

Massachusetts Institute of Technology  
Instrumentation Laboratory  
Cambridge, Massachusetts

LUMINARY Memo #99

TO: Distribution  
FROM: George W. Cherry  
DATE: July 23, 1969  
SUBJECT: Providing a Glossary of the "Level 3 Test Plan for  
LUMINARY 1B"  
Reference: LUMINARY Memo #96

For the record and to make sure that the testing effort referred to in the reference is thorough and on schedule, we ought to publish, review and approve the tests used to verify each anomaly repair, PCR implementation and program improvement change.

Therefore, the responsible engineers, named by Bruce in LUMINARY Memo #96, should briefly describe the runs they will make to check the areas for which they are responsible. Their description could be as simple as, for example, in regard to LNY 72 and PCR 839:

1. Nominal landing except with LR failed in Pos #1.
  - a. Verify V34E response to FL V05 N09, R1 = 523. Clock on R12 to verify R12 turned off. Verify no 511 alarms from R12. Verify performance of landing. - (Will be degraded, of course).
  - b. Roll run back to P63 just prior to P64 and verify V32E to FL V05 N09, R1 = 523. Verify program re-checks Pos #2 discrete with a clock on the check.
  - c. Roll run back to P63 again and verify PRO response to FL V05 N09, R1 = 523. Verify that R12 uses Pos #1 beam vectors. Verify performance of landing.

2. Nominal landing except with LR unable to get from Pos #1 to Pos #2 PRO response to FL V05 N09, R1 = 523. Verify that R12 used Pos #2 beam vectors. Verify performance of landing.

A review of this little test plan might prove it deficient and that is a good enough reason alone to put it on paper.

Will each engineer please get his portion of the test plan into the hands of Tom Bankowsky, Room 266B, Ext. 532 as soon as possible but no later than Monday 28 July 1969. We are going to discuss the test plan with MSC on 29 July 1969.

Tom, who works in the management group, will help you by getting your test plan typed and the parts collated and help Bruce and Craig and me by making a little record in the development plan which will show that Level 3 is finished or, if unfinished, what is behind.

Please give this matter your immediate attention.