

EXECUTIVE RISK ASSESSMENT SUMMARY

HAZARD REPORT NUMBER: LWS-MS-ERAS-2A	DATE: 12/95
REV. LETTER:	REV. DATE:
PART NUMBER: SED39127320	LRU NUMBER: SED39126815
TITLE: Unable to properly configure seat.	1. SEVERITY: Catastrophic. 2. LIKELIHOOD OF OCCURRENCE: Improbable 3. CLASSIFICATION: Controlled
CAUSE: A. Seat leg QD fails to lock into launch/landing configuration or release from stowage position - button, spring and/or collar becomes jammed in the engaged/disengaged position.	REDUNDANCY SCREENS: A - Pass B - Pass C - Pass
FMEA: LWS-MS-ERAS-2A Criticality: IR/2 Name/Quantity: Seat Leg QD/4 Function: Holds the seat to orbiter floor panels or in stowed configuration. Failure Mode: Button, spring and/or collar becomes jammed in the engaged/disengaged position	Cause: Contamination, excessive wear, piece-part defect Failure detection: Crew cannot lock seat leg to the floor or release leg from stowed configuration.
Corrective Action: Crew could possibly use contingency IFM tools to free jammed button or collar.	
EFFECT: Time to Effect: Seconds Time to Correct: Minutes Failure Effect: Seating inadequate to provide support/restrain for nominal flight loads or crash loads. Possible crew injury/loss of crew due to crewmember being tossed during turbulence, landing or following a failure which results in a crash landing.	REMAINING PATHS: None
CONTROL/RETENTION RATIONALE: 1. Designed for minimum access for contamination. 2. Functional test performed before and after each certification test, acceptance testing with QA participation.	
VERIFICATION: 1. During assembly all parts are checked to be generally clean. 2a. A latch/unlatch test performed (150 iterations) during development testing. No failures encountered. 2b. PDA 4.2.2.2, PIA 4.2.2.2 - Attach seat assembly to the floor attach plate. Verify that floor fittings shall be able to be easily installed and removed. 2c. OMRS V66AAO.052-B, 053-B, 054-B, 055-B, 056-B - On each seat QD, verify spring-loaded plunger fully extends and locking collar cannot be moved upward. 2d. PDA 4.2.1.1, PIA 4.2.1.1 - The floor fittings on the rear legs shall latch and unlatch to the fittings provided on the seat pan.	