

INDUSTRIES



coal



iron ore



cement



minerals

Application Note - Coal

MO:-AUS-17

Our Customer

Our Customer is a coal mine in Australia. The mining complex comprises four open cut mining areas, three underground mining areas and other mining related infrastructure including coal processing and transport facilities.

Site Location

The mine is located in the Western Coalfields, of News South Wales. Coal from the mine is railed to the Port Kembla Coal Terminal where it is exported predominantly to Korea.

The Product

The mine predominantly produces a coking coal with an ash content that typically ranges from 12-33%. Coal from the underground mine is washed at the nearby coal processing facility.

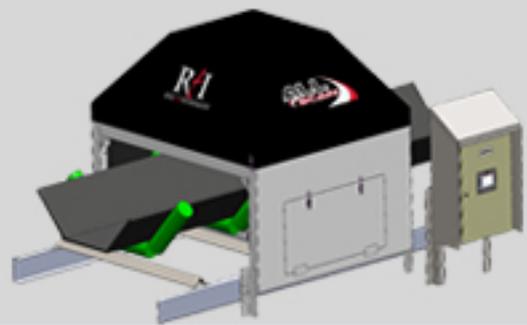
Installation

RTI's Online PGNA Analyser is installed on a skyline conveyor that receives coal from the underground coal mine. It is on a 1400mm fabric core belt conveyor with a troughing angle of 45 degrees.





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online elemental analysis ...



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Purpose of the Analyser

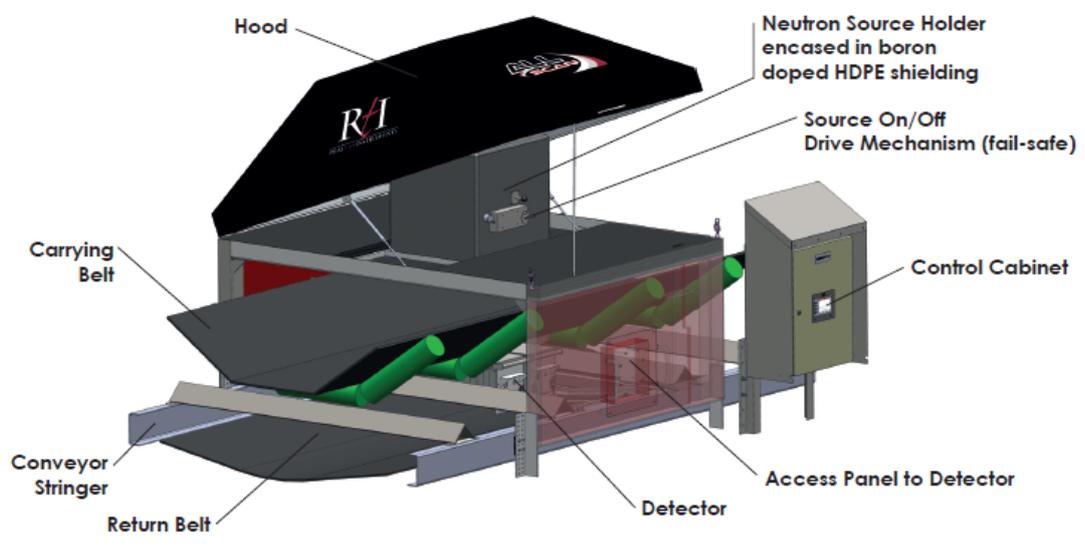
The purpose of the analyser is facilitating Stockpile Management. Based on the data from the AllScan the coal will be stacked at various locations on the Stockpiles in readiness for processing.

Benefit of the Customer

The ultimate benefit to the customer is improved processing efficiency as the coal that is sent to the washplant is more consistent in terms of ash variability. This assists operators in setting washability parameters resulting in an improvement in the beneficiation process.

The AllScan®

The AllScan is a new-generation online elemental analyser that uses PGNAA (prompt gamma neutron activation analysis) technology to accurately measure the chemical composition of most bulk materials. The analyser combines practical operational features with sophisticated hardware and software resulting in an analyser that is easy to install, calibrate, and maintain, and above all, is extremely accurate.



Contact Us

For further information please contact Realtime Instruments or an RTI Distributor in your country. Visit www.realtimegrp.com for contact details.