IMU compensation on the lunar surface does not initialize the low order part of DELV before compensation of acceleration sensitive terms.

Differences of gyro torquing angles between two identical digital simulations.

MIT ANALYSIS

2.1 CAUSE:
DELVX + 1, DELVY + 1, and DELVZ + 1 are not zeroed in the PIPA read routine

2.2 RECOGNITION:

2.3 MISSION EFFECT:
Slightly incorrect IMU compensation on lunar surface

2.4 AVOIDANCE PROCEDURE:

2.5 RECOVERY PROCEDURE:

2.6 PROGRAM CORRECTION:
Zero the low order DELV's in the pipa read routine

2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc.):
Fix in Luminary 1A

2.8 RECOMMENDED RE-TESTING:
Digital Simulation

3.1 NASA DIRECTION:

4.1 CLOSING ACTION TAKEN:
No effect on Mission E
Fix in LUMINARY 1A

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