

PRODUCT APPLICATION NOTE

WA0604

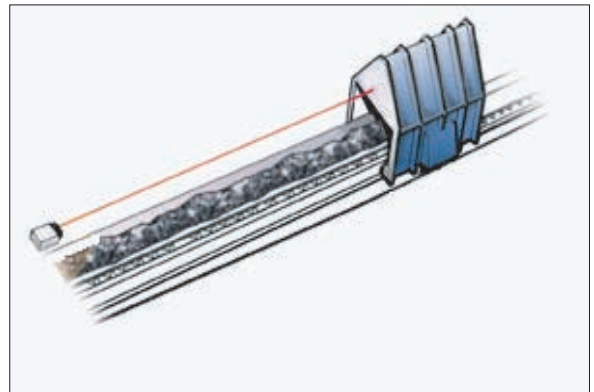
Industry:	Utilities, Primary Metal Mining, Metal Mining, Pulp & Paper
Application:	Tripper Car Positioning
Optech Equipment:	Watchman 3100
Application Description:	The customer needed to accurately determine the position of a tripper car along a stretch of track.

Optech's Watchman 3100 was installed as part of an automated coal handling system at a power generating station. The laser-based unit monitors the location of a tripper car along a 1600 foot length of track above numerous coal bunkers used to inventory coal. The analog output from the Watchman 3100 is combined with level outputs from each bin and fed into a PLC, allowing the customer to monitor and control the level of coal in all of the bunkers.

The ability to optimize the dumping logic of the system resulted in reduced costs for the customer as this improved both efficiency and safety. Problems such as chute damage when dumping material into empty bins, overfilling of bins and process interruptions due to lack of coal have been virtually eliminated due to the reliability and accuracy of the Watchman 3100 laser-based object positioner.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Measurements can be made in extremely dusty conditions with the use of reflectors on targets.
- Non-contact measurements.
- Short set-up time and easy calibration.
- Narrow beam divergence for long distance measurements to small targets
- Measurements unaffected by temperature variations.



300 Interchange Way • Vaughan, ON • Canada L4K 5Z8

Tel: [905] 660-0808 • Fax: [905] 660-0829

Web: www.optech.ca • Email: inquiries@optech.ca