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MIGHTIEST U. S. ROCKET ENGINE TESTED

Progress toward manned flights to the moon and distant planets is seen in the successful performance of F-1, the mightiest rocket engine ever developed in the United States. In more than 25 recent test-stand firings, the new single-chamber liquid-propelled engine has met and even exceeded its designers' power goal of 1,500,000 pounds (680,000 kilograms) of thrust. After flight tests in 1963, the F-1 is expected to become the nation's basic booster engine, with the power and versatility to advance space flight during the next decade.

10-10 Water under high pressure flows through an engine dome in one of more than 100 different tests performed before the F-1 was fired at full thrust on one of the high test stands. A technique known as statistical test design was used to obtain maximum information from each test. All test procedures were designed to assure the safety and reliability of the rocket engine and to speed it to completion without waste effort and needless expense. (61-13330)

7 1/2 audio

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Science: Astronautics (Research)

El agua cae a alta presión por la cúpula del motor en una de las más de 100 pruebas diferentes llevadas a cabo antes de que el "F-1" sea disparado a todo impulso en una de sus plataformas de pruebas. Una técnica conocida como diseño estadístico de pruebas fue utilizada para obtener la máxima información de cada una de las pruebas. Todos los procedimientos de ensayos han sido proyectados para asegurar la seguridad y precisión del motor-cohete, y para acelerar su terminación sin esfuerzos inútiles y gastos innecesarios.

