

Date _____

MIT/IL SOFTWARE DEVELOPMENT PLAN

FOR

LGC OFF-LINE ASSEMBLIES

LUMINARY Project
Manager's Signature

Date

Director, Mission
Development Approval

Date

Date _____

TABLE OF CONTENTS
(LGC)

PCR 969	Delta-Guidance	1
PCR 884	Directional Stability and Turn Coordination during Manually Controlled Lunar Landing	2
PCR 941	Landing Radar Pre-filter	3
PCR 940	Improved Determination of LM on Lunar Surface	4
PCR 888	Modify DAP Control Authority Model to Include Effect of Jet Plume Deflectors	5
PCR 890	Improved Slosh Stability of CSM Docked DAP	6

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
I. Δ-Guidance (PCR 969)																		
A. Task Description			22 Δ															
B. Design Period			▲															
C. Prel. Design Specification			22 Δ															
D. Test Plan																		
E. Coding & Test Period	13 ▲		22 ▲															
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification			22 Δ															
H. Submittal of PCR for Approval to Change the Mainline Assy			22 Δ															
I. Results & Conclusions																		
Assumed Program Release Dates						5 □ 12 (14)					5 □ 1E (15)							
													5 □ 1F (16)					

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
II. COORD Turn																		
A. Task Description		(SEE PCR 884)																
B. Design Period	20	1																
C. Prel. Design Specification				16														
D. Test Plan				16														
E. Coding & Test Period			22		27													
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification					27													
H. Submittal of PCR for Approval to Change the Mainline Assy					27													
I. Results & Conclusions																		
Assumed Program Release Dates						5 1D (14)					5 1E (15)							5 1F (16)

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
III. LR Pre-filter																		
A. Task Description																		
B. Design Period																		
C. Prel. Design Specification		5	22															
D. Test Plan																		
E. Coding & Test Period																		
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification																		
H. Submittal of PCR for Approval to Change the Mainline Assy																		
I. Results & Conclusions																		
Assumed Program Release Dates						5 D 1D (14)				5 D 1E (15)				5 D 1F (16)				

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
IV. Landing Slope Incorporation																		
A. Task Description	(SEE PCR 940)																	
B. Design Period		5	22															
C. Prel. Design Specification																		
D. Test Plan																		
E. Coding & Test Period																		
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification																		
H. Submittal of PCR for Approval to Change the Mainline Assy																		
I. Results & Conclusions																		
Assumed Program Release Dates																		

(SEE PCR 940)

5 22

5
12
(4)

5
15
(5)

5
16
(6)

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
V. DAP-PLUM Deflectors																		
A. Task Description																		
B. Design Period	20	1																
C. Prel. Design Specification			15															
D. Test Plan			30															
E. Coding & Test Period	28			30														
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification				30														
H. Submittal of PCR for Approval to Change the Mainline Assy				30														
I. Results & Conclusions																		
Assumed Program Release Dates						5				5				5				
						10				15				15				
						(14)				(15)				(16)				

(SEE PCR 888)

20

15

30

28

30

30

30

5

10

(14)

5

15

(15)

5

15

(16)

OFF-LINE ASSEMBLY DEVELOPMENT FOR THE LGC PROGRAM

Date

DESCRIPTION	1969			1970									1971					
	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR
VI. DAP-CSM Docked Slosh																		
A. Task Description	(SEE PCR 890)																	
B. Design Period		13			1													
C. Prel. Design Specification																		
D. Test Plan																		
E. Coding & Test Period																		
F. Testing & Evaluation Outside of MIT/IL																		
G. Detail Specification																		
H. Submittal of PCR for Approval to Change the Mainline Assy																		
I. Results & Conclusions																		
Assumed Program Release Dates																		

5
1D
(14)

5
1E
(15)

5
1F
(16)