NEWS FROM ROCKETDYNE
A DIVISION OF NORTH AMERICAN ROCKWELL CORPORATION
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FOR PRESS INFORMATION: 213/884-2213 884-7514

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DATA SHEET
H-1 ROCKET ENGINE

THRUST: Four versions: 205,000 pounds, 200,000 pounds, 188,000 pounds, and 165,000 pounds.

PROPELLANTS: RP-1 (kerosene) fuel and Liquid Oxygen (oxidizer).

COMPONENTS:

- **Thrust Chamber:** Tubular wall, regeneratively cooled.
- **Propellant Supply:** Twin pumps driven through a gearbox by a single turbine.
- **Turbine Drive:** Gas generator burning main propellants.

DIMENSIONS: Eight feet-six inches in length, five feet-six inches in width.

APPLICATIONS: Saturn I and Saturn IB first stages in cluster of eight. In early Saturn IB versions, 200,000 pound-thrust engine produced total of 1.6 million pounds of thrust. In later version, 205,000 pound-thrust engines produce thrust of 1.64 million pounds.

GENERAL: Developed and is being produced by Rocketdyne under the technical direction of National Aeronautics and Space Administration, Marshall Space Flight Center, Huntsville, Ala.

HISTORY:

Development contract awarded Sept., 1958.
First full duration firing, Dec., 1958.
First engine delivered April, 1959.
First flyable engine delivered to NASA, Jan. 27, 1960.
First eight engine cluster test by NASA, Apr. 29, 1960.
Formal Preliminary Flight Rating Test of 188,000 pound-thrust engine completed Sept. 28, 1962.
Development of 200,000 pound-thrust version began Nov. 8, 1963. First engine delivered to Chrysler Corporation at NASA's Michoud Assembly Facilities, La., March, 1964.
First 205,000 pound-thrust version delivered Oct., 1965.
First cluster of 200,000 pound-thrust engines used to launch initial Saturn IB flight Feb. 26, 1966.

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