

INDEXING DATA
DATE 10-20-69
OPR MSC

T V
PGM APO
SUBJECT (D.H.H.)
SIGNATOR GRIFFIN
LOC 07-65

APOLLO 12
MISSION RULE SUMMARY

FLIGHT OPERATIONS
MISSION RULES/TRAINING

G. D. GRIFFIN
FLIGHT DIRECTOR

Handwritten signature

10-20/69
10-75

APOLLO 12 MISSION RULES
(REV A TO BE PUBLISHED 10/20/69)

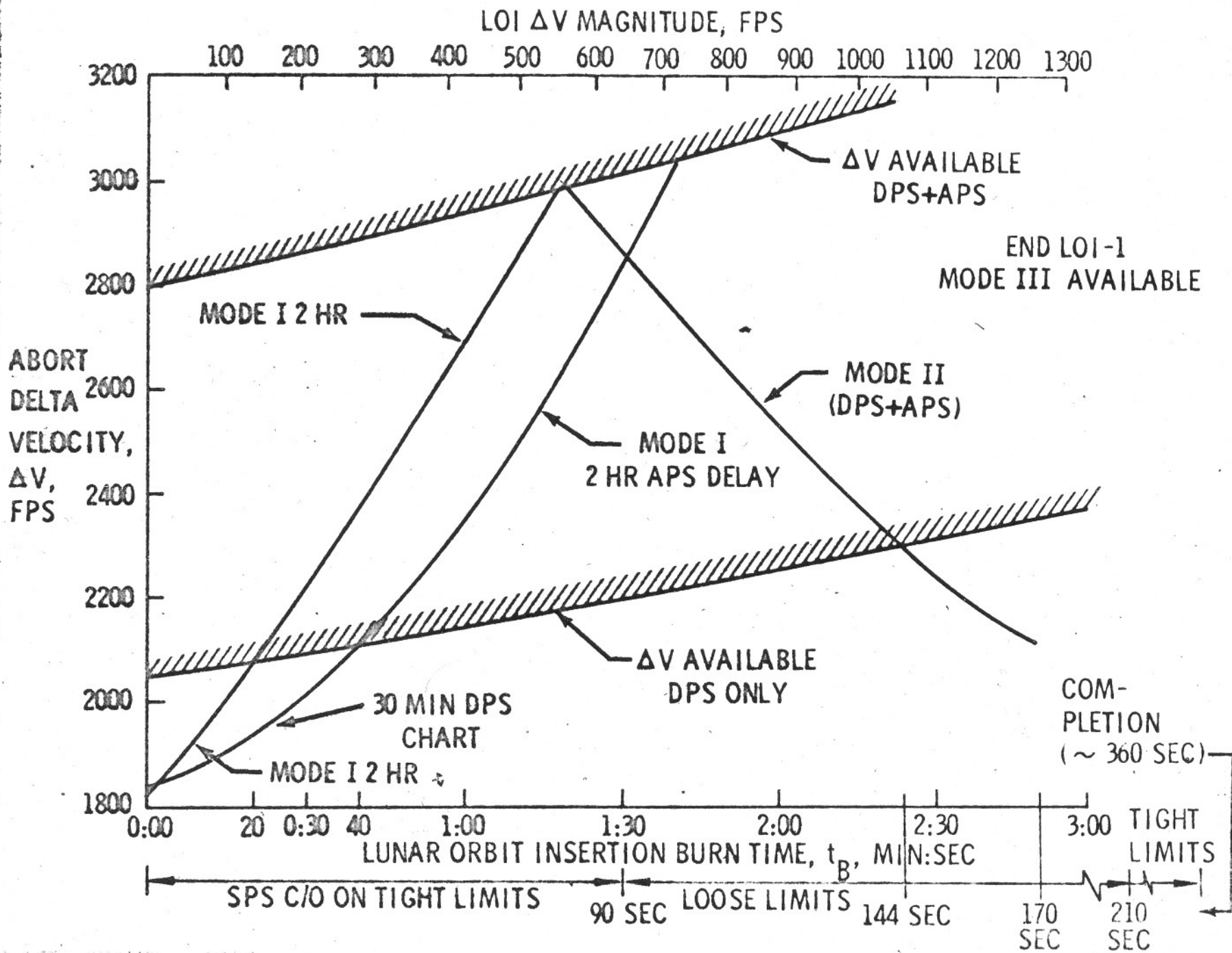
- LAUNCH/EARTH PARKING ORBIT
 - NO SIGNIFICANT CHANGES FROM APOLLO 11
 - TRANSLUNAR INJECTION/TRANSLUNAR COAST
 - TLI RULES ARE NOW BASED ON HAVING A "FINITE" PROBABILITY OF ACHIEVING AN APOGEE OF 65,000 N. MI. APOLLO 11 WAS BASED ON 95 PERCENT PROBABILITY
 - CRITERIA FOR GOING ON NON-FREE-RETURN TRAJECTORY AT MIDCOURSE CORRECTION NUMBER 2 IS SAME AS LUNAR ORBIT INSERTION.
 - LUNAR ORBIT INSERTION
 - LOI ABORT RULES AND TECHNIQUES HAVE CHANGES BECAUSE OF NON-FREE-RETURN TRAJECTORY; HOWEVER, BASIC PHILOSOPHY IS SAME AS APOLLO 11
 - LOI ABORTS IN CERTAIN RANGES REQUIRE DPS PLUS APS MANEUVERS
 - DESCENT/LANDING
 - SAME BASIC PHILOSOPHY AS APOLLO 11
 - POINT LANDING TECHNIQUES EMPLOYED, BUT PRIMARILY INVOLVES CHANGES IN PROCEDURES
-

