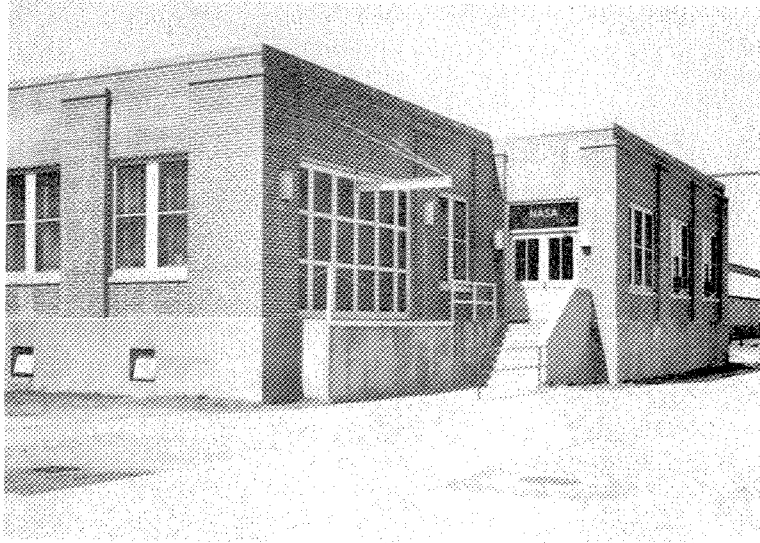


IMPACTING STRUCTURES FACILITY



Description: Consists of a shop and a test area for simulating both hard-surface and water landings.

Hard-surface length is 300 feet, in the monorail catapult area 200 feet. Water length is 1500 feet.

Test Equipment:

- Pendulum launchers for vertical type landing impact investigations of models of manned spacecraft.
- Monorail launcher and catapult launcher for horizontal type landing investigations of aircraft and spacecraft.
- Slingshot launcher for vertical type landing impact investigations of instrument packages and nose cones at model test speeds up to 150 f.p.s.
- Can accommodate scale dynamic models up to 150 pounds.

Data: Landing accelerations and motions  
Turnover limits of stability  
Water impact pressures

Operational - originally operated as a towing tank, 1942 - 1958  
in its present function since 1958

Cost:	<u>Fiscal Year</u>	<u>S &amp; E</u>	<u>C of F</u>	<u>Project No.</u>
	1939 . . .		\$447,971	8
	1948 . . .	\$63,529		
	1950 . . .	31,324		
	1956 . . .	7,615		
	1962 . . .	12,256		
	1963 . . .	13,742		
	Total =	\$128,466	\$447,971	