

# LANGLEY RESEARCH CENTER

FACILITY LOCATION Hampton, Virginia 23665  
FACILITY NUMBER 1234  
FACILITY NAME Jet Exit Test Facility  
FUNCTIONAL NAME Test Facility, Jet Exit  
TECHNOLOGICAL AREAS Force, pressure, and propulsion studies under static test conditions

INITIAL COST		YR. BUILT	1945	STATUS CODE	Active
ACCUM. COST	\$ 143 K	NASA B.O.D.	1970*	OWNER CODE	NASA
LIFE EXPECT.	Indef.			OPER. CODE	NASA

\* Completion of last major modification

CONTRACTOR NAME  
(if contr. oper.)

POTENTIAL

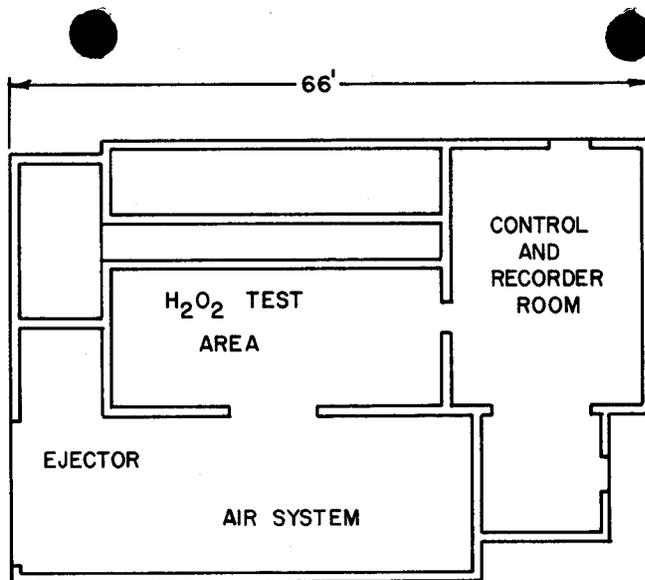
PLANS

OTHER INFO SOURCES

COGNIZANT ORG. High-Speed Aircraft Division  
COMPONENT

LOCAL CONTACT FOR Chief, Research Facilities Engineering Division, Code 56.000; (804)  
FURTHER INFO 827-3171

January 1974



### DESCRIPTION

This facility is used as a static test area for jet-exit powered models. Jet simulator thrust performance measurements can be obtained for blown jets using decomposition of hydrogen peroxide or dry, cold, high-pressure air (15 lb/sec at 1000 psi). An air-driven ejector is available for reducing back pressure to about 1/2 atm for use with air-driven turbofan simulators. Hydrocarbon-fueled and bipropellant propulsion systems can be accommodated. Data are recorded with 99 channels on a Beckman 210 and reduced off-site with a CDC 6600 computer system. Models can be mounted on sting-struts, on floor struts, or on a thrust stand ahead of the ejector.