In P57, if gyro torquing is attempted (a Proceed on V06N93) while the IMU compensation routines are torquing gyros, a 1210 program alarm will occur.

Digital simulation of P57. A software restart occurred after PROCEED on V06N93.

- MIT ANALYSIS -

2.1 CAUSE:
IMUPINE routine does not check to see if gyro torquing is in process and IMUSTALL make only one attempt at using IMU, then aborts.

2.2 RECOGNITION:
1210 Alarm and restart after PROCEED on V06N93 in P57.

2.3 MISSION EFFECT:
Unknown.

2.4 AVOIDANCE PROCEDURE:
Clear DRIFTFLG with N07 before PRO to N93, then set it.

2.5 RECOVERY PROCEDURE:
Redo P57.

2.6 PROGRAM CORRECTION:
Recode to insure the 1210 cannot occur.

2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc.):
Fix for next LUMINARY Release (1B).

2.8 RECOMMENDED RE-TESTING:
Retest P57 to demonstrate fix.

3.1 NASA DIRECTION:

2.9 MITIL SIGNATURE:

2.10 DATE:

4.1 CLOSING ACTION TAKEN:
Fix in LUMINARY 1B

4.2 SIGNATURE:

4.3 ORGANIZATION:

4.4 DATE: