

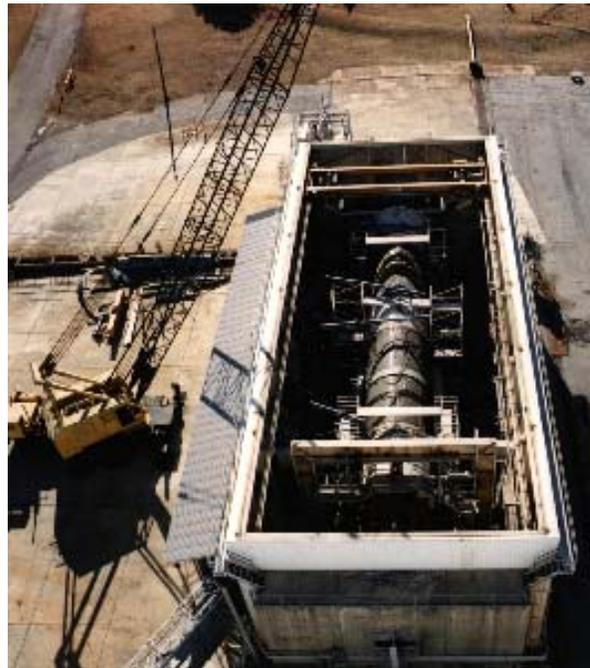


HAZARDOUS STRUCTURAL TEST FACILITY

Purpose:

To provide structural strength and pressurization test capabilities in an area controlled for hazardous test operations.

The mechanical load control and data acquisition and processing systems described for the “Large Structure Quasi-Static Load Facility” are common to this facility and provide identical features and performance characteristics. The test bay, measuring 40 x 94 x 48 ft, has a 5-ft thick reinforced concrete floor with 12-ft thick end walls capable of reacting loads of 2,500,000 lbsf. The roof is removable for easy access to install and remove large structural test articles. A hydro accumulator pressurization system allows rapid automatic pressurization of structures within the building. The floor is below grade and designed for containment of pressurization fluid in the event of test article rupture. This system includes a 3,000-gallon water tank as well as 500 and 3,000-gallon air tanks which are connected to 3,500 pounds per square inch gauge (psig) missile grade air through a pressure reduction station. An overhead bridge crane has dual independence trolleys with hooks rated at 5,000 lb available for test article handling.



POINT-OF-CONTACT:

Ricky Wilbanks / ED27
(256) 544-4147
ricky.wilbanks@msfc.nasa.gov