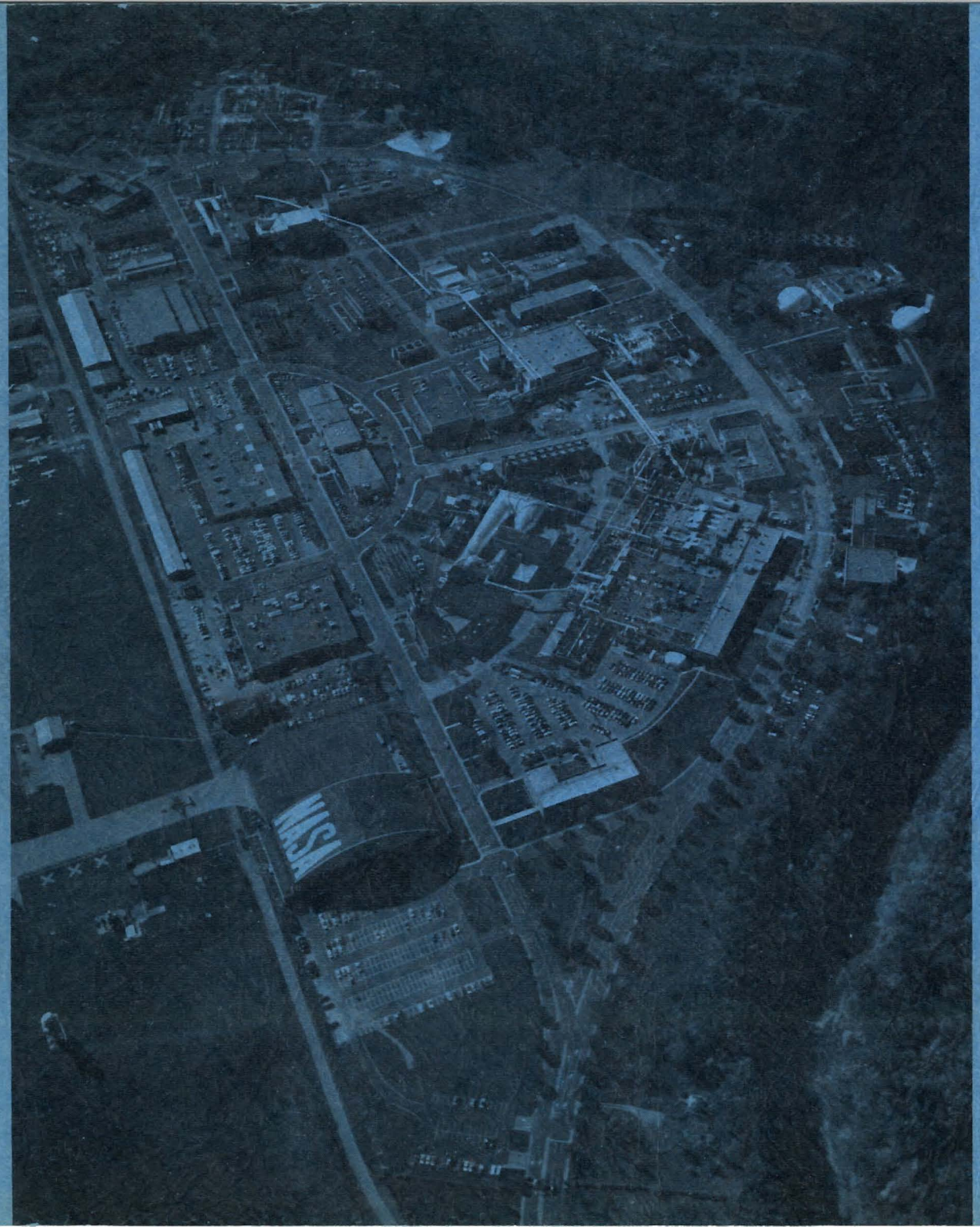
