

APOLLO APPLICATIONS

(Set No. 1)

Question 1. Because the delay in the Apollo program will cause, undoubtedly, a similar delay in the first flight of the Apollo Applications program, why does NASA still need, in fiscal year 1968, all of the funds it has requested for hardware modifications, experiments, and mission support in the Apollo Applications program?

Answer 1. A delay in the Apollo program will not necessarily impact the AAP program which has been deliberately structured so as to be able to absorb some possible Apollo problems. The Apollo program has not yet determined the extent to which their delay will affect the 1968 Earth orbit flights. It is likely that several AAP flights will be possible in calendar year 1968. Fiscal year 1968 funds are needed for AAP experiments, hardware modifications, and mission support to be available for calendar year 1968 flights that are not required for Apollo lunar mission simulations.

As was pointed out in the answer to question No. 21 (Apollo program), certain problems may arise in the Apollo program that might not necessarily affect AAP. For example, a problem associated with the Saturn V/Apollo flights may not impact Saturn I/Apollo hardware used by AAP for early missions.

Question 2. In fiscal year 1968 how much money is programmed for actual spacecraft and launch vehicle modification of equipment still in the mainstream Apollo program as opposed to design and development efforts relating to "how to modify" such hardware?

Answer 2. The fiscal year 1968 funds programmed for modification of equipment still in the Apollo mainstream are associated with spacecraft only and are as follows:

CSM: \$1,900,000.

LM: \$5,700,000.

The CSM modifications are related to the orbital workshop mission and the LM modifications are related to the Apollo telescope mount mission. No modifications are planned for the mainstream Apollo launch vehicles.

The definition efforts relating to "how to modify" such hardware are included in the fiscal year 1966 and fiscal year 1967 study activities.

Question 3. The PSAC report on "the Space Program in the Post-Apollo Period" recommends (p. 25) that the orbital workshop should proceed because of the opportunity for 28 to 56 day flights in 1968. In view of the Apollo fire, does NASA still expect an AAP flight in 1968?

(a) *If a flight does not occur in 1968, should NASA still proceed with the orbital workshop?*