

LETTER NO: SLCSL#2005-07-06-001**Date:** July 6, 2005**Subject:** ACARS Datalink Unit (Dlink+) Power Switching Resets**Model:** 13281-1**Applicability** CRJ-200**Background:**

On some Datalink units, it has been observed that switching power from the #2 Generator bus to either the APU or #1 Generator bus could cause the Datalink unit to reboot. Management of this issue was addressed in the A3 software modification. The A3 software currently installed on all aircraft saves all the information (in, out, off, on times) into memory during power transfers. This anomaly may not occur during every power transfer, during recent testing at Air Wisconsin the power switching signature was recorded. Recording the input voltages during switching on several aircraft revealed interesting data that will assist in developing a response. The ultimate fix for this issue is under investigation. Rebooting during power transfers is considered acceptable. Rebooting during power transfers does not affect the function of the ACARS unit, transmission and reception of all messages is still accomplished.

Action:

Spectralux Corporation is working to correct this problem and does not recommend removal of the unit for these symptoms (reference SLC problem report 130). This recommendation is limited to power switching events, if the unit reboots at any other time, it should be removed and sent in for analysis and repair.

Approval:

Robert Bernstein
Engineering Manager