

Adler

Massachusetts Institute of Technology
Instrumentation Laboratory
Cambridge, Massachusetts

LUMINARY Memo #6

TO: Distribution
FROM: George Cherry
DATE: 12 January 1968
SUBJECT: Summary of Information from Level III
Testing Status Reports for LUMINARY
Development Plan, Week of 8 January 1968

1. Many of the predicted Level II testing completion dates are predicated on the SUNDANCE FACI date. In fact, the only programs whose schedules are not geared to the SUNDANCE FACI are

<u>Program</u>	<u>Responsible Engineer</u>
P10	Phil Shakir
P11	Phil Shakir
P12	Larry Berman
P57	Ken Vincent
P63	Don Eyles
P64	Don Eyles
P65	Don Eyles
P66	Craig Schulenberg
P67	Craig Schulenberg
P70	Larry Berman
P71	Larry Berman
R10	Walter Bernikowich
R11	Don Eyles
R12	Bob Covelli
R13	Don Eyles

Thus, the schedules for the above programs assumes that the above engineers and engineers whose full-time support they expect will not be assigned to SUNDANCE tasks.

2. The schedule for P70 and P71 is predicated on the immediate delivery of the chapter 4 description of these programs. Jack Shillingford said that P70 and P71 descriptions are complete and will be available this week.
3. The schedules for the LUMINARY powered flight programs are predicated on the availability of the new FINDCDUD by 2/1/68. This is a very tight date. It is highly desirable that Don Keene begin programming his design of FINDCDUD this week.
4. It appears that P46 should be assigned to someone other than Peter Adler (perhaps, someone in Eldon Hall's group) and that Peter Adler should develop the SUNDANCE powered flight programs for the lunar as well as earth environment required for LUMINARY. The powered flight programs in SUNDANCE are known (known to Dan Lickly and Peter Adler) not to work for the lunar environment.
5. Since there is an approved program modification against LUMINARY (PCR #39) it seems that consideration should be given to Peter Volante's working on the modification of P20 now rather than deferring the implementation of the change until SUNDANCE FACI. Deferring the modification until SUNDANCE FACI could result in P20's being a very pacing item on LUMINARY.
6. Although the official date for Level III testing completion on P67 is 4/1/68, 23B (Ed Copps) has stated that the program will be available (without the guarantees of level III complete) on 3/15/68. This early availability of P67 will allow the digital autopilot group to test the DAP for handling qualities during lunar landing. The crucial program for rate-of-descent, P66, is predicted for completion on 3/15/68.

Distribution-Internal

Ragan	Sears	Lickly	Schulenberg	Volante
Hoag	Dahlen	Kosmala	Bernikowich	
Millard	Copps	Shakir	Covelli	<u>External</u>
Wieser	Nevins	Berman	Shillingford	T. Gibson
Battin	Miller	Vincent	Keene	J. Williams
Greene	Martin	Eyles	Adler	