

# MIT/IL SOFTWARE ANOMALY REPORT

MIT REPORT NO.	LNY 56
PROGRAM	LUMINARY 1A
PROGRAM REVISION	93 (and earlier)

1.1 ORIGINATOR: P. VOLANTE	1.2 ORGANIZATION: MIT/IL	1.3 DATE: 4/4/69	1.4 ORIGINATOR CONTROL NO.
1.5 DESCRIPTION OF ANOMALY: A V41 N72 RR continuous designate which follows an unsuccessful RR search (R24) will not designate to the desired angles.			
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1.6 DESCRIPTION OF RUN: System test lab - R24 terminated by V34E followed by V41 N72.			
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- MIT ANALYSIS -			
2.1 CAUSE: The search flag is left set when R24 is terminated without locking on, and the designate routine adjusts the target vector to which it is designating by the relative velocity if the search flag is set.			
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2.2 RECOGNITION: A V41 N72 continuous designate will not designate to the desired trunnion and shaft angles.			
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2.3 MISSION EFFECT: RR antenna could drift into field of view during P52.			
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2.4 AVOIDANCE PROCEDURE:			
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2.5 RECOVERY PROCEDURE: Select P20 with RR not in auto mode and terminate when the V50 N25 201 display comes up, since P20 initialization clears the search flag.			
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2.6 PROGRAM CORRECTION: Clear search flag in R56 (V56).			
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2.7 RECOMMENDED DISPOSITION (Fix, Work-around, etc): Fix program.			
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2.8 RECOMMENDED RE-TESTING: Repeat STL test.			
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3.1 NASA DIRECTION:		4.1 CLOSING ACTION TAKEN:  Fixed in LUMINARY 1A, Rev 95	
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3.2 NASA/MSD SIGNATURE:	3.3 ORGANIZATION	3.4 DATE:	4.2 SIGNATURE:
3.5 ORGANIZATION:	4.3 ORGANIZATION:	4.4 DATE:	