

Navigation & Surveillance

Thales Air Traffic Management U.S.

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BULLETIN NO. MK10-16 Rev A

Date: April 04, 2014

APPLICABLE TO: MK 10 ILS and MK 10 MARKER BEACON

SUBJECT: **DC-DC Converter can exhibit high voltage output.** Thales has identified that a mismatched DC-DC converters in a MK10 system may lead to a system reset in dual systems.

EQUIPMENT AFFECTED:

Spares and or repairs purchased 2011 through March 2014 for the following products:
MK 10 Localizer, MK 10 Glide slope, and MK 10 Marker beacon.

ISSUE:

Thales has identified that the 5.0 VDC output of the DC-DC converter (120128-0001) PCS 09 which is part of the 120100-0001 power supply assembly of the MK 10 Localizer and Glide Slope, and also the 120128-0002 PCS 06 installed in the MK 10 Marker Beacons maybe operating at an output level near 5.2 VDC. This is higher than the previous version of converters which operate at a nominal 5.0 VDC. This can cause mismatched voltages between two different DC-DC converters if both versions are installed in a system, thus impacting system availability and also reliability.

The System will issue a system reset if a DC-DC converter failure/off condition occurs in a dual system. This reset causes the ILS system to temporarily lose all communications and take both transmitters off line for the reset time interval.

RESOLUTION:

Thales is requesting all 120128-0001 labeled PCS 09 and all 120128-0002 labeled PCS 06 be returned to Thales for replacement or repair immediately.

Thales has designed and tested a modification to the modules to stabilize the voltage at 5.0VDC.

DC-DC Converter replacement instructions:

MK 10 Localizer: Refer to Manual 704480 Section 4 maintenance.

MK 10 Glide Slope: Refer to Manual 70481 Section 4 maintenance.

MK 10 Marker Beacon: Refer to Manual 704482 Section 4 maintenance.

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120128 DC-DC converter

