

PRODUCT APPLICATION NOTE

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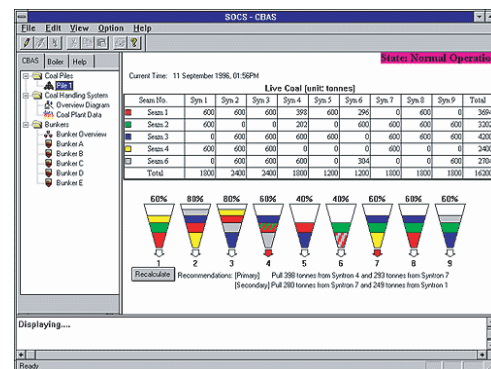
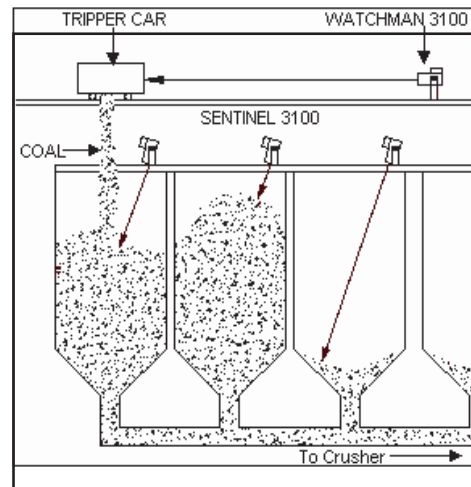
Page 2

The Sentinel 3100 has been field proven in providing continuous level to a variety of coal blends, through to 100% PRB. It is capable of reading the full bunker extents regardless of geometry or internal structural elements, which may impede performance of other non-contact technologies. Low material dielectric or acoustically "noisy" environments have no effect whatsoever. Fully non-contact and non-intrusive, the Sentinel 3100 can easily read down into a 24" discharge chute at a range of 120' or greater. The inherent property of the laser allows it to directly read to the surface of any stockpile, regardless of cone-up or cone-down properties. Superior dust penetration characteristics are standard, as is eyesafe operation under all conditions.

All of Optech's 3100 family of products come standard with CSA approval for Class 2 Div 1 Group E, F and G hazardous locations, and are completely eyesafe as per FDA, requiring no special permits, reporting, or safety precautions. Units are modular, facilitating quick commissioning and troubleshooting, and their non-contact, non-intrusive design leaves a maintenance free installation. Local after sales support is available across the United States and Canada.

KEY ADVANTAGES OF LASER TECHNOLOGY IN LEVEL MEASUREMENT

- Superior dust penetration working to varying coal blends
- Small beam divergence allows for pinpoint alignment
- Measurements not affected by the angle of repose
- Measurements to low reflectance targets possible
- Measurements unaffected by low dielectric constant of material, temperature variations or background noise.
- Short set up time and simple calibration
- Measurements to full extremes of concrete or steel bunkers, regardless of size, geometry or interconnecting structural elements.



Screenshot courtesy of
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