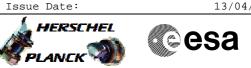
Configuration of SIR and CIR relay File: H_CRP_DHS_3013.xls Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to manage the SIR (Satellite In Reconfiguration) and CIR (CDMU In Reconfiguration) relays.

Summary of Constraints

*** If these relay are set by Ground there will be an ACMS reconfiguration *** In fact these relays are set by the CDMU RM (after the detection of a CDMS level 4 or 3 alarm) and are checked by the CDMU ASW only during the initialisation phase (when both RM logs cannot be

correctly retrieved and analysed to identify the reason for last start-up) and then reset after the execution of several operations.

Their status is reported externally to ACC through the SIR and the CIR signals and routed towards the CDMU I/O boards $\,$

Upon reception of SIR signal, the ACC ASW enters the ACMS into Sun Acquisition Mode (SAM) or remains in Survival Mode (SM) if already in SM.

Upon reception of CIR signal, the ACMS ASW: - put the spacecraft in a programmed Earth pointing attitude store on-board, if before the failure the S/C is either in Nominal Mode (NM) or in Earth pointing attitude; - no actions are performed if ACMS is in SAM or in SM.

Spacecraft Configuration

Start of Procedure

Any

End of Procedure

ACC in SAM or SM (SIR) Earth Pointing if ACC not in SAM or SM (CIR) CDMU shall react to AIR from ACC as per MOT / EAT

Reference File(s)

Input Command Sequences

Output Command Sequences

HRD3013C HRD3013D HRD3013F HRD3013G

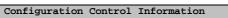
Referenced Displays

ANDS GRDS SLDS

Status : Version 1 - Unchanged Last Checkin: 02/12/08

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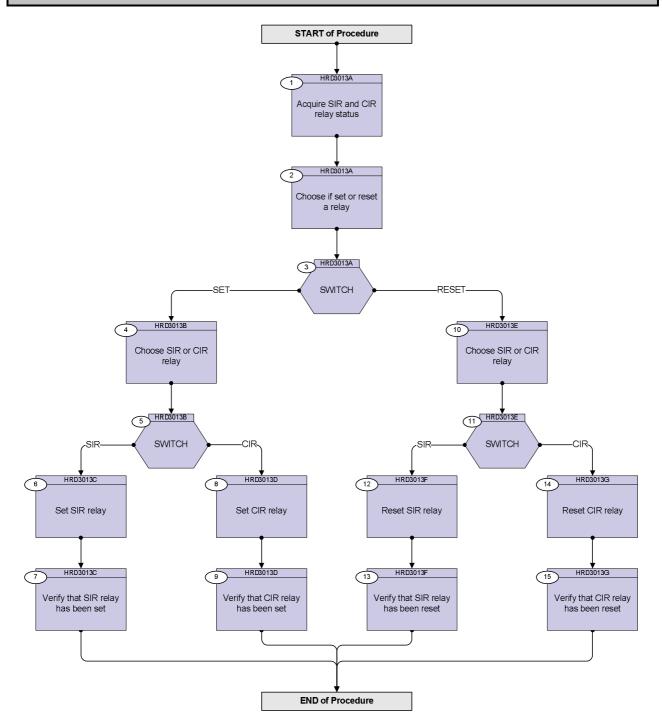
DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
02/12/08	2	1	Created	S. Manganelli	

Doc No. : PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Beginning of Procedure		
		TC Seq. Name :HRD3013A (Dummy sequence)		
		TimeTag Type: Sub Schedule ID:		
				Next Step:
1		Acquire SIR and CIR relay status		2
		Verify Telemetry		
		SIR_N DEK28160		AND=ZAD01999
		Track for the lame have		
		Verify Telemetry CIR_N DEK18160		AND=ZAD01999
2		Choose if set or reset a relay		Next Step: 3
3		SWITCH		Next Step: SET 4 RESET 10
		TC Seq. Name :HRD3013B (Dummy sequence) TimeTag Type: Sub Schedule ID:		
4		Choose SIR or CIR relay		Next Step: 5
5		SWITCH		Next Step: SIR 6 CIR 8
	·		·	·
		TC Seq. Name :HRD3013C (Set SIR relay) TimeTag Type: Sub Schedule ID:		
6		Set SIR relay		Next Step: 7

Configuration of SIR and CIR relay File: H_CRP_DHS_3013.xls Author: S. Manganelli



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand Set_SIR_Relay	DCA19170	
		TC Control Flags :		
		GBM IL DSE		
		Det. descr. : Set SIR Relay - High Priority Standard		
				Next Step:
7		Verify that SIR relay has been set		END
		Verify Telemetry SIR_N DEK28160	= In progress	AND=ZAD01999
		TC Seq. Name :HRD3013D (Set CIR relay)		
		(be en leidy)		
		TimeTag Type:		
		Sub Schedule ID:		
				Next Step:
8		Set CIR relay		9
		Execute Telecommand	DCA20170	
		Set_CIR_Relay	DCA20170	
		TC Control Flags : GBM IL DSE		
		Y Subsch. ID : 10		
		Det. descr. : Set CIR Relay - High Priority Standard		
9		Verify that CIR relay has been set		Next Step: END
		Verify Telemetry		
		CIR_N DEK18160	= In progress	AND=ZAD01999
		TC Seq. Name :HRD3013E (Dummy sequence)		
		TO 224, Hame HIRDOLDE (Dammy Bedactice)		
		TimeTag Type:		
		Sub Schedule ID:		
				Next Step:
10		Choose SIR or CIR relay		11
11		SHITTCH		Next Step: SIR 12
		SWITCH		CIR 14
,				

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	
		TC Seq. Name :HRD3013F (Reset SIR relay)			
		TimeTag Type: Sub Schedule ID:			
12		Reset SIR relay		Next Step: 13	
		Execute Telecommand Reset_SIR_Relay	DCH11170		
		TC Control Flags : GBM IL DSE Y Subsch. ID : 10 Det december 10			
		Det. descr. : Reset SIR Relay - High Level			
13		Verify that SIR relay has been reset		Next Step: END	
		Verify Telemetry SIR_N DEK28160	= No	AND=ZAD01999	
		TimeTag Type: Sub Schedule ID:			
14		Reset CIR relay		Next Step: 15	
		Execute Telecommand Reset_CIR_Relay	DCH43170		
		TC Control Flags : GBM IL DSE Y			
		Subsch. ID : 10 Det. descr. : Reset CIR Relay - High Level			
15		Verify that CIR relay has been reset		Next Step: END	
		Verify Telemetry CIR_N DEK18160	= No	AND=ZAD01999	
End of Procedure					