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Data Tabulation

1. Jet Propulsion Static Laboratory (Materials and Structures Division)

2. \$333,721.00

3. In fiscal year 1955, this building was being used almost entirely for research projects on turbojet engines, particularly the improvement of air-cooled turbine blades. No major structural changes have been made, but the work emphasis has been shifted to more advanced types of propulsion. Currently, the building houses the following projects:

- 1.) investigation of insulations intended for use on the outer surfaces of cryogenic fuel tanks of missiles or space vehicles,
- 2.) investigation of materials used for solid rocket nozzle inserts,
- 3.) a shock tube study of chemical problems involving dissociation, ionization, recombination, relaxation, etc., within boundary layers,
- 4.) corrosion of liquid metals at elevated temperatures for space nuclear-electric systems,
- 5.) study of gamma radiation shielding,
- 6.) heat exchangers using liquid metals, and
- 7.) mechanism of boiling in the absence of a gravity field (by dropping tank with camera attached)

4. (a) 4 Research staff
(b) 0
(c) 5 Support staff

5. Fiscal Year 1961 or later peak staffing

6. (a) 9 Peak research staff
(b) 0
(c) 9 Peak support staff

LEWIS

110-71

Washington, D. C.
August 7, 1959

FROM: NASA Headquarters

TO: Langley
Ames
Lewis
HSFS

Subject: Status of NASA research facilities and major research groups

1. NASA Headquarters has need for information on the status over the past five years of NASA research facilities and major research groups not usually identified with individual research facilities. The immediate object of this survey is to develop information about changes in mission of research groups and increases or decreases in the intensity of utilization of facilities including modification and deactivation.

2. The requested information is described on enclosure A and should be tabulated approximately as outlined in enclosure B. This information is needed primarily to show trends and the figures submitted should only be good enough for that purpose. The data will be useful in budget discussions and are needed in NASA Headquarters by September 1, 1959.

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Ira H. Abbott

Ira H. Abbott
Director of Aeronautical
and Space Research

Enclosures - 2

REL:ilk

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