

National Aeronautics and
Space Administration

Lyndon B. Johnson Space Center
Houston, Texas
77058



SEP 07 1990

Reply to Attn of: NB5/90-M185

TO: NB/Chief, Reliability and Maintainability Division
FROM: NB5/Chief, Payload Reliability Engineering Branch
SUBJECT: Treadmill Malfunctions Meeting, August 28, 1990

Payload Reliability participated in the subject meeting at the Boeing Flight Equipment Processing Contract (FEPC) facility (attendance sheet enclosed). According to Dr. W. E. Thornton, Medical Sciences Division, a number of problems with the treadmill have been experienced by the astronauts which have not been reported or tracked. Some of the problems discussed and agreements toward their resolution are as follows:

a. Problems.

- (1) One treadmill operates at less than 2 miles per hour.
- (2) A broken tachometer has never been used.
- (3) The harnesses are too short and padding may be inadequate.
- (4) The flight bungees and the inflammable protective covering are jamming the pulleys.

b. Agreements.

- (1) FEPC personnel will establish standard procedures for inspection, servicing, and calibration. The procedures will be reviewed by Dr. Thornton to verify that performance requirements are met.
- (2) FEPC personnel will repair the training tachometers.
- (3) A provision will be made for a set of flight bungees with an attached gauge for measuring the exerted force.
- (4) Dr. Thornton will fit check the shortest treadmill harness.
- (5) A meeting will be scheduled by Dr. Thornton with training personnel to discuss the correct procedures for training crewmembers to use the treadmill tachometer.

Updated copies of the drawings were requested to recertify the treadmill.

ORIGINAL SIGNED BY:
ROBERT H. STEELE

Robert H. Steele

Enclosure

CC:
NB5/W. P. Daniel (FAC/S1106)
SD/W. E. Thornton

NB5/RLAllison:ce:8/31/90:34972
Retyped:RLA:ce:9/6/90:34972

Attendance Sheet		8/28/90 2 ⁰⁰	
Name	Org	Phone	Mail Code
Warren England	Boeing	1204	HP60
W. Thornton	NASA	32725	C.B
ED VINCENT	BOEING	7529	HF-50
L. Fuentes	BOEING	2053	HF-50
Shelly Grick-Ardla	Boeing	5975	HF-60
H.A. TABIBIAN	NASA	133649	SP44
J.B. THOMAS	11	335030	SP44
Clarence L. Ross	NASA/GAD	240208	ND25
Ralph V. Anderson	NASA VP4	4831272	VP4
Raymond Ed	Fed/NBS	3352514	S1106
S.C. GILBERT	NBS/FORD	37167	S1106
R.E. BAGGETT	BOEING	X-2061	HF-50
Ken Trujillo	RSOC	32566	DF42
P.D. MURRAY	BOEING	1-7364	HF-60