

# MIT/IL SOFTWARE ANOMALY REPORT

MSC REPORT NO.	LNY 37
PROGRAM	LUMINARY
PROGRAM REVISION	69

1.1 ORIGINATOR: <b>P. Volante</b>	1.2 ORGANIZATION: <b>MIT</b>	1.3 DATE: <b>2-5-69</b>	1.4 ORIGINATOR CONTROL NO.
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1.5 DESCRIPTION OF ANOMALY:

- A V32 E response to the V16 N80 display in the R24 search routine during P22 results in R2 not being updated when the V16 N80 display is restored. If the radar then locks on and a proceed response keyed in, the first radar reading will be erroneous.

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1.6 DESCRIPTION OF RUN:

P22 Level 3 digital run

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- MIT ANALYSIS -

2.1 CAUSE:

The V32 E response to the V16 N80 display in P22 (only, not P20) causes a false indication that a radar operation has been successfully completed.

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2.2 RECOGNITION:

R2 is not updated every 6 seconds in V16 N80 display after V32 E.

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2.3 MISSION EFFECT:

unknown

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2.4 AVOIDANCE PROCEDURE:

Since the purpose of the V32 response is to request an R61 maneuver, it should never be done in P22

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2.5 RECOVERY PROCEDURE:

Key in V95 E to prevent updating with bad radar data, then V37 E 22 E to remove false indication of successful radar operation

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2.6 PROGRAM CORRECTION:

change code so that this false indication cannot occur

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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:

Retest in Luminary 1A Level 3

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2.9 MIT/IL SIGNATURE: <i>James E. Korman</i>	2.10 DATE: <b>2-6-69</b>
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3.1 NASA DIRECTION:

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3.1 CLOSING ACTION TAKEN:

Fix in LUMINARY 1A  
*George W. Cherry*

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