MAINTAINABILITY:

## EXECUTIVE RISK ASSESSMENT SUMMARY

HAZARD REPORT NUMBER: LW-PS-RAES-2C	DATE: 7/96
REV. LETTER:	REV, DATE:
PART NUMBER: SED39127336	LRU NUMBER: SED39129185
TITLE: Unable to properly configure sear.	1. SEVERITY: Catastrophic
	2. LIKELIHOOD OF OCCURRENCE: Improbable
	3. CLASSIFICATION: Controlled
CAUSE:	REDUNDANCY SCREENS:
C. Seat-back tilt cannot be locked into landing position - lower track latch assy, actuator mechanism jams in the disengaged position.	A - Pass
	B - Pass
	C - Pass
FMEA: LWS-PS-RAES-2C Criticality: 1R/2	v • •
Name/Quantity: Seat-back tilt actuator mechanism/1	
Function: Allows the seat-back to be repositioned in the	Cause: Contamination, excessive wear,
launch or landing position	piece-part defect
Failure Mode: lower track latch assy, actuator mechanism	Failure detection:
jams while in the disongaged position.	Crew notices the seat-back fail to latch.
Corrective Action: For Launch/RTLS pin may be manually	pushed into place with control cable handle. For On-Orbit
and Landing prep pin may be pushed into place with contro	cable handle, the "T"-bar on rear of seat.
EFFECT:	REMAINING PATHS:
Time to Effect: Seconds	None
Time to Correct: Seconds	
Failure Effect: Seating inadequate to provide support/ restri	sign for naminal flight loads or crack loads. Possible craw
injury/loss of crew due to crewmember being rossed during	turbulence, landing or following a failure which results in a
crash landing.	to but heet, mixing of forewing a failure which results in a
CONTROL/RETENTION RATIONALE:	·-
DESIGN: 1. Designed for minimum access for contaminati	ion.
2. Linkages are decoupled to allow appropriate of one lotely	on. ting pin if the other is jammed (LWS-PS has positive margins
of safety for one lauch out on nominal landing).	and har at the other is lamined (T.M.2.4.2 use bositive margine
FAILURE HISTORY:	
	d into place with control cable handle, the "T"-bar on rear of
cost	o muo piace with control capie nantile, the 1 -bar on fear of

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## VERIFICATION:

TEST: 3. Functional test performed before and after each certification test and acceptance testing with QA participation. 3a. A latch/unlatch test performed (150 iterations), No failures encountered.

## INSPECTION:

During assembly all parts are checked to be clean.

3b. PDA 4.2.6, PIA 4.2.3 - With the sear-back in the aft position unlock the scar-back adjustment lever located on the right side of the seat pan, slowly move seat back forward and release the control cable lever. The seat back shall lock in place in the forward launch position. Repeat for aft position. Repeat previous steps using "T"-bar. With seat back in forward position, pull "T"-bar move seat back forward into folded position. Release stowage pins and return to forward position. During all phases "T"-bar should be easily released and the seat back shall be free of jams, bindings, or inadvertent stops and move smoothly.

3c. OMRS V66AAO.022-C, D - Verify pilot/cmdr two position seat back and head rest adjustment, full range and locking capability.

3d. Life Certification Test (800 full range of motion iterations) completed on seat-back (TPS DW9520143O) and passed.

4. Crew trained (Habitability, Equipment and Procedures - HAB EQ PROC) on use of control cable and "T"-bar.