Purpose:

To advise customers of the solution to a problem which may cause POS.ABS@ to return the incorrect absolute position of a motor.

Revisions Affected:

All ORN-DSP cards used with motors having absolute encoders and MotionBASIC® versions 3.2g or lower. *Generation III systems are not affected.*

Description:

A problem with ORN-DSP hardware may cause the card to misread the absolute encoder position resulting in an incorrect value for POS.ABS@. The magnitude of the error could be multiple revolutions of the motor and appears to occur less than 1 time out of every 100 reads.

*This problem may cause the controller to believe the motor shaft is in a different position from where it actually is. This could result in a hazard capable of causing personal injury or damage to machinery.*

Solution:

While the problem is due to the ORN-DSP hardware, we have determined that it is more convenient for our customers to correct the problem by releasing a new version of MotionBASIC® which is designed to compensate for the hardware problem.

Recommendation:

ORION customers using motors with absolute encoders and MotionBASIC® versions 3.2g or lower, should contact ORMEC's Service Department and arrange to exchange their PCC-SYS card for one having a later version of MotionBASIC®. These exchanges will be covered under warranty.

Before calling the Service Department, please determine the exact part number of your existing PCC-SYS card and any MBX's installed on it.