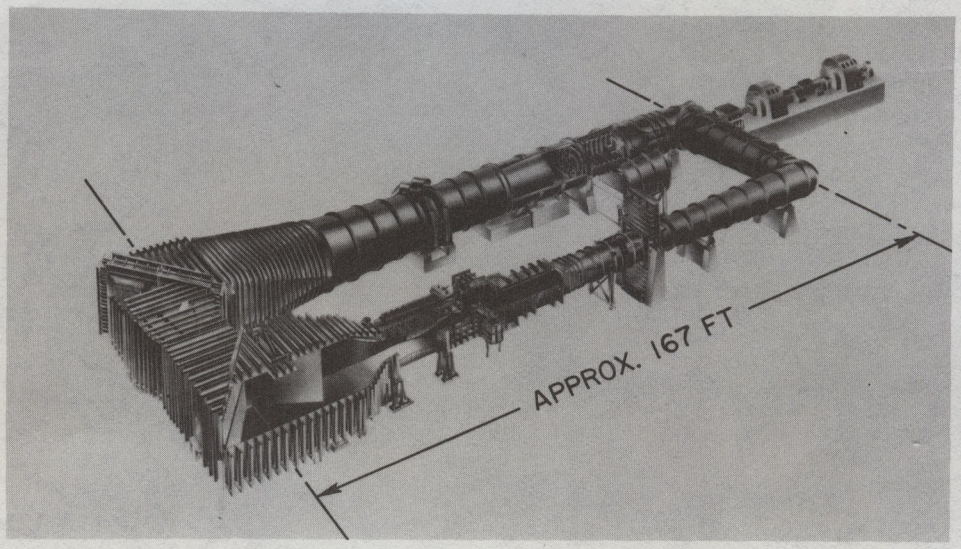
TECHNICAL FACILITIES RESUME

DATE OF RESUME: July 1, 1966
FACILITY NO: 04-00-47-00

1. REPORTING INSTALLATION: Langley Research Center
Hampton, Virginia

2. FACILITY NAME: 4 by 4 Foot Supersonic Pressure Tunnel

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



4. FUNCTIONAL NAME: Wind Tunnel, Supersonic Pressure 4 ft. by 4 ft.

5. TECHNOLOGICAL AREAS SUPPORTED: Force, moment, and pressure studies with air as the test medium.

6. NARRATIVE DESCRIPTION OF FACILITY CAPABILITIES & FUNCTIONS:

Model mounting consists of various sting arrangements, axial and lateral movement are available, and side-wall support. The test section is 4.5 feet square and 7 feet long, and can accommodate models to 40 inch length. Examples of operating conditions are as follows:

Mach number	1.25 to 2.6
Stagnation pressure, psia.	4 to 30
Stagnation temperature, °R	570
Dynamic pressure, lb/sq. ft.	250 to 1368
Reynolds number per foot	1.4×10^6 to 6.6×10^6

Application - Aeronautics and Space Category - Fluid Flow

6. NARRATIVE DESCRIPTION

7. POTENTIAL:

8. PLANS:

9. BLDG. NO. 1236 10. YR. BUILT: 1948** 11. FAC. CAT. CODE: 330-10

12. INITIAL COST: $ 909 ** K 13. NASA B.O.D. 1948 14. STATUS CODE: Active

15. ACCUM. COST: $ 3,407 ** K 16. LIFE EXPECT. Indef. 17. OWNER CODE: NASA

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

** This apparatus only

20. OTHER SOURCES OF INFO: "Characteristics of Nine Research Wind Tunnels of the Langley Aeronautical Laboratory, NACA 1957"

21. COGNIZANT ORGANIZATIONAL COMPONENT: Full-Scale Research 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