

Development of approved space projects beyond the preliminary research stage is centralized in the Air Force because that department already has the greatest responsibility and capabilities in the space development field. To allow the other two Services to continue to enlarge their own research capabilities in space development would cause needless duplication as well as dissipation of scientific resources that can be used for other vital research projects.

*Question 10.* In your opinion, do you feel the aviation industry would have benefitted if all aviation had been placed under the control of a single Service in 1947? What would such a consolidation have achieved?

*Answer:* It would certainly not have been beneficial to place all aviation under control of a single Service, and decisions made at the time reflect this. In the example of aviation, there were and are unique Service requirements which are to a great extent generated by the restricted range capability of certain aircraft. This requires, for example, that a naval task force be equipped with integral aviation capability. However, Earth orbiting systems, by their very nature, are not limited to a local geographic sphere of activity but are global in nature and perform functions on a global basis which can be used by all three military departments, independent of location, provided the orbits are selectively chosen.

In the interest of economy, therefore, joint requirements of all three Services are being formulated and will be the basis for each space development. It may be, in the future, as we become more knowledgeable in the use of space systems that deviations from this approach become evident or desirable. The exceptions clause in the new space directive will accommodate this situation should it arise.

*Question 11.* Please define "preliminary research."

*Answer:* *Preliminary research* means theoretical, exploratory and feasibility efforts including studies, experimentation and model fabrication. *Studies* include theoretical, planning, investigatory feasibility or preliminary design efforts related to the utilization of space for military purposes or in support of assigned military missions or responsibilities. *Experimentation and model fabrication* includes component, instrumentation, subsystem, propulsion, experimental payload and other efforts uniquely or chiefly applicable to or useful for space.

(Whereupon, at 12:35 p.m., the committee recessed to reconvene at 10 a.m., Saturday, March 18, 1961.)