

the atmospheric reentry materials and structures evaluation facility, the lunar mission and space exploration facility; and a cafeteria, project engineering facility, and addition to the central heating and cooling plant.

The major portion of the phase I contract for construction of the lunar receiving laboratory was completed. This work comprises the foundations, structural steel, and building shell as well as the underground radiation laboratory structure and site utilities. Work to be completed this year includes phase II construction of the lunar receiving laboratory contract, comprising interior architectural work and installation of mechanical and electrical systems and laboratory equipment. Also to be completed are the technical services facility, spacecraft control technology laboratory, ultrahigh vacuum space chamber facility, and modifications to the environmental testing laboratory providing an extension to the solar simulation system and increased vacuum pumping capacity.

Our request for fiscal year 1968 at MSC calls for improvements to the environmental testing laboratory which will enhance safety and operational effectiveness. The requirement results from technological developments, new requirements, and experience gained from actual flights. Our request also includes a project which will increase sewage treatment plant operating efficiency, and an access road from a major off-site thoroughfare to the western boundary of the Manned Spacecraft Center.

The Marshall Space Flight Center at Huntsville, Ala., is responsible for the management of all activities leading to the design, development, production, test, and delivery of large launch vehicles and related systems. This includes the direction of the several contractors associated with development, fabrication, and test of all major flight vehicles, engines, and components at locations on the west coast, the Midwest, Louisiana, and Mississippi.

As of June 30, 1966, the capital investment in this facility amounted to \$376,519,000. This figure represents the facilities acquired from the Army as well as those constructed by NASA over a period of years for space vehicle and propulsion systems development.

Test facilities for present and future programs range from stands for testing components up to the giant Saturn first stage vehicle. The comprehensive complex of scientific equipment and facilities constitutes one of the most complete aerospace research and development centers in the country.

Marshall's technical equipment and facilities range from a substantial investment in relatively standard bench equipment, such as oscilloscopes, recorders, microscopes, and measuring equipment through unique laboratory equipment such as environmental chambers, vibration and shock testers, and particle accelerators, to complete rocket vehicle testing stands. Large high bay areas with associated cranes, support shops, clean rooms and process development laboratories have the capability to accommodate any large hardware items such as complete payloads or rocket stages. This could include manufacture of prototypes or flight items. The R. & D. facility requirements for many of the potential aerospace projects could be largely satisfied by existing capability at Huntsville with relatively minor facility expenditures.