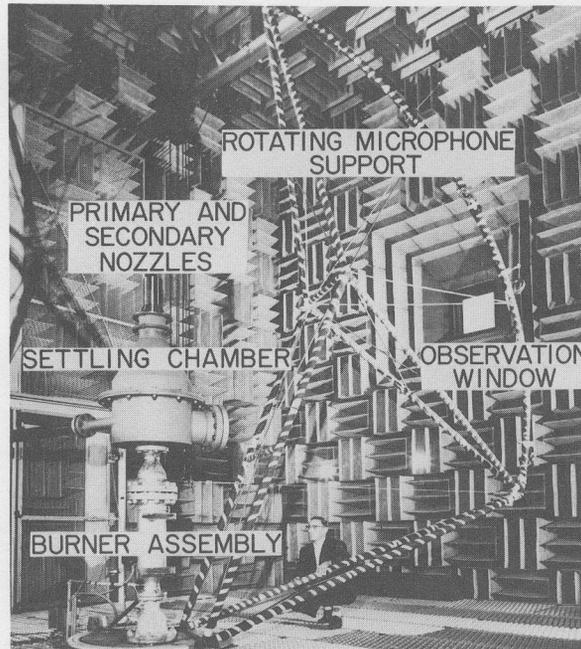

TECHNICAL FACILITIES RESUME**DATE OF RESUME:** July 1, 1966
FACILITY NO: 04-00-07-00

1. REPORTING INSTALLATION: Langley Research Center
Hampton, Virginia
2. FACILITY NAME: Noise Research Laboratory
3. LOCATION (if other than in 1. above): Same as 1.



4. FUNCTIONAL NAME: Noise Research Facility
5. TECHNOLOGICAL AREAS SUPPORTED: Noise studies

6. NARRATIVE DESCRIPTION OF FACILITY CAPABILITIES & FUNCTIONS:

The anechoic chamber (27 by 27 by 27 feet) composed of acoustic wedges, has walls with approximately 99 percent absorption efficiency. The chamber is also used to measure discrete noise from jet engine compressors.

The noise generator is a propane burner with an air supply of 400 psi and a jet temperature of 1500°F. Also three-stage transonic research compressor, 25 lb/sec weight flow.

The noise survey is by means of microphones on a rotating boom.

Application - Aeronautics and Space Category - Materials and Structures

6. NARRATIVE DESCRIPTION

7. POTENTIAL:

8. PLANS:

9. BLDG. NO.	<u>1218-A</u>	10. YR. BUILT:	<u>1966**</u>	11. FAC. CAT. CODE:	<u>690-10</u>
12. INITIAL COST: \$	<u>740 **</u> K	13. NASA B.O.D.	<u>1966</u>	14. STATUS CODE:	<u>Active</u>
15. ACCUM. COST: \$	<u>740 **</u> K	16. LIFE EXPECT.	<u>Indef.</u>	17. OWNER CODE:	<u>NASA</u>
18. OPER. CODE:	<u>NASA</u>	19. CONTRACTOR NAME (if contr. oper.):			

** This apparatus only

20. OTHER SOURCES OF INFO: "Effects of Temperature on Noise of By-pass Jets as Measured in the Langley Noise Research Facility" NASA TND 2378

21. COGNIZANT ORGANIZATIONAL COMPONENT: Dynamic Loads 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