

manned Command-Service Module flights and Lunar Module development flights on the uprated Saturn I launch vehicle has now been adjusted in the light of recent events.

The first Apollo/Saturn I program phase included unmanned launch vehicle and Command-Service Module flights and was completed with the successful AS-202 mission in August 1966. Remaining phases include unmanned Lunar Module development, manned Command-Service Module long duration operations, and manned missions involving orbital operation of the Command-Service Module with the Lunar Module. This last phase was planned to utilize uprated Saturn I vehicles in dual launches. All of the Apollo/Saturn I flights are limited to low earth orbits.

The first Saturn V phase consists of unmanned launch vehicle and spacecraft development flights. Manned lunar mission simulation flights with the Apollo Saturn V are the next to last phase of the program. The Apollo flight program will continue in the Apollo/Saturn V missions achieving manned lunar landing and return.

Flight mission timetable

To accomplish the manned lunar landing before the end of 1969, we established some time ago, a timetable for carrying out each of the flight mission phases (fig. 5, MC65-5185). Changes to the Apollo/Saturn schedule within these milestones were announced in November 1966 as the result of certain launch vehicle and spacecraft development difficulties. Because of the spacecraft fire in January 1967, the schedule was further modified in February 1967 (fig. 6, MC67-5782).

We plan to continue with the three unmanned launches—AS-206, 501, and 502—scheduled for 1967. AS-206 will be an unmanned qualification of the Lunar Module, while AS-501 and AS-502 will be unmanned qualification flights for the Saturn V launch vehicle and Command and Service Modules.

Manned flights, however, scheduled to begin in 1967, are under study and will be adjusted as necessary after the findings of the Apollo 204 Board have been assessed.

MAJOR MSF MILESTONES

GEMINI	1964 - 1ST GEMINI FLIGHT
	1965 - 1ST GEMINI MANNED FLIGHT
	1966 - 1ST GEMINI RENDEZVOUS FLIGHT
	1967 - GEMINI OPERATIONS
APOLLO	1966 - 1ST APOLLO UPRATED SAT I UNMANNED FLIGHT
	1967 - 1ST APOLLO UPRATED SATURN I MANNED FLIGHT
	1967 - 1ST APOLLO SATURN V UNMANNED FLIGHT
	1968 - 1ST APOLLO SATURN V MANNED FLIGHT
	1969 - APOLLO OPERATIONS

NASA MC65-5185
1/26/65

FIGURE 5