

# LANGLEY RESEARCH CENTER

FACILITY LOCATION Hampton, Virginia 23665  
FACILITY NUMBER 645  
FACILITY NAME Spin Tunnel  
FUNCTIONAL NAME Wind Tunnel, Vertical Spin  
TECHNOLOGICAL AREAS Investigation of spin characteristics of aircraft and capsules, decelerators, and recovery devices in vertical descent

INITIAL COST	\$ 100 K	YR. BUILT	1941	STATUS CODE	Active
ACCUM. COST	\$ 147 K	NASA B.O.D.	1941	OWNER CODE	NASA
LIFE EXPECT.	Indef.			OPER. CODE	NASA

CONTRACTOR NAME  
(if contr. oper.)

POTENTIAL

PLANS Refurbishment of the motor and tunnel speed control system, improvement of tunnel air flow, and renovation of the existing control room and support space are planned for FY 1975.

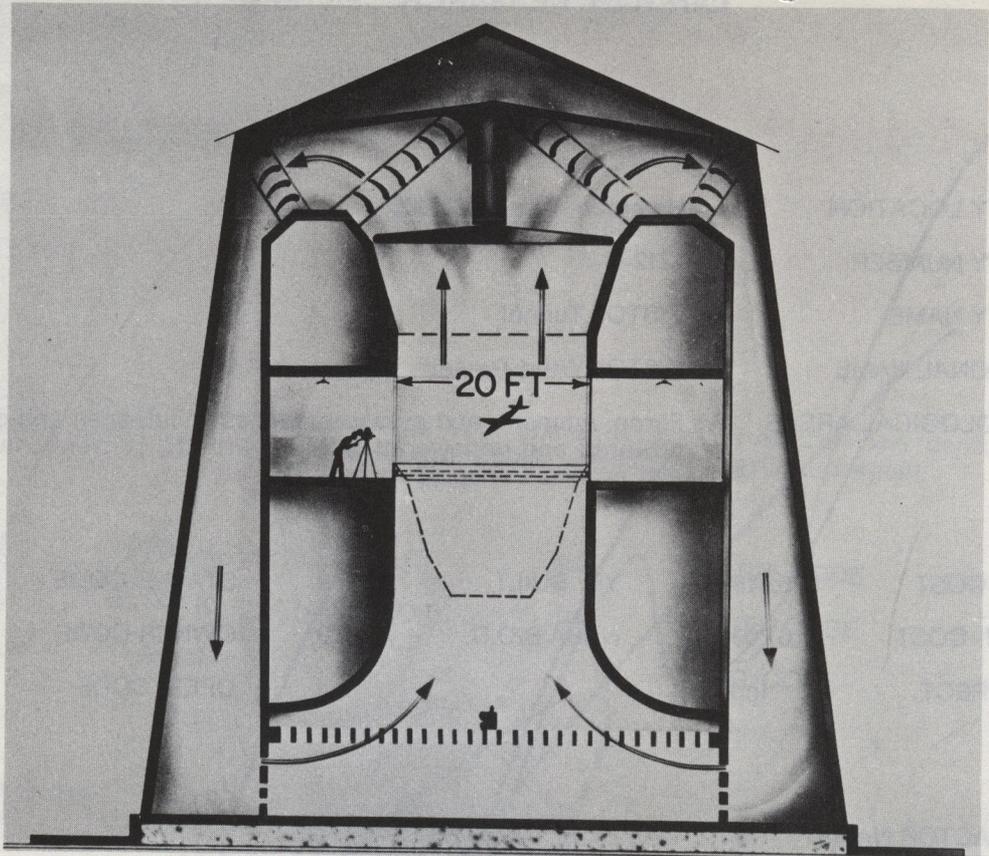
OTHER INFO SOURCES Characteristics of Major Active Wind Tunnels at the Langley Research Center, NASA TM X-1130, 1965

COGNIZANT ORG. Low-Speed Aircraft Division

COMPONENT

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

January 1974



#### DESCRIPTION

The test section is vertical with 12 sides, 20 ft across the flats. The vertical test section is 25 ft long with a closed throat and annular return passage. Tunnel speed is variable from 0 to 90 ft/sec with acceleration to 15 ft/sec<sup>2</sup> and deceleration to 25 ft/sec<sup>2</sup>. Stagnation pressure is atmospheric; the turbulence factor is 2; and the Reynolds number per ft is 0 to  $0.62 \times 10^6$ . The test medium is air.