



SAFETY ALERT

Doc No: SA-0076



<i>Machine:</i>	Bucyrus EL3000, EL2000	<i>Area:</i>	LONGWALL SHEARER
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<i>Approved By:</i>	Brad Williams	<i>Date:</i>	7 Nov. 08

<i>Distribution:</i>
<i>ALL BUCYRUS EL2000/3000 SERIES SHEARER USERS</i>

Safety Alert Details:

There have been 2 reported incidences on Bucyrus EL series longwall shearers where the type LOML02 remote control radio transmitter (Bucyrus part Nos LA-LAP00843, 641139) have resulted in unwanted or extended operation due to pushbutton sensitivity. Although faulty pushbutton appear and feel “normal” they had become highly sensitive, resulting in function operation by a slight brush across the button dome.

END USERS

Pempek ML Radio transmitters are used on all Bucyrus shearers of the EL2000 and EL3000 series, specifically:

Austar – EL2000 shearer - 6 known transmitters

Ravensworth – EL2000 shearers - 12 known transmitters for two shearers

Beltana – EL3000 shearer - 6 known transmitters

Broadmeadow – EL3000 shearer - 6 known transmitters

Crinum – EL3000 shearers - 12 known transmitters for two shearers

Dartbrook – EL3000 shearer - 6 known transmitters, currently out of service



Kestrel – EL3000 shearer - 12 known transmitters for two shearers

Newlands – EL3000 shearer - 12 known transmitters for two shearers

West Wallsend – EL3000 shearer - 6 known transmitters - not yet in service.

Spare transmitters at Bucyrus facilities in NSW and QLD.

INVESTIGATION DETAIL

Pempek and Bucyrus have examined the reported faulty transmitters, have identified the sensitive nature of the function button, and visibly seen the misplaced 'dome' of the assembly which lies between the switch plate and overlay membrane cover. The domes in this case had been assembled off centre, eventually resulting in the problems described. The affected transmitters are all from manufacture after June 2006

RECTIFICATION DETAIL

Pempek have sourced a different, larger dome and dome location assembly and have assembled in transmitters currently in use at the Ravensworth underground mine. The replacement dome is physically larger and stronger, has a more positive 'click action', and assembly does not allow for misplacement.

Pempek will replace the faulty components when any of the ML type transmitters are returned to them, free of charge. Other repairs or routine maintenance at that same time will of course be charged appropriately.

RECOMMENDATIONS

- All ML Radio Transmitters should be inspected by specified person on surface of the mine and function buttons checked to ensure:
 1. They are not damaged.
 2. That a positive click action can be felt when operating.



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3. That the radio transmitter onboard indication panel shows that a function has been operated only when button is **fully and positively** pressed in.(indicated by symbol beside ‘ON’ indicator)
 4. That the internal dome within the membrane of the respective function button feels to be in the centre of the membrane area, and not misplaced towards the side.
 5. That the button operation is viewed with the Pempek charger display and checked again to ensure only a positive action operates the described function.
- Any Radio Transmitter with suspected faulty buttons from the above inspections should be returned to Bucyrus as soon as possible to allow modifications to be done. This needs to be done in a controlled manner to ensure the Mine is not left without sufficient radio Transmitters to continue operation, and organised via Bucyrus to ensure a minimal delay on repair/return to site
 - Any ML Type Radio Transmitter with a serial number starting 06, 07, or 08 (year of manufacture) should be returned to Bucyrus at the next available yearly inspection date or sooner depending on longwall block finish dates to allow modifications to be done.
 - Any ML Type Radio Transmitters with serial numbers starting 04, 05, should be returned to Bucyrus for overhaul and modifications to be done at the normal 12 monthly inspection date.

Comment: