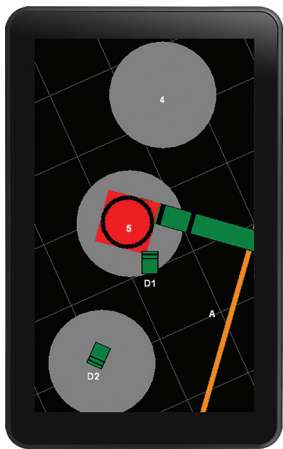


SAFETY SYSTEM FOR STOCKPILE DOZERS ON STOCKPILES WITH COAL VALVES

Stockpile dozers, working a stockpile with coal valves feeding underlying conveyors, run the risk that when the stockpile level is lower than a certain critical level, a stockpile dozer could fall into an active valve damaging both the dozer and the valve, and often the conveyor as well.



Operator's in-cab screen

Using GNSS-based Proximity Detection Technology, the operator of a stockpile dozer can now not only view his/her machine's location relative to a map of the coal valves in real-time, but can also see on the map if a valve is active and enjoy both visual and audible warnings if he/she trams too close to an active valve without receiving nuisance alarms against inactive valves.

- A - Stacker & Rail
- D1 & D2 - Stockpile Dozers
- 4 - Coal Valve
- 5 - Active Coal Valve sending a collision warning to a Dozer

A 27" computer monitor located in the stockpile control room and/or the load-out station provides the following benefits:

- ▶ The locations of the stockpile equipment (stackers, dozers etc.) may be monitored in real-time.
- ▶ The integrity of the system may be monitored in real-time, and coal valve status indicator failure timeously detected.
- ▶ Dozer locations may be verified in real-time to ensure safe activation of coal valves.



Control room's screen

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