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 x 10^6 to 6.6 x 10^6

   Application - Aeronautics and Space       Category - Fluid Flow
7. POTENTIAL:

8. PLANS:


15. ACCUM. COST: $3,407** 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