INVENTORY FORM OF HISTORIC PLACES

Agency: National Aeronautics and Space Administration Date: 12/30/71
Langley Research Center

1. Name of property: Langley Research Center Personnel Building (See item 4 below)

Building No. 587

2. Location of property:
   A. State and City:
      Virginia, Hampton (Langley Air Force Base)
   B. Latitude and Longitude:
      N 37°04'44" W 76°22'04"
   C. Township, Range & Section:
   D. Other legal description:

E. Map Reference:

3. Nature of Property:
   A. District ( ) Site ( ) Building (x) Object ( )

   B. Description, present condition and use:
      A complete description of the building is contained in the
      attached material. Its present condition is: sound, but in
      need of rehabilitation (painting and improved air conditioning).
      It is presently being used mainly by the Personnel Division of
      the Langley Center and it also provides one of the two
      cafeterias available to Center personnel.

4. Importance of Property:
   Building No. 587 of the Langley Research Center was the first
   research laboratory of the National Advisory Committee for
   Aeronautics (NACA), the predecessor agency of the present
   National Aeronautics and Space Administration (NASA). It has
   been known, consecutively, as the Research Laboratory Building,
   the Administration Building, and the Personnel Building.

5. Names and addresses of persons preparing this inventory:
Robert W. Mulac, Mail Stop 246
NASA Langley Research Center
Hampton, Virginia 23365

Office Phone: Area Code 703, 827-2733
June 30, 1937

ADMINISTRATIVE BUILDING
(Original "Research Laboratory Building")

Use of structure - to house administrative offices, technical library, instrument and photographic laboratories, and headquarters of the various divisions.

Authority - Naval Act (1917) approved August 9, 1916 (Public No. 241 - 64th Congress).
Deficiency Act approved October 6, 1917 (Public No. 64 - 65th Congress).

Location - Plot 16, Langley Field, Va. Space on Langley Field tentatively assigned by War Department March 1, 1917; officially approved April 24, 1919.

Main contractors -
No. 2/17, June 18, 1917, Donn and Deming, Washington, D. C., architects' services; total payments - $1,128.63.

Dimensions of building - 132' x 55' x 31' (average height)
Ground area - 7,300 sq.ft.
Second-floor area - 6,900 sq.ft.
Cubic contents - 225,000 cu.ft.
Character - Reinforced concrete construction
Type and thickness of walls - Brick - 13 in. thick
Type and thickness of ground floor - Concrete - 4 in. to 7 in. thick
Type and thickness of second floor - Concrete - 5 in. thick
Type of roof - Slat on concrete slab
### Administrative Building

**- 2 -**

Cost of Administrative Building complete, including design, construction, and modifications  
- $123,275.63

Cost per cu.ft., including modifications to June 30, 1938  
- $0.54 (original cost per cu.ft. $0.436)

Cost of Administrative Building equipment  
- $78,818.17

#### Detailed Costs of Administrative Building and Equipment

<table>
<thead>
<tr>
<th>Item</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cost of original Administrative Building structure</td>
<td>$93,207.76</td>
</tr>
<tr>
<td>Additional structural items and modifications from date of completion to June 30, 1938</td>
<td>$19,197.60</td>
</tr>
<tr>
<td>Engineering services (5% of structural costs - $117,405.36)</td>
<td>$5,870.27</td>
</tr>
<tr>
<td>- Inventoried instrument laboratory equipment</td>
<td>$19,417.96</td>
</tr>
<tr>
<td>- Inventoried photographic laboratory equipment</td>
<td>$11,481.43</td>
</tr>
<tr>
<td>- Estimated cost of library books</td>
<td>$4,799.72</td>
</tr>
<tr>
<td>- Inventoried furniture and office equipment in various sections</td>
<td>$21,332.36</td>
</tr>
<tr>
<td>Inventoried cafeteria equipment</td>
<td>$1,933.25</td>
</tr>
<tr>
<td>Estimated cost of non-inventoried cafeteria equipment (purchased from funds of N.A.C.A. Exchange)</td>
<td>$1,929.23</td>
</tr>
<tr>
<td>Inventoried scientific, electrical, and mechanical equipment in various sections not covered above</td>
<td>$12,038.59</td>
</tr>
<tr>
<td>Miscellaneous non-inventoried equipment</td>
<td>$2,423.87</td>
</tr>
<tr>
<td>Additional services and equipment charged to permanent job orders which were in effect prior to July 1925 for new equipment and alterations in physics laboratory, photographic laboratory, drawing room, machine shop, and wood shop. (Note: Drawing room, machine shop, and wood shop moved to Service Building in March 1926 and all subsequent charges for these sections included in Service Building)</td>
<td>$3,411.71</td>
</tr>
</tbody>
</table>

Total to June 30, 1933  
- $202,093.80

**June 30, 1938**

**7/28/39**
June 30, 1912

ADMINISTRATIVE BUILDING
(Original "Research Laboratory Building")

Use:
To house administrative activities and photographic laboratory.

