

MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO. ILNY 43 Rev. 1
PROGRAM Luminary
PROGRAM REVISION 69

1.1 ORIGINATOR: J. Kernan	1.2 ORGANIZATION: MIT	1.3 DATE: 4/9/69	1.4 ORIGINATOR CONTROL NO.
-------------------------------------	---------------------------------	----------------------------	----------------------------

1.5 DESCRIPTION OF ANOMALY:

If a POODOO program alarm (codes 105, 1103, 1204, 1206, 1406, 1501, 1502) occurs during permanent state vector integration, STATEFLG and the NODOFLAG may remain set and subsequent integrations may cause difficulties.

CONTINUED ON PAGE

1.6 DESCRIPTION OF RUN:

Eyeball

CONTINUED ON PAGE

- MIT ANALYSIS -

2.1 CAUSE: Coding Error: If a POODOO alarm occurs during POO integration, the NODOFLAG remains set. For other permanent integrations (e. g., P20) the STATEFLG will remain set.

CONTINUED ON PAGE

2.2 RECOGNITION: If occurring during POO, all program requests via V37 except for POO (and V96) are locked out. If occurring during P20, the next integration will behave as a permanent integration & may clobber the state vector.

CONTINUED ON PAGE

2.3 MISSION EFFECT:

Mandatory recovery procedure if a POODOO alarm occurs.

CONTINUED ON PAGE

2.4 AVOIDANCE PROCEDURE:

None

CONTINUED ON PAGE

2.5 RECOVERY PROCEDURE: If a POODOO alarm occurs during permanent integration (POO, P20, P25, P76 and AVETOMID) select POO. A ground update may be required if the alarm occurred during P76 or AVETOMID.

CONTINUED ON PAGE

2.6 PROGRAM CORRECTION:

Add coding to reset the NODOFLAG and STATEFLG in the POODOO logic.

CONTINUED ON PAGE

2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc):

Program note for LUMINARY 1
Already fixed in IA.

Henry W. Cherry CONTINUED ON PAGE

2.8 RECOMMENDED RE-TESTING:

CONTINUED ON PAGE

2.9 MIT/IL SIGNATURE: <i>J. Kernan</i>	2.10 DATE: 4-9-69
---	-----------------------------

3.1 NASA DIRECTION:	4.1 CLOSING ACTION TAKEN:
CONTINUED ON PAGE	CONTINUED ON PAGE

3.2 NASA/MSC SIGNATURE:	3.3 ORGANIZATION:	3.4 DATE:	4.2 SIGNATURE:	4.3 ORGANIZATION:	4.4 DATE:
-------------------------	-------------------	-----------	----------------	-------------------	-----------