APOLLO 12 MISSION RULES (CONCL'D)

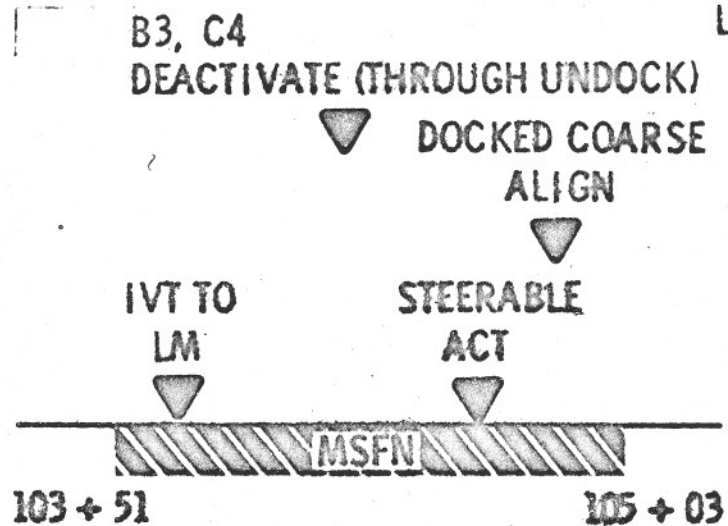
- LUNAR STAY
 - NO CHANGE IN APOLLO 11 PHILOSOPHY
 - LONGER STAY TIME AND TWO EVA'S REQUIRE SIGNIFICANT PROCEDURE DIFFERENCES
 - SOME NEW RULES ASSOCIATED WITH SURVEYOR III ACTIVITIES
- ASCENT/RENDEZVOUS
 - NO SIGNIFICANT CHANGES FROM APOLLO 11
- POST RENDEZVOUS
 - ADDITIONAL CONSIDERATION GIVEN TO LM CONSUMABLES RULES TO PROVIDE FOR IMPACTING OF LM ASCENT STAGE
 - ADDITIONAL CONSIDERATION GIVEN TO CSM CONSUMABLES RULES TO PROVIDE FOR LUNAR ORBIT PLANE CHANGE AND SUBSEQUENT LUNAR PHOTOGRAPHY
- TRANSEARTH INJECTION/TRANSEARTH COAST/ENTRY
 - NO SIGNIFICANT CHANGES FROM APOLLO 11

APOLLO 12 TRAINING SCHEDULE (AS OF 10/21/69)

