



Reliability Failure Mode, Effects
and Criticality Analysis

ATM501 | B-2

Addendum 2 PSE

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DATE 8/6/71

This addendum updates the System FMECA for the PSE Array A-2D, and E to the date of this addendum.

The changes noted in Table I of this addendum are mechanical in nature and in no way effect the system FMECA for the PSE included in ATM 501B. The component level FMEA is given in a Teledyne document dated 6/6/68 Revision "A". There is no changes to the single point failure summary.

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**Aerospace
Systems Division**

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TABLE I

Description	Revision Utilized	Present Flight Configuration	Effect on Reliability
<u>Central Station Electronics</u>			
Power Converter "B"	234526C P/L 234525F	234526D P/L 234525G	No Change
Power Converter	234631C P/L 234630D	234631C P/L 234630E	No Change
Level Switch & Trigger Generator X, Y, and Z	234621-1A 234621-2A P/L 234620-1B P/L 234620-2B	234621-1A 234621-2A P/L 234620-1C P/L 234620-2B	No Change
Long Period Electronics X, Y, and Z Axis	234616A P/L 234615-1C P/L 234615-2C	234616B P/L 234615-1D P/L 234615-2D	No Change
Short Period Electronics	234521 N/C P/L 234520D	234521 N/C P/L 234520E	No Change
Calibration Attenuator	234606 N/C P/L 234605 N/C	234606 N/C P/L 234605A	No Change
Digital Electronics	234451C P/L 234450A P/L 234465C P/L 234480C	234451C P/L 234450A P/L 234465C P/L 234480C	No Change
Analog to Digital Converter	T-13010C	T-13010C	No Change

TABLE I (Continued)

Description	Revision Utilized	Present Flight Configuration	Effect on Reliability
<u>Sensor Electronics</u>			
X Axis Electronics	234556C P/L 234555E	234556C P/L 234555H	No Change
Y Axis Electronics	234561D P/L 234560G	234561D P/L 234560H	No Change
Z Axis Electronics	234541C P/L 234540E	234541C P/L 234540G	No Change
Sensor Electronics "W" Board	234571C P/L 234570D	234571D P/L 234570E	No Change
Long Period Preamplifier	234376A P/L 234375H	234376A P/L 234375H	No Change
Long Period Calibration Z Axis	234385G P/L 234385-1F	234385G P/L 234385-1F	No Change
Long Period Calibration X and Y Axes	234385G P/L 234385-2F	234385G P/L 234385-2F	No Change
Short Period Calibration	234380D P/L 234380C	234380D P/L 234380C	No Change
<u>Electro-Mechanical</u>			
Upper Platform Assembly	233249F P/L 233249G	233249F P/L 233249G	No Change

TABLE I (Continued)

Description	Revision Utilized	Present Flight Configuration	Effect on Reliability
<u>Electro-Mechanical (Continued)</u>			
Gimballed Platform	233225N	2341602A	No Change
Base Assembly			
Array E	233275P	2341603F-	Addition of Heaters will not effect reliability prediction or FMECA
Array A-2		-502	
Array D		-503	
Sensor Assembly	233425L		Mechanical changes to short period sensor. No effect on reliability prediction or FMECA
Array E	(SN03)	2341604F-	
Array A-2	(SN01)	-502	
Array D	(SN08)	-503	
Thermal Control	233411J	2338016P	Changes to add more heater power. No effect on reliability prediction or FMECA
Array E		No Dash #	
Array D		No Dash #	
Array A-2		-501	
Leveling Stool Assembly	233400C	2344723	No Change
Array A-2	(SN07)	No Dash #	
Array D	(SN09)	-501	
Array E		No Dash # or -501	