**ELECTRONIC INSTRUMENT LABORATORY**

**Description:**
- Offices, 16,000 square feet
- Laboratories and shops, 29,000 square feet
- Mechanical equipment, halls, and miscellaneous, 15,000 square feet
- Special: Clean rooms
  - Thermal and dust controlled areas
  - Vibration isolated areas
  - Photo micrographic facilities
- Scheduled Completion: July, 1966

<table>
<thead>
<tr>
<th>Cost: Fiscal Year</th>
<th>C of F</th>
<th>Project No.</th>
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</thead>
<tbody>
<tr>
<td>1963</td>
<td>$109,000</td>
<td>2341</td>
</tr>
<tr>
<td>1964</td>
<td>$2,731,000</td>
<td>2341</td>
</tr>
<tr>
<td>*</td>
<td>$2,840,000*</td>
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</tr>
</tbody>
</table>

* Budget Allotment
1. REPORTING INSTALLATION: Langley Research Center
   Hampton, Virginia

2. FACILITY NAME: Electronic Instrument Laboratory

3. LOCATION (if other than in 1. above): Same as 1.

4. FUNCTIONAL NAME: Electronic Instrument Laboratory

5. TECHNOLOGICAL AREAS SUPPORTED: Electronic component development; optical
   component development; and environmental testing of components, subsystems,
   and systems.

6. NARRATIVE DESCRIPTION OF FACILITY CAPABILITIES & FUNCTIONS:
   This laboratory consists of facilities for the development of sensors, electronic
   components, and subsystems. Facilities include: diffusion furnaces, epitaxial growth
   furnace, vacuum deposition chambers, integrated circuit processing equipment, electron
   microscope, X-ray diffraction spectroscope, optical bench, spectrometers, interferometer,
   scanning monochrometer, and other supporting equipment. Also included in this
   laboratory are facilities for environmental testing of components and flight payloads. This
   includes vibration tables, shock machine, centrifuge, humidity chamber, altitude chamber,
   temperature chambers, automatic integrated circuit tester, automatic semi-conductor tester,
   and supporting analytical instruments. The laboratory is designed to supply liquid nitrogen,
   propane, chilled water, high pressure air, and carbon dioxide to rooms requiring these special services.
6. NARRATIVE DESCRIPTION

Application - Aeronautics and Space  Category - Electronics and Instrumentation

7. POTENTIAL:

8. PLANS:

9. BLDG. NO.  1202
10. YR. BUILT:  1966
11. FAC. CAT. CODE:  310-60

12. INITIAL COST:  $2,840  K
13. NASA B.O.D.  1966
14. STATUS CODE:  Constr.

15. ACCUM. COST:  $2,840  K
16. LIFE EXPECT:  Indef.
17. OWNER CODE:  NASA

18. OPER. CODE:  NASA
19. CONTRACTOR NAME (if contr. oper.): 

20. OTHER SOURCES OF INFO:

21. COGNIZANT ORGANIZATIONAL COMPONENT: Flight Instrumentation Division

22. LOCAL OFFICE TO CONTACT FOR FURTHER INFO:
    Chief, Research Models and Facilities Division (Code 56.000)
    Phone: (Area Code 703) 722-7961, extension 4745