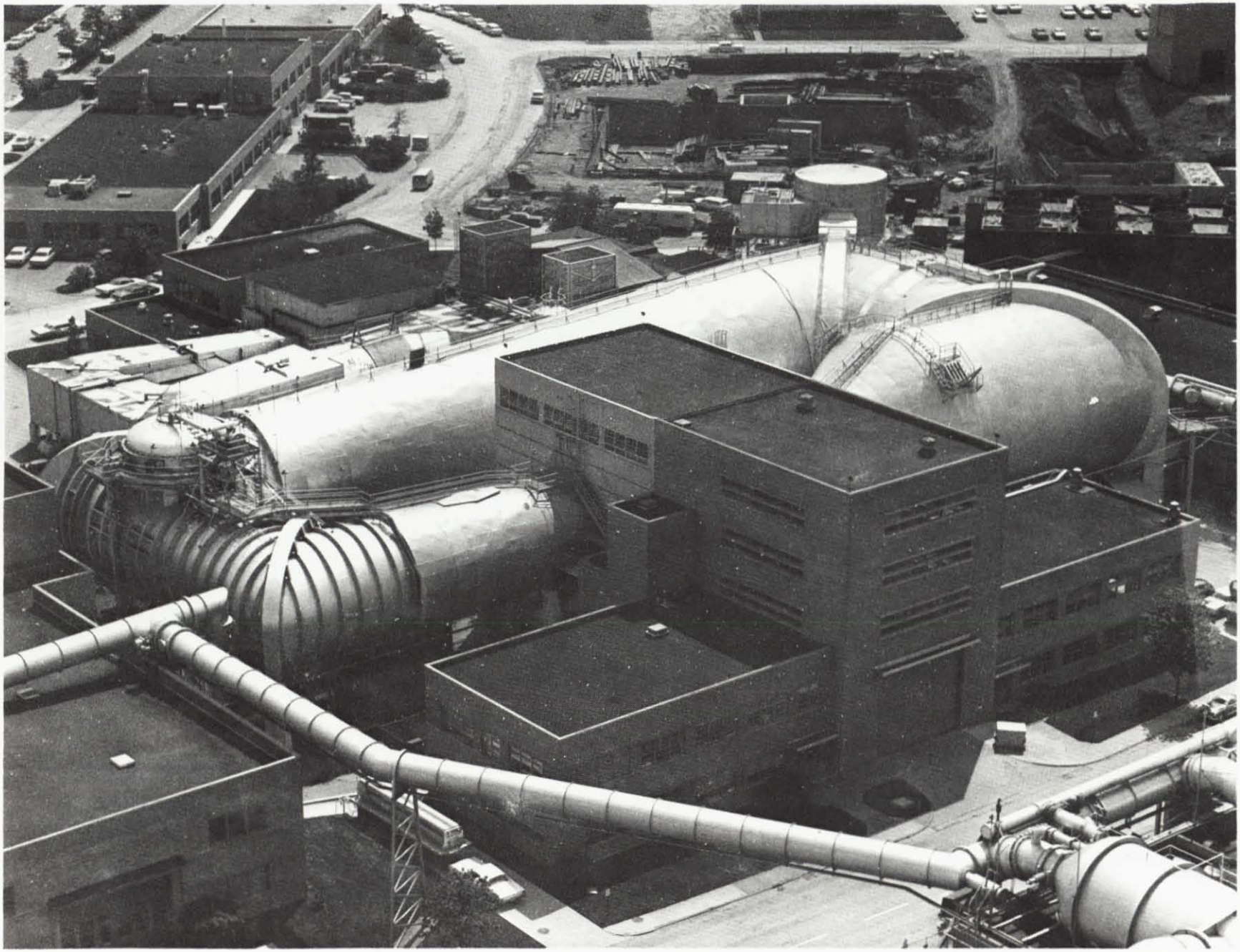


