



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION  
WASHINGTON 25, D.C.

IN REPLY REFER TO:  
M-C M 9330.126

OCT 31 1963  
Oct 31 1963

TO: Director, Manned Spacecraft Center  
Houston 1, Texas  
  
Director, Launch Operations Center  
Cocoa Beach, Florida  
  
Director, Marshall Space Flight Center  
Huntsville, Alabama

FROM: Deputy Associate Administrator for Manned  
Space Flight

SUBJECT: Revised Manned Space Flight Schedule

Recent schedule and budget reviews have resulted in a deletion of the Saturn I manned flight program and realignment of schedules and flight mission assignments on the Saturn IB and Saturn V programs. It is my desire at this time to plan a flight schedule which has a good probability of being met or exceeded. Accordingly, I am proposing that a flight schedule such as shown in Figure 1, with slight adjustments as required to prevent "stack-up", be accepted as the official launch schedule. Contractor schedules for spacecraft and launch vehicle deliveries should be as shown in Figure 2. This would allow actual flights to take place several months earlier than the official schedule. The period after checkout at the Cape and prior to the official launch date should be designated the "Space Vehicle Acceptance" period.

With regard to flight missions for Saturn I, MSC should indicate when they will be in a position to propose a firm mission and spacecraft configuration for SA-10. MSFC should indicate the cost of a meteoroid payload for that flight. SA-6 through SA-9 missions should remain as presently defined.

CLASSIFICATION CHANGED

To Unclassified  
Authority of 719 AF Dir. Clerk Office  
Date 4-21-77 Z. L. Martin

It is my desire that "all-up" spacecraft and launch vehicle flights be made as early as possible in the program. To this end, SA-201 and 501 should utilize all live stages and should carry complete spacecraft for their respective missions. SA-501 and 502 missions should be reentry tests of the spacecraft at lunar return velocity. It is recognized that the Saturn IB flights will have CM/SM and CM/SM/LEM configurations.

Mission planning should consider that two successful flights would be made prior to a manned flight. Thus, 203 could conceivably be the first manned Apollo flight. However, the official schedule would show the first manned flight as 207, with flights 203-206 designated as "man-rating" flights. A similar philosophy would apply to Saturn V for "man-rating" flights with 507 shown as the first manned flight.

I would like your assessment of the proposed schedule, including any effect on resource requirements in FY 1964, 1965 and run-out by November 11, 1963. My goal is to have an official schedule reflecting the philosophy outlined here by November 25, 1963.

George M. Low

George E. Mueller  
Deputy Associate Administrator  
for Manned Space Flight

Enclosures:

Figure 1  
Figure 2

FIGURE 1 - FLIGHT SCHEDULE

Saturn I

SA-5	Veh. Dev.	Dec. 1963
SA-6	Apollo R/P	Apr. 1964
SA-7	Apollo R/P	Aug. 1964
SA-9	Meteoroid	Dec. 1964
SA-8	Meteoroid	Apr. 1965
SA-10	Undetermined	Aug. 1965

Saturn IB

SA-101	CS/CS	Jan. 1966
SA-102	CS/CS	Apr. 1966
SA-103	CS/SX/LEM	Jul. 1966
SA-104	" "	Oct. 1966
SA-105	" "	Dec. 1966
SA-106	" "	Feb. 1967
SA-107	Manned	Apr. 1967
SA-108	" "	Jun. 1967
SA-109	" "	Aug. 1967
SA-110	" "	Oct. 1967
SA-111	" "	Dec. 1967
SA-112	" "	Feb. 1968

Saturn V

SA-501	"All-Up" Vehicle and R/C Re-entry	Jan. 1967
SA-502	" "	Apr. 1967
SA-503	Lunar Mission Conf.	Jul. 1967
SA-504	" "	Oct. 1967
SA-505	" "	Dec. 1967
SA-506	" "	Feb. 1968
SA-507	Manned	Apr. 1968
SA-508	" "	Jun. 1968
SA-509	" "	Aug. 1968
SA-510	" "	Oct. 1968
SA-511	" "	Dec. 1968
SA-512	" "	Feb. 1969
SA-513	" "	Apr. 1969
SA-514	" "	Jun. 1969
SA-515	" "	Aug. 1969

EXHIBIT A - DELIVERY SCHEDULES (CONT.)

TABLE A - DELIVERY SCHEDULES

TABLE A

SA-5  
SA-6  
SA-7  
SA-9  
SA-8  
SA-10

DELIVERED

Delivered  
Jan. 1964  
May 1964  
Sep. 1964  
Dec. 1964  
Feb. 1965

S/O

Delivered  
Jan. 1964  
May 1964  
Sep. 1964  
Dec. 1964  
Undetermined

TABLE B

SA-201  
SA-202  
SA-203  
SA-204  
SA-205  
SA-206  
SA-207  
SA-208  
SA-209  
SA-210  
SA-211  
SA-212

Aug. 1965  
Nov. 1965  
Feb. 1966  
May 1966  
Jul. 1966  
Sep. 1966  
Nov. 1966  
Jan. 1967  
Mar. 1967  
May 1967  
Jul. 1967  
Sep. 1967

Jan. 1965  
Sep. 1965  
Jan. 1966  
Mar. 1966  
May 1966  
Jul. 1966  
Sep. 1966  
Nov. 1966  
Jan. 1967  
Mar. 1967  
May 1967  
Jul. 1967

TABLE C

SA-101  
SA-102  
SA-103  
SA-104  
SA-105  
SA-106  
SA-107  
SA-108  
SA-109  
SA-110  
SA-111  
SA-112  
SA-113  
SA-114  
SA-115

Jun. 1966  
Oct. 1966  
Jan. 1967  
Apr. 1967  
Jun. 1967  
Aug. 1967  
Oct. 1967  
Dec. 1967  
Feb. 1968  
Apr. 1968  
Jun. 1968  
Aug. 1968  
Oct. 1968  
Dec. 1968  
Feb. 1969

May 1966  
Aug. 1966  
Nov. 1966  
Feb. 1967  
Apr. 1967  
Jun. 1967  
Aug. 1967  
Oct. 1967  
Dec. 1967  
Feb. 1968  
Apr. 1968  
Jun. 1968  
Aug. 1968  
Oct. 1968  
Dec. 1968