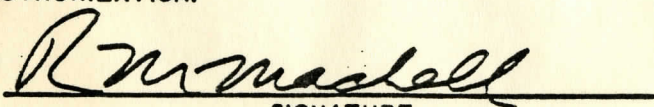


Thornton

Bill, FYI

Tony

PCIN 15440 G0746	SPACE SHUTTLE PROGRAM CREW RELATED GFE CCB DIRECTIVE	PAGE 1 OF 1
		CCB DATE April 20, 1982
CHANGE TITLE: Treadmill Exerciser		
CHANGE PROPOSAL(S) NO. AND SOURCE N/A	DOCUMENTS AFFECTED (NO., TITLE, PARA) Flight Manifest and CCCD	
INITIATED BY: LB/R. A. McComb	SUBMITTED BY: LB/R. A. McComb	
CREW RELATED GFE CHANGE DIRECTION This CCBD authorizes the following changes to the treadmill exerciser for STS-4. <ol style="list-style-type: none">1. Add rough surface or equivalent to running surface2. Relocate force cord tie-down to treadmill exerciser3. Decrease spring rate and provide constant force to bungee cords4. Add speedometer and odometer (commercial type)5. Modify speed control device6. Add heart rate monitor device (commercial type)7. Modify fittings - hold down devices (Brownline) Cost: 10K (est.) FY82 (986 FUNDS) In addition, this CCBD authorizes a study to survey industry for smaller, simple stowage, and less expensive exercising device to meet the basic intent for exercising in zero "g". Cost: 10K (FY82) <u>Actions:</u> EC/J. H. Barnett - To implement this change into your activity. WC2/D. Cordiner - To update the flight manifest, accordingly. EW2/R. Malone - To update the CCCD, accordingly.		
AUTHORIZATION:  SIGNATURE CHAIRMAN, CREW RELATED GFE CCB		CLOSE-OUT DOCUMENTATION 4/22/82 DATE

PROPOSED CHANGES TO TREADMILL
EXERCISER (TE) FOR STS-4 AND SUBS

CHAIRMAN: LA3/R. M. MACHELL

APRIL 20, 1982

DISPOSITION		
APP/8	D-APP	STUDY
		1. ADD ROUGH SURFACE <i>or equivalent</i>
		2. RELOCATE FORCE CORD TIE-DOWN TO TE
		3. BUNGIE CORD OUT-RIGGERS (ROLLERS)
		4. ADD SPEEDOMETER & ODOMETER
		5. MODIFY SPEED CONTROL DEVICE
		6. NOISE SUPPRESSION
		7. ADD CLIMOMETER (HEART RATE)
		8. INDICATION FOR WEIGHT (?)
		9. MODIFY INSTALLATION DISCONNECTS (BROWNLINER)