

BMS



Berm Monitoring System

Safety and productivity through accuracy and reliability

Waste dump safety windrows of an active mine dump form part of the critical control measures utilised to ensure that haul trucks do not reverse over the edge of a level, whilst dumping material. The Berm Monitoring System (BMS), with a 360° capability is used to monitor and identify non-compliant windrow height and positioning in a dynamic environment whereby these attributes change continuously with the waste dump advancement.

The continuous monitoring of these safety windrows with the BMS will ensure that the required height, which is site dependent, is constantly in place. The human machine interface (HMI) can be viewed either on the BMS platform or on a web based format remotely, whereby the data can be monitored and assessed. The non-compliant windrow location will be relayed to the operator to rectify the area of concern.

The BMS can also be used to scan the dimensions of rockfall protection windrows located at the toe of the slope, or other predefined areas.

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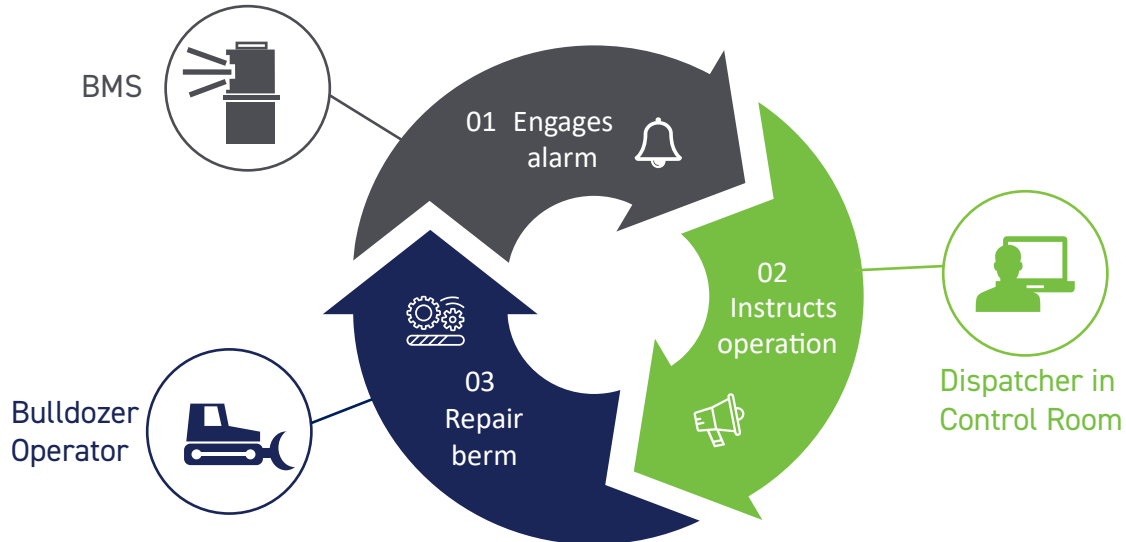


Functionality and alarming

The BMS consists of a highly mobile trailer that can be quickly deployed by means of a light delivery vehicle. The standard system includes a fully autonomous solar powered uninterrupted power supply. Communication to the control room or any other remote PC is by means of an integrated on-board Wi-Fi system.

BMS CONTROL CIRCUIT

Together with the personnel in the control room and the dozer operator, the BMS forms a closed control circuit whose task is to prevent and, if necessary, repair non-compliant windrows.



01 ALARM

When detecting and identifying non-compliant windrows, the BMS engages an alarm that is sent to the control center automatically.

02 INSTRUCTION

The responsible personnel in the control room sees the alarm on the BMS website and gives instructions so that appropriate repair measures can be initiated if necessary.

03 REPAIR

The bulldozer operator repairs the corresponding windrow and reports the repair back to the BMS.



Technical specifications

- Height accuracy: 10cm within the measurement range of 400m
- Temperature: 0°C to 45°C
- Range: 10m to 400m
- Scan intervals: between 3 and 11 minutes range dependent
- Scan envelope: 360°
- Operating system: Windows 10 or Windows Server. Web interface



Joint venture



To view our full range of products and specifications, visit us at: www.reutechaustralia.com.au

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