

Lyndon B. Johnson Space Center
Houston, Texas
77058

AUG 15 1990

Reply to Attn of:

SD/90-209

TO: Travis Brown
FROM: SD/William E. Thornton, M.D.
SUBJECT: Receipt of Service

The following services have been received from South Shore Harbor Fitness Center under a contract you administered.

1. A short term quality/reliability test of a treadmill (T.M.) with components to be used in advanced flight TMs. Some 100 plus hours operating time at various rates were quickly obtained with some 23 subjects in a well controlled fashion. Comprehensive log books were kept and information provided.

As a result of this work it was obvious that the TM had excellent short term reliability but functional design changes were needed. A modified T.M. with the needed changes is now in place for additional testing.

A series of leg volumes on 4 subjects under 3 conditions over 4 hour periods was done after extensive characterization of the subjects including stress testing for maximum performance and underwater weighing for composition. The data has been transferred to me and allows some new approaches to the problem of fluid shift.

All of the procedures and data collection were done in a most professional and cost effective expedient, fashion.

Apparently they have not received the supplementary J.A. to allow completion of the T.M. and last volume study.



William E. Thornton, M.D.

cc.
SD/C. Sawin

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