construction and commissioning of the Randalls Gold Processing plant. Integra Mining had previously procured the old New Celebration processing plant, equipment and infrastructure to meet all of the crushing requirements and some of the processing plant requirements. Additional new equipment was required for the wet plant section of the processing plant and part of GR Engineering's scope was to manage the refurbishment of the existing plant and incorporate it into the Randalls' plant design.

The plant is designed to treat an ore throughput of 800,000 tpa. The grinding and wet plant circuits are designed to process ore at a treatment rate of 95.5 tph.

Ore is processed through a three stage crushing circuit. Crusher ore is stored in a fine ore bin with a live capacity of 3,000 tonnes. The grinding circuit consists of a single ball mill. Gold recovery consists of both a gravity circuit containing gravity concentrator and intensive cyanidation units and a hybrid CIP circuit comprising one leach and six adsorption vessels. Gold is stripped from loaded carbon using a pressure Zadra type elution circuit and gold will be subsequently recovered from the cathodes of the gravity and elution electrowinning cells.

GR Engineering commenced the EPC design, construction and refurbishment of the process plant facilities in December 2009 and was given access to the Randalls site in January 2010. The project was completed in September 2010.

Commodity: Gold
Region: Australia
Location: 65 km south east of Kalgoorlie in Western Australia
Project Type: Greenfields, EPC design and construct

Client: Integra Mining Limited (ASX: IGR)
Award Date: December 2009
Completion Date: September 2010
Project Manager: Peter Yates
Process Manager: Sarah Phun