

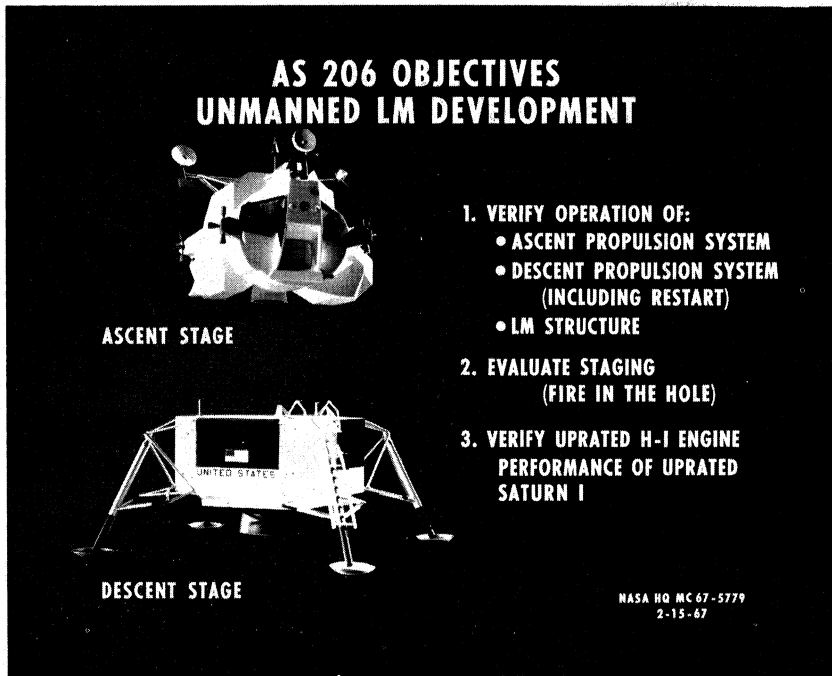


FIGURE 16

mission status is made. Each review leads to a decision whether to proceed to the next period of continuing activity, to an alternate mission, or return to earth.

Dual mission flights

In the final phase of flight tests planned for the uprated Saturn I launch vehicle, each mission except the last (AS-212) consists of two flights. In the dual missions, one vehicle carries the manned Command-Service Module. The second carries the unmanned Lunar Module, launched about a day later. The objectives are to achieve rendezvous and docking of the two vehicles in earth orbit, followed by astronaut transfer to the Lunar Module and manned operation to verify its functional capability. The astronauts will return to the Command Module to conclude the flight with entry, splashdown and recovery.

Apollo/Saturn V unmanned missions

In parallel with the Apollo/Saturn I, we are developing the Apollo/Saturn V launch vehicle, which is designed for the lunar missions. Two of the three stages are as yet untested in flight. The 3rd stage and the Instrument Unit benefit from the experience being gained with these systems in the Saturn I program.

Schedule adjustments

As I mentioned earlier, development difficulties caused a revision to the Apollo/Saturn V program schedule in November 1966. Spacecraft and launch vehicle concerns, particularly those connected with the 2nd stage of the Saturn V launch vehicle, caused us to adjust the first two Apollo/Saturn V missions. The first Saturn V flight, an unmanned orbital mission, was moved from the first to the second quarter of 1967. The second Saturn V flight, also unmanned, was rescheduled from the first to the second half of 1967. No rescheduling was required by the loss of a Saturn V 3rd stage during test in January 1967, because of the favorable production status of subsequent stages.