

FAILURE MODES AND EFFECTS ANALYSIS

ASSY NOMENCLATURE: RMS IFM D&C KIT
 ASSY P/N: 3FD33103J04-204

SYSTEM: REMOTE MANIPULATOR SYSTEM
 SUBSYSTEM: RMS IN-FLIGHT MAINTENANCE D&C KIT

REV. B PAGE 4 OF 20

NAME AND DRAWING	FUNCTION	FAILURE MODE AND CAUSE	MISSION PHASE	FAILURE EFFECT ON			FAILURE DETECTION FLIGHT GROUND	CORRECTIVE ACTION TIME AVAILABLE/ TIME REQUIRED	CRIT. H/F	HAZARDS/REMARKS
				END ITEM	MISSION	CREW/VEHICLE				
DIRECT DRIVE SWITCH, (S3) (continued)		<p>SOSO Mode: Short to case</p> <p>Cause: • structural failure • contamination • mechanical shock • vibration</p>	Orbit	<p>Fuse opens due to excessive current resulting in loss of 28V dc to IFM kit. Loss of IFM kit direct drive, EE functions and safing inhibit</p> <p><u>Worst Case</u> Subsequent failures may result in inability to release payload or cradle arm</p> <p>Redundant Paths <u>Remaining</u> Backup mode RMS Jettison.</p>		Subsequent failures may result in inability to release payload or cradle arm	Operator detects that arm and EE do not respond to commands	Select backup mode or jettison arm or arm/payload combination minutes/minutes	3/1R	<p><u>Redundancy Strategy:</u> A - Pass B - Pass C - Pass</p>

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ATTACHMENT -
PAGE 24 OF 93