

# FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: RMS IM DBC KIT  
ASSY P/N: STD310304-304

SYSTEM: REMOTE MANIPULATOR SYSTEM  
SUBSYSTEM: RMS IN-FLIGHT MAINTENANCE DBC KIT

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NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION	CORRECTIVE ACTION TIME AVAILABLE/ TIME REQUIRED	CRIT. H/F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
EE COMMAND SIGNAL CIRCUIT (continued)		<p>7060 Mode: Resistor R2 fails open</p> <p>Cause:  <ul style="list-style-type: none"> <li>• structural failure</li> <li>• mechanical stress</li> <li>• vibration</li> <li>• electrical stress</li> </ul> </p>	Orbit	<p>Loss of EE command voltage</p> <p><u>Worst Case</u> Subsequent failures may result in inability to release payload</p> <p>Redundant Paths <u>Remaining</u> Backup mode. RMS Jettison.</p>		Subsequent failures may result in inability to release payload	<p>Operator detects that EE does not respond to commands EE TB's on RMS D &amp; C panel do not change</p>	<p>Release payload using backup release or jettison arm/payload combination</p> <p>Immediate/minutes</p>	3/IR	<p><u>Redundancy Scenarios:</u>                      A - Pass                      B - Pass                      C - Pass</p>