

Trigger PCS FDIR Level 1 Recovery
 File: H_CRP_EPS_FDIR.xls
 Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to Trigger PCS FDIR Level 1 Recovery.

Summary of Constraints

TC(8,4,116,33)PCDU 1553 Bus Communication failure is accepted only if the FDIR Management function is active.

Since this TC(8,4,116,33) executes a recovery sequence, execution takes some time. Refer to H-P-SP-AI-0031 for details.

Spacecraft Configuration

Start of Procedure

CDMU in default configuration,
 Communication between CDMU and PCDU via Nom 1553 I/F,
 TMTC N marked not failed in UIU table,
 EAT entry related to PCDU_NOT_VIT_RT_INV (ID 157) enabled

End of Procedure

CDMU in default configuration;
 Communication between CDMU and PCDU via Red. 1553 I/F,
 TMTC N marked failed in UIU table,
 EAT entry related to PCDU_NOT_VIT_RT_INV (ID 57) disabled

Reference File(s)

Input Command Sequences

Output Command Sequences

HRWFDIR

Referenced Displays

ANDs GRDs SLDs

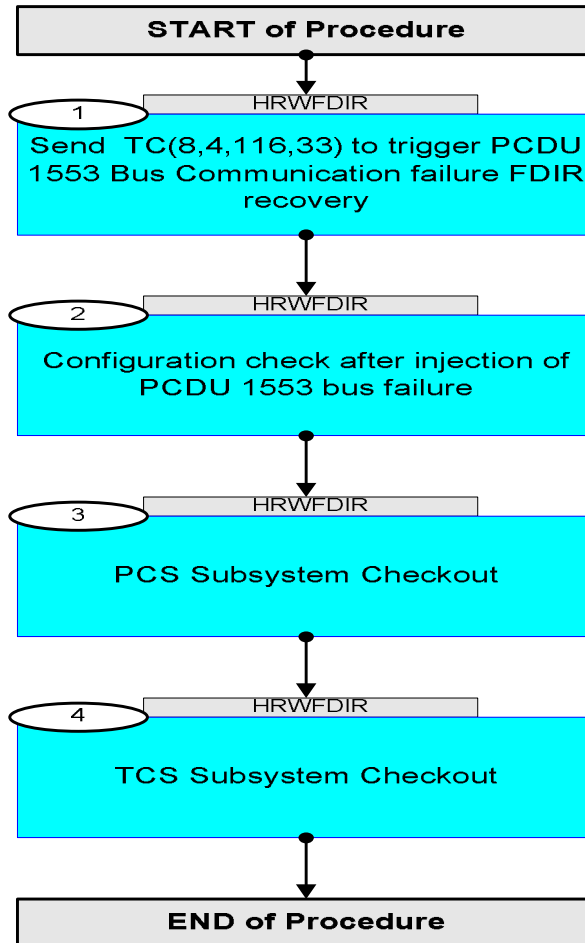
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
22/03/09	2.2	1	Created	E. Picallo	

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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 : HRWFDIR (Trigger PCS FDIR) Trigger PCS FDIR Level 1 Recovery TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>				
1		Send TC(8,4,116,33) to trigger PCDU 1553 Bus Communication failure FDIR recovery		Next Step: 2
		Execute Telecommand <p style="text-align: center;">FdirPcdBusCommFail</p> TC Control Flags : <p style="text-align: right;">GBM IL DSE --Y -- --</p> Subsch. ID : 10 Det. descr. : FDIR Recovery: PCDU 1553 bus comm. failure TC(8,4,116,33)	DCN17170	
		The major actions taken by the recovery procedure are: - Disable EAT entry (TM (5,x,157)) - Disable comm. with currently in use PCDU 1553 RT - Switch OFF currently in use PCDU 1553 I/F. - Changing the FDIR status from NOT FAILED to FAILED * - Turn ON Currently In Use PCDU 1553 I/F - Enable comm. with currently in use PCDU 1553 RT - Reinforce the HPS currently in use on commands - Switch off redundant HPS * way to define the NEW Currently In Use PCDU that is now Redundant and NOT FAILED.		
2		Configuration check after injection of PCDU 1553 bus failure		Next Step: 3
		Call to procedure H_CRP_EPS_IFR Configuration check after PCDU 1553 bus failure (Do not perform PCDU TMTC Roll back)		
		Execute Procedure: H_CRP_EPS_IFR Configuration check after PCDU 1553 bus failure		
3		PCS Subsystem Checkout		Next Step: 4
		Execute Procedure: H_FCP_EPS_CHECK PCS Subsystem Checkout		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
4		TCS Subsystem Checkout		Next Step: END
		Execute Procedure: H_FCP_TCS_CHECK TCS Subsystem Checkout		
End of Procedure				