Joe Yuska

LEWIS RESEARCH CENTER

BUILDINGS AND FACILITIES

APRIL 1975



NAME: SPACE POWER CHAMBERS	CAPITAL COST	SURVEY DATE	BLDG.
	2,816,381	APRIL 1975	7

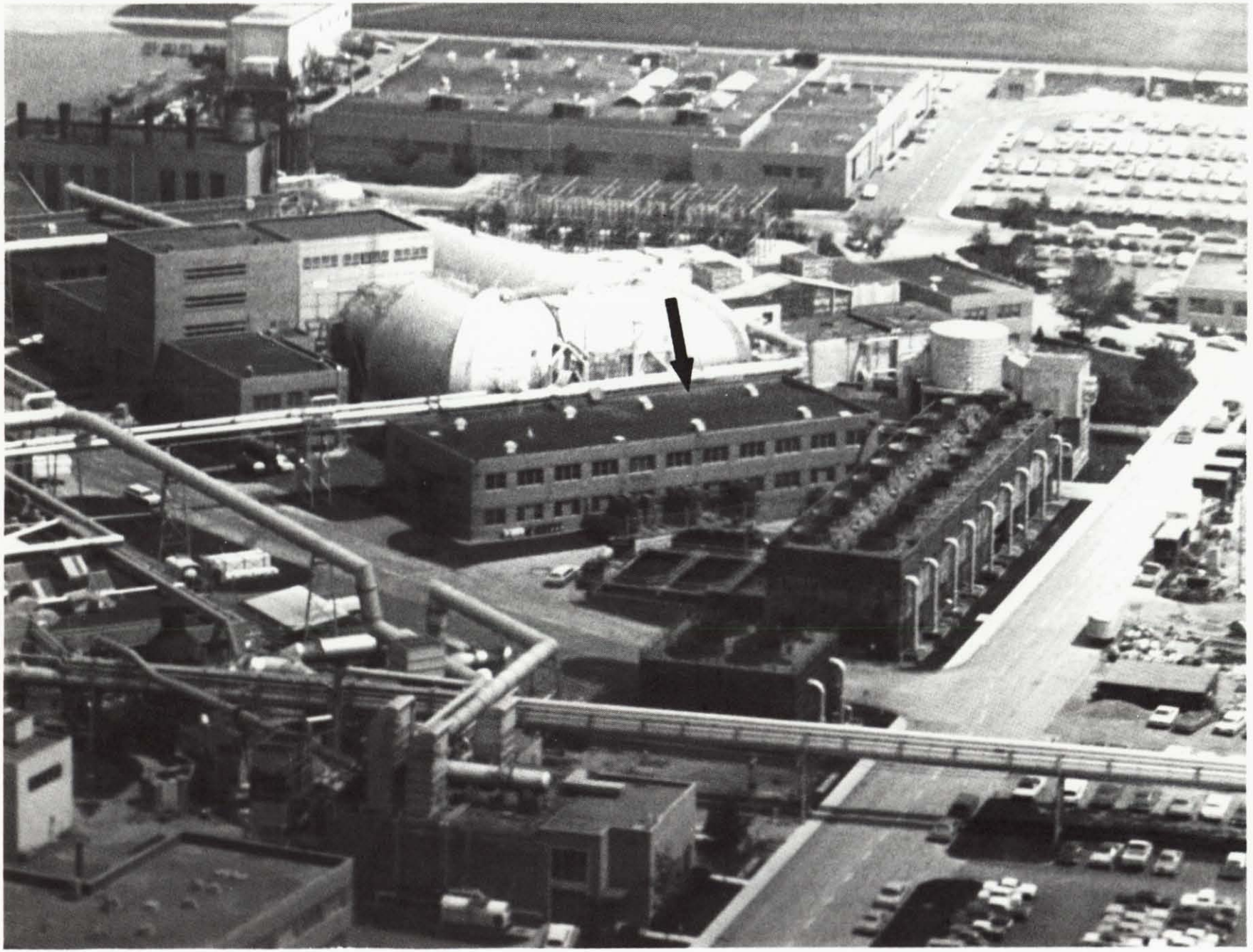
DESCRIPTION: The facility consists of two large test chambers, shop and control room areas, and general office space. It is used for altitude testing of large components and models, such as the Atlas/Centaur vehicle stage separation tests.

The No. 1 chamber is 30 ft. in diameter by 100 ft. long. It has a 22½ ft. diameter dome on top of the chamber which increases the height of the test section under the dome to 45 ft. The top of the dome is removable for installation of test items and equipment. The chamber has a LN_2 cold baffle 20 ft. in diameter by 40 ft. high. The No. 2 chamber is 50 ft. in diameter by 121 ft. long. The PSL altitude exhaust system (see Complex #64) is used to evacuate both chambers to simulate altitudes up to 100,000 ft.

The office space is occupied by the Security Office and Travel Reservation Section, Management Services Division.

NAME: VISITOR INFORMATION CENTER	CAPITAL COST	SURVEY DATE	BLDG.
	1,412,950	APRIL 1975	8

DESCRIPTION: The Visitor Information Center contains a large floor display area with an adjacent 170 seat auditorium. It is used for public education and information displays on NASA activities.



NAME: REFRIGERATION BUILDING	CAPITAL COST	SURVEY DATE	BLDG.
	2,129,718	APRIL 1975	9

DESCRIPTION: The Refrigeration Building provides both low temperature research air and chill water (air-conditioning) services.

The building houses thirteen 1500 hp freon compressors having a total refrigeration capacity of 7,350 tons and are used to support research in IRT (11). Three additional freon compressors supply chilled water for air-conditioning to the Administration Building (3), ERB Complex (5), Chemistry Laboratory (6), and Visitor Information Center (8). A natural gas compressor with a 300,000 SCFM capacity at 300 psi is used for research in ECRL (98). Five 200 hp, 5000 GPM horizontal pumps, six 100 hp, 2000 GPM and four 200 hp, 6500 GPM vertiline pumps distribute cooling tower water to equipment in ERB (5), VIC (8), Refrigeration Building (9), IRT (11), IRL (77), and ECRL (98).