Authority:
Naval Act (1917) approved August 9, 1916 (Public No. 241 - 64th Congress).
Deficiency Act approved October 6, 1917 (Public No. 64 - 65th Congress).

Location:
Plot 16, Langley Field, Va. Space on Langley Field tentatively assigned by War Department March 1, 1917; officially approved April 24, 1919.

History:
This building originally provided office space for the executive offices, division chiefs, a large portion of their respective staffs, the machine shop, wood shop, drawing room, and cafeteria. The drawing room, wood shop, and machine shop were moved to other quarters in March, 1926.

Construction:

Dimensions of building
132' x 55' x 31' (average height)

Ground area
7,300 sq ft

Second-floor area
6,900 sq ft

Cubic contents
225,000 cu ft

Character
Reinforced concrete construction

Type and thickness of walls
Brick - 13 in. thick

Type and thickness of ground floor
Concrete - 4 in. to 7 in. thick

Type and thickness of second floor
Concrete - 5 in. thick

Type of roof
Slag on concrete slab
ADDITION TO ADMINISTRATIVE BUILDING

Use:
To provide additional space for executive offices, library, cafeteria, and auditorium.

Authority:
Second Deficiency Appropriation Act fiscal year 1939; approved May 2, 1939. Public No. 61, 76th Congress.

Location:
Plot 16, Langley Field, Va.; approved by Secretary of War October 3, 1940.

History:
Preliminary work on the addition to administration building started July 1, 1940. The addition was placed in use February, 1942.

Construction:

<table>
<thead>
<tr>
<th></th>
<th>North Wing</th>
<th>South Wing</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions of building</td>
<td>75' - 0 1/2&quot; × 43' - 10 1/2&quot; × 32' - 2 1/2&quot;</td>
<td>75' - 0 1/2&quot; × 43' - 10 1/2&quot; × 32' - 2 1/2&quot;</td>
<td>150' - 1&quot; × 87' - 9&quot; × 32' - 2 1/2&quot;</td>
</tr>
<tr>
<td>Ground area (approx.)</td>
<td>3,300 sq ft</td>
<td>3,300 sq ft</td>
<td>6,600 sq ft</td>
</tr>
<tr>
<td>2nd floor area (usable)</td>
<td>2,607 sq ft</td>
<td>2,747 sq ft</td>
<td>5,354 sq ft</td>
</tr>
<tr>
<td>Cubic contents (usable)</td>
<td>66,708 cu ft</td>
<td>63,336 cu ft</td>
<td>133,044 cu ft</td>
</tr>
</tbody>
</table>

Character
Reinforced concrete footings on wood pilings, steel floor joist resting on brick pilasters - brick walls, concrete with built-up roofing applied. Both wings match architectural features of existing administration building.

Type and thickness of walls
Brick pilasters 16-3/4" thick, with 12 1/2" thick brick panels. The same stone bands as appearing in the existing building are continued in the new wings.

Type and thickness of floor
1st floor has a 5" thick reinforced concrete slab - 2nd floor has a 3" reinforced concrete slab.

Type of roof
3" reinforced concrete roof slab with a built-up roofing applied.
June 30, 1942

Cost Summary

Structure cost of administrative building

Original research laboratory building $118,355.60
Two additional new wings $291,197.92

Cost per cu ft 0.813

Cost of administrative building equipment 77,446.53

Detailed Costs

Original research laboratory building

Structure costs $98,207.76
Additional structural items and modifications charged to job orders since completion of building $118,355.60

Additions to original building - Two new wings

Structure costs 159,755.34
Built-in equipment 41,614.52
Additional structural items charged to job orders since completion of the structure 172,842.32

Inventoried mechanical equipment 37,466.03
Inventoried instruments 1,405.09
Inventoried furniture 29,059.18
Inventoried electrical equipment 2,009.71
Inventoried glassware equipment 287.06
Library books 6,621.47
June 30, 1942

Main Contractors

No. 2/17, June 18, 1917, Donn and Deming, Washington D. C., architects' services; total payments - $1,128.63.


