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LUMINARY Memo #207

To: R. Larson  
From: D. Moore  
Date: 17 March 1971  
Subject: Post-FACI Luminary 1E Tests for R40, Engine-Fail Routine

Purpose

The tests reported upon in this memo involved obtaining responses from R40, Engine-Fail Routine (while in Luminary Programs P40, P42 P63, P64, P66, P12, P70 and P71), as a result of keystroke options available for answering the flashing V97 displayed by R40.

Test Sequences

At TIG in each of P40, P42, P63, P12, P70, and P71, the engine was failed and V97 flashed on the DSKY informing that the engine was failed. The following sequences of keystroke responses were performed for each program:

Expected Sequence of Events in R40

<u>Sequence</u>	<u>Event</u>	<u>Display</u>	<u>Action</u>	<u>Response</u>
1	Engine failed	F1 V97Nxx	Proceed	V06Nxx
2	Engine failed	F1 V97Nxx	V34E	F1 V37
3	Engine failed	F1 V97Nxx	Enter	V99Nxx

(where xx refers to the appropriate noun for each of the programs tested).

Also, during P64 and P66, the engine was failed and each of the above sequences was performed, answering the flashing V97 display. No unexpected displays appeared in the P64 and P66 tests.

Results

While performing the test sequences above, it was noticed that in P12, P70, and P71 the keystroke response Enter resulted in a N63 display rather than the expected N94 display. In no other case did the unexpected occur.