

# CANCELLED

## MIT/IL SOFTWARE ANOMALY REPORT

104

REPORT NO. <b>LN 47</b>
PROGRAM <b>LUMINARY</b>
PROGRAM REVISION <b>Rev. 69</b>

1.1 ORIGINATOR: <b>W. OSTANEK</b>	1.2 ORGANIZATION: <b>MIT/IL</b>	1.3 DATE: <b>3/18/69</b>	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:

Permanent integration of state vectors without W-matrix integration is not restart proof. One interpretive instruction (an EXIT) is not protected such that if a restart occurs here the permanent state vector will not be updated.

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1.6 DESCRIPTION OF RUN:

Eyeball.

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- MIT ANALYSIS -

2.1 CAUSE:

STATEFLG which causes the program to write into permanent state vector storage is cleared before a phase change.

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2.2 RECOGNITION:

Possible large N49 display if restart during navigations.

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2.3 MISSION EFFECT:

Possible erroneous state vector corrections in navigation; possible W-matrix problems due to non-synchronization of state vectors.

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2.4 AVOIDANCE PROCEDURE:

None.

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2.5 RECOVERY PROCEDURE:

Additional marks may be necessary to reestablish proper state vector.

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2.6 PROGRAM CORRECTION:

Reset STATEFLG after phase change.

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

Fix in LUMINARY 1A.

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2.8 RECOMMENDED RE-TESTING:

Level 2 with restart.

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2.9 MIT/IL SIGNATURE: <i>Henry W. Cherry</i>	2.10 DATE: <b>3/19/69</b>
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3.1 NASA DIRECTION:

4.1 CLOSING ACTION TAKEN:

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