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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

# NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

FOR NPS USE ONLY

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HISTORIC				
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Saturn V Space	Vehicle			
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STREET & NUMBER				
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BUILDING(S)	PRIVATE	XUNOCCUPIED	COMMERCIAL	PARK
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SITE	PUBLIC ACQUISITION	ACCESSIBLE	ENTERTAINMENT	RELIGIOUS
_OBJECT _	_IN PROCESS	XYES: RESTRICTED	<b>X</b> GOVERNMENT	_SCIENTIFIC
_	BEING CONSIDERED	YES: UNRESTRICTED	INDUSTRIAL	_TRANSPORTAT
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## 7 DESCRIPTION

#### CONDITION

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\_XUNALTERED \_\_ALTERED

\_ORIGINAL SITE

XGOOD. \_\_FAIR

\_\_UNEXPOSED

\_\_RUINS

X\_MOVED DATE\_\_\_

#### DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Saturn V Space Vehicle is located in the Rocket Park of the Alabama Space and Rocket Center and consists of three tank-type propellant stages and payload. The vehicle is exhibited horizontally, one stage on allow boy type trailer, others on cradles.

Primarily materials: aluminum alloys, stainless steel and titanium.

Length: 365 feet.

Weight: 6,200,000 pounds.

First Stage: 33' diameter by 138'; five F-1 engines.

Assembled by Marshall Space Flight Center and Boeing Aircraft Corporation.

Second Stage: 33' diameter by 81'; five J-2 engines. Assembled by North American Rockwell.

Third Stage: 22' diameter by 59'; 1 J-2 engine. Assembled by McDonnell-Douglas.

Pay Load: (1) Apolo Command Module - cone-shaped, 10'7" high, 12'10" diameter. Habitable volume - 210 cubic feet. Weight - 13,000 pounds.

(2) Service Module: Cylinder-shaped, 22'7" high, 12'10" diameter. Weight - 55,000 pounds. Assembled by North American Rockwell.

Cost: \$15,010,000.00

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STATEMENT OF SIGNIFICANCE

On July 16, 1969 a Saturn V Space Vehicle rose from the launch pad carrying astronauts Armstrong, Aldrin, and Collins toward mankind's first expedition to the surface of the moon Since stages of the Saturn V are not recovered after use, a Saturn which has actually flown a mission will never be available to the public. The test stages located at the Alabama Space and Rocket Center are full operational units of the eventual flight stages and provide a realistic view of the vehicle which carried the first men to the moon and placed the first U.S. space station into orbit.

The design, development and manufacture of the Saturns was the responsibility of the NASA-Marshall Space Flight Center at Huntsville, Alabama, which at the time, was under the leadership of Dr. Werhner von Braun. Dr. von Braun headed a nation-wide team drawn from industry, government, and the educational community which provided the expertise to produce the Saturn.

The decision to develop the Saturn V was officially announced on January 10, 1962. It was the first large vehicle in the U.S. space program to be conceived and developed for a specific purpose - the lunar landing. NASA formally assigned the task of developing the Saturn V to the Marshall Space Flight Center on January 25, 1962. Launch responsibility was committed to the Kennedy Space Center in Florida.

Marshall Center designers decided that a three-stage vehicle would best serve the immediate needs for a lunar landing mission and would serve well as a general purpose space exploration vehicle. The Saturn V provided the U.S. with the capability to put into earth orbit some 280,000 pounds of payload or send 95,000 pounds to the moon. During a seven year period, a total of 13 Saturn V vehicles were launched, including two unmanned test flights; ten Apollo flights; and one flight which carried the Skylab space station to earth orbit. The Saturn V performed successfully in all missions.

In producing the Saturn V, the Marshall Center assembled test stages for use in dynamic testing and to check our facilities being prepared for the Saturn. Three of these main stages and the instrument unit, following the end of the development phase, were turned over to the Smithsonian Institute, which, in turn, made arrangements for the permanent displays near the Marshall Center and the Alabama Space and Rocket Center.

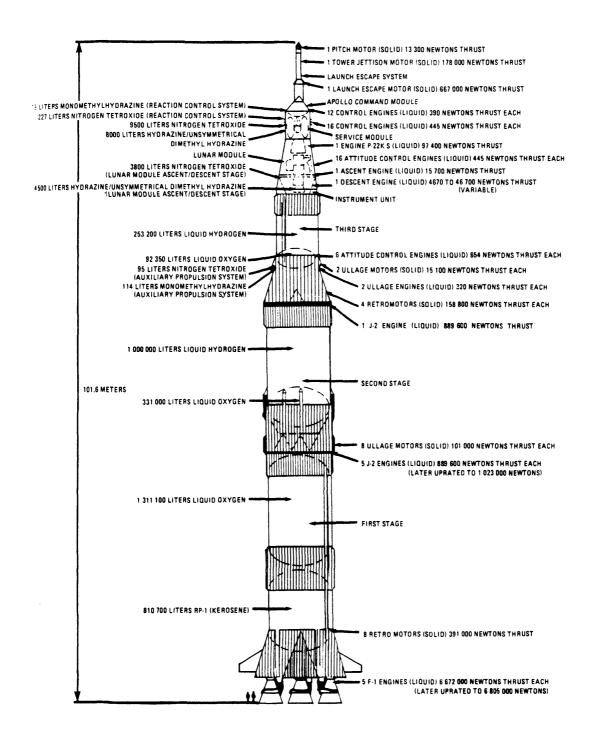
These stages are displayed end-to-end so as to resemble a complete vehicle. They have been in place since 1969 and until recently were the only full scale representation of a Saturn V available to the public. In 1976 a full scale Saturn was assembled at the Kennedy Space Center.

# <sup>1</sup> 9 MAJOR BIBLIOGRAPHICAL REFERENCES

National Aeronautics and Space Administration records and documents.

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### Schematic of Saturn V



Source: Bilstein, p. 405

