

**Reference** 109  
 Route to **Service Manager/Modernization Manager/Construction Manager**  
 From MCE Technical Support Department (916/463-9200 then touch 6)  
 Date January 11, 1999  
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**Subject** **POTENTIAL LS-QUIK ENCODER FAILURE**

**Description** The LS-QUIK landing system employs a cartop-mounted, wheel driven encoder. In a few reported cases, conditions within the encoder have resulted in failure of the HC-DFQ board, located inside the landing system enclosure.

Subsequent investigation has revealed that HC-DFQ board failure can be traced to encoder insulation breakdown, possibly resulting from the effects of lightning or humidity. When the encoder ground becomes common with the case ground, the result is destruction of the HC-DFQ board and an immediate car shutdown (a car in motion will move to the nearest floor, and open doors, before removing itself from service).

**MCE** has developed a cost effective remedy for existing encoders in the form of a “piggyback” board for the HC-DFQ board. This retrofit kit (LS-QK-EN RETRO KIT) will provide permanent system immunity to any ground faults within the encoder, with a minimum of field labor time, no mechanical readjustment, and no necessity to return parts for credit.

The design of encoders shipped after November 12, 1998 has been revised to eliminate any ground short potential. Systems shipped with **encoders marked with an “R” on the end of the cover do not require piggyback board retrofit kits.**

**Action** If you have BEI encoders (MCE part number **11-01-0042**) which were shipped *between May 1997 and November 12, 1998* with BEI serial numbers **W0024137** or greater, telephone **MCE** Technical Support to obtain necessary retrofit kit(s). These kit(s) are available **at no cost** provided you submit your request **by June 1, 1999** along with the encoder’s part number and serial number.

Upon receipt of your kit(s), install the “piggyback” board at your earliest possible convenience, following the instructions provided. When finished, affix the sticker (included) to the landing system top cover for easy verification that the piggyback board retrofit has been accomplished.

**MCE Help** As always, should you require technical assistance on other issues:

- ! Telephone 916/463-9200
- ! Touch “6” for Technical Support
- ! **Refer to the reference number above**