



Space Shuttle Flight Support Motor No. 1 (Fsm-1) (Paperback)

By National Aeronautics and Space Adm Nasa

Independently Published, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. Space Shuttle Flight Support Motor No. 1 (FSM-1) was static test fired on 15 Aug. 1990 at the Thiokol Corporation Static Test Bay T-24. FSM-1 was a full-scale, full-duration static test fire of a redesigned solid rocket motor. FSM-1 was the first of seven flight support motors which will be static test fired. The Flight Support Motor program validates components, materials, and manufacturing processes. In addition, FSM-1 was the full-scale motor for qualification of Western Electrochemical Corporation ammonium perchlorate. This motor was subjected to all controls and documentation requirements CTP-0171, Revision A. Inspection and instrumentation data indicate that the FSM-1 static test firing was successful. The ambient temperature during the test was 87 F and the propellant mean bulk temperature was 82 F. Ballistics performance values were within the specified requirements. The overall performance of the FSM-1 components and test equipment was nominal. Hughes, Phil D. Unspecified Center AMMONIUM PERCHLORATES; FULL SCALE TESTS; SOLID PROPELLANT ROCKET ENGINES; SPACE SHUTTLES; SPACE TRANSPORTATION SYSTEM FLIGHTS; STATIC TESTS; TEST FIRING; AMBIENT TEMPERATURE; BALLISTICS; INSPECTION; MANUFACTURING; QUALIFICATIONS.



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