

**Lyndon B. Johnson Space Center**  
Houston, Texas  
77058

NOV 13 1990

Reply to Attn of:

**SD-90-186**

**TO: Distribution**

**FROM: SD/William E. Thornton, M.D.**

**SUBJECT: Exercise Testing Reports**

Enclosed are a series of contractor reports and a summary note of test and verification done during exercise hardware procurement and development under my direction in Life Sciences Medical Sciences Division during 1989-90. Such testing is essential for development of effective hardware although seldom done and sometimes criticized as a delay. It provides the basis for rational design and it is hoped that this information will aid in the future design(s) of such hardware. Further it is my belief that the major testing organization, which did not exist at the start of this work, can continue to be a unique resource. My thanks are extended to all members of that MacDonnell Douglas Space Systems Company laboratory and especially Jim McCaulley and Richard Smith. All the reports had to be completed in an impossibly short time and while they could be improved in a more realistic timeframe, they would not exist at all without extraordinary efforts by the test lab staff.



William E. Thornton, M.D.

Enclosure

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Whitmore Enterprises  
Box 369, Route 5  
San Antonio, TX 78221

SD/W.E.Thornton:cjp:11-8-90:32785

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DATE		9 Nov 90	11/9/90			