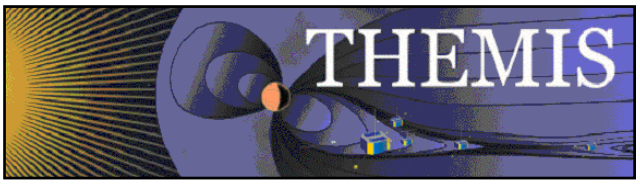

ENGINEERING CHANGE FORM

ENGINEERING REQUEST/NOTICE	DRAWING/DOCUMENT TITLE	DATE
Request X Notice Number 008	Increased current required for SPB SMA Actuators	4/30/2004

SERIAL NUMBER (If Applicable)	ITEM TYPE	DRAWING/DOCUMENT NUMBER	PROJECT
	Hardware X Software	thm_pcb_sch_001_PCB ETU thm_sys_101h_IDPU-ESA ICD	THEMIS

REASON FOR REQUEST

Total resistance in SPB actuator circuit was determined to be twice what was originally estimated. Total resistance is 5.5 not 2.5 ohms:
1. 22" @ 0.5ohms (or 11 ohms) for 1 SMA wire
2. 11ohms/2 (or 5.5 ohms) for parallel combination
3. 2A is required to actuate mechanism in air

REQUESTER

Bill Donakowski

CHANGE DESCRIPTION (Request/Response)	Disposition	Date Effective
Run SMA actuators in series (Doors 1,2 and Doors 3,4) off of 28V Actuator service instead of separately off of 5V SMA LVPS service.		
Change PCB ETU layout to accommodate change	1	5/4/04
Change Probe BAU current limit set point on 28V Actuator Service in IDPU-to-Probe ICD	1	5/21/04
Add 1.5 ohm resistor in SPB mechanical assemblies	1	6/1/04
Change PCB Flight layout to spare Door FETs	1	8/11/04

DISPOSITION/REMARKS

COGNIZANT ENGINEER

Class 1 ☐ Class 2 ☐

APPROVALS (Initials/Date)

Lead Engineer _____
Lead Engineer _____
QA Manager _____
Project Manager _____
Systems Engineer _____

CLASS CODES

1 Major Cost/Schedule
2 Minor Cost/Schedule

DISPOSITION CODES

1) Change in design spec, drawing, or schematic
2) Replace
3) Rework
4) Use As Is
5) See Note/Attachment

NEXT HIGHER ASSEMBLY

IDPU, SPB