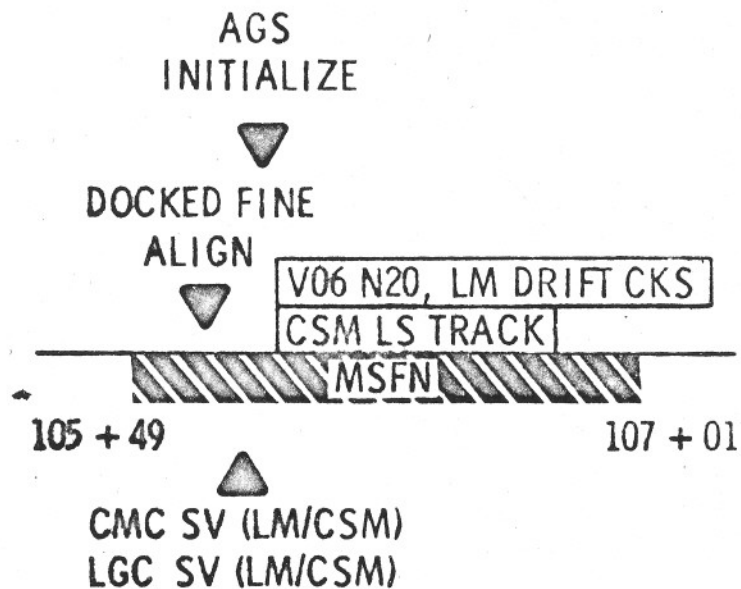
MISSION PHASES (EXERCISES/DAY)	ACCOMPLISHED		REMAINING		TOTAL
	MCC ALONE	MCC CREW	MCC ALONE	MCC CREW	
LAUNCH (10)	1	1		1	3
TLI (2)		2	1	1	4
TLC (1)		1			1
LOI (2)		3			3
LM ACT (2)		1			1
LM ACT/DES (1)		2		1	3
DES (10)	1	3		1	5
EVA (2)		1		1	2
LUNAR SURF (2)				2	2
ASC/RNDZ (1)		2		3	5
POST RNDZ (1)		1			1
TEI (1)		1			1
REENTRY (2)		1			1



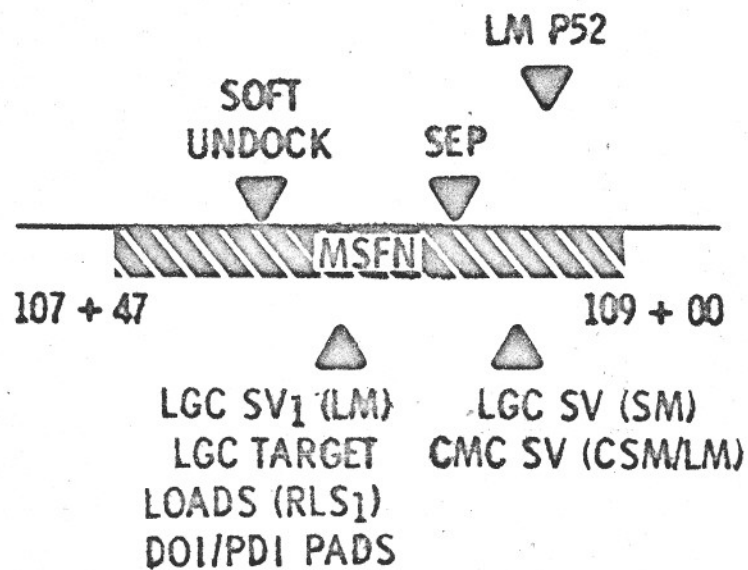
LM CHECKOUT TIMELINE



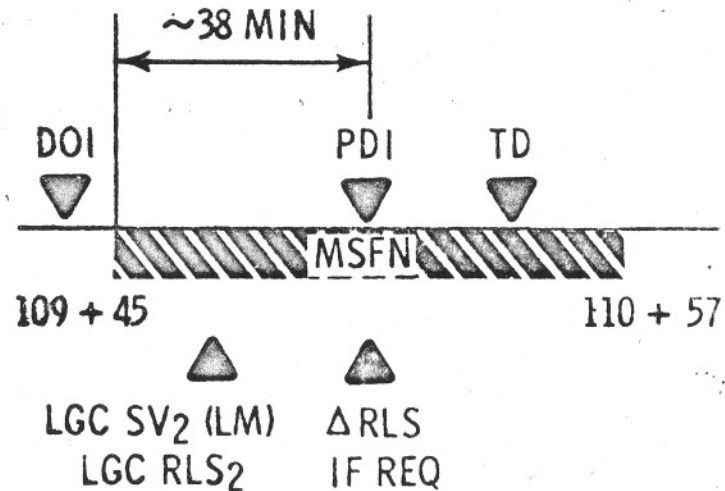
REV 11



REV 12



REV 13



REV 14