Title: New Orion System Card Boot-up Problems
Created: July 25, 2014 Revised: n/a

Potential Problem
It has been reported and confirmed that our latest Orion System Cards (using CompactFlash with a PCMCIA adapter) may not reliably boot-up an Orion Motion Controller employing an older revision System Module (ORN043 or ORN004).

This Tech Note documents the System Module revisions that may have problems, documents the reliable revisions, and presents the remedy options if this problem is encountered in the field.

Potential Problem Identification
Orion System Modules [ORN004/ORN043] at Hardware Revision Levels “A” through “L” may exhibit unreliable and intermittent boot-up behavior when employing ORMEC’s newest System Cards: [PCC-SYS/0nnn, PCC-SYS4/0nnn, PCC-SYS5/0nnn (where the nnn digits indicate card storage size)].

System Modules with Revision Levels “M” and higher (“N”, “O”, etc.) will boot the newest cards reliably, as hardware changes were implemented in those revisions that strictly comply with the CompactFlash Interface Standard.

The Revision Level of an Orion System Module is clearly identified on the board at the following locations:

- A Paper Label installed on the resident “No-Fault Relay” component
- Etched onto the board in the S/N, Model, Rev Identification Fields

Remedy Options
Two options are offered when a new System Card presents booting issues with an old System Module:

- Purchase a new Orion System Module; ORN043/ORN004 @ prices: $1693 / $1793
  -(the above prices, established in July 2014, are subject to change)

- Ship the System Module to ORMEC for a factory upgrade to Rev “M” (or higher, as is possible).
  - Contact ORMEC (support@ormec.com) to request a Return Authorization Number.
  - Upgrade price is $350 (this price, established in July 2014, is subject to change)