

TTR switchover for NOTM procedure
 File: H_CRP_DHS_1009.xls
 Author: S. Manganelli



Procedure Summary

Objectives

To regain TM by switching over to the TTR-Encoder-OBT chain B.
 Note that this procedure is supposed to be performed in the blind
 (called by the NOTM system procedure).

Summary of Constraints

None

Spacecraft Configuration

Start of Procedure

It is supposed that the initial configuration is TTR A in use but
 for some reason the TM encoder has stopped working.

End of Procedure

TTR-Encoder-OBT chain B in use. 6 EAT entries disabled by FDIR
 (see procedure step 2).

Reference File(s)

Input Command Sequences

Output Command Sequences

HRD1009

Referenced Displays

ANDs	GRDs	SLDs
ZAZAA999		
ZAZAN999		
ZAD3A999		

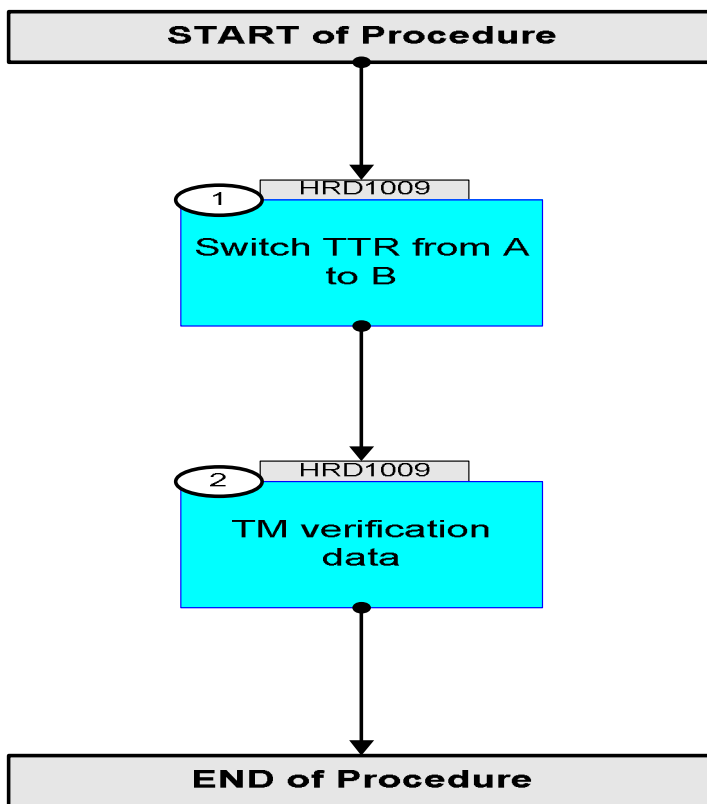
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
04/09/2011	3.1	1	Created	S. Manganelli	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch	AIT Comment
Beginning of Procedure					
HRD1009 TC Seq. Name :HRD1009 (TTR_AtoB_switchover) TimeTag Type: N Sub Schedule ID: <input type="checkbox"/>					
1		Switch TTR from A to B		Next Step: 2	
		This TC shall initiate the FDIR-driven switchover of the TTR-Encoder-OBT chain from A to B. The action is to be performed in the blind as part of the NOTM system procedure.			
		Execute Telecommand <div style="text-align: right;">FdirLossTtrA</div> TC Control Flags : <div style="text-align: right;">GBM IL DSE</div> <div style="text-align: right;">--Y -- -Y-</div> Subsch. ID : 10 Det. descr. : FDIR Recovery: Loss of TTR Board A TC(8,4,116,35)	DCN19170	TC	
2		TM verification data		Next Step: END	
		TM verification is given for completeness since it is not ensured that TM shall be recovered.			
		Verify Telemetry <div style="text-align: right;">Active_TTRBoard</div> <div style="text-align: right;">DEDMG160</div> <div style="text-align: right;">= B</div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right;">ACT_TM_OBT</div> <div style="text-align: right;">DEDMF160</div> <div style="text-align: right;">= 1 <dec></div>		AND=ZAZAA999	
		Verify Telemetry <div style="text-align: right;">Ttr1FailSts</div> <div style="text-align: right;">DEL09170</div> <div style="text-align: right;">= Failed</div>		AND=ZAZAN999	
		Verify Telemetry <div style="text-align: right;">Ttr2Use</div> <div style="text-align: right;">DEL16170</div> <div style="text-align: right;">= In_Use</div>		AND=ZAZAN999	
		Verify Telemetry <div style="text-align: right;">Ttr1Use</div> <div style="text-align: right;">DEL12170</div> <div style="text-align: right;">= Not_In_Use</div>		AND=ZAZAN999	
		Verify Telemetry <div style="text-align: right;">BSW_EvIDCnt46</div> <div style="text-align: right;">DEGG0160</div> <div style="text-align: right;">Incr by 1</div>		AND=ZAD3A999	
		WARNING: six entries of the EAT should have been autonomously disabled, i.e. APID = 16 EVENT ID = 56 / 57 / 64 / 65 / 86 / 87 NOTE: the TTR declared NOMINAL is still TTR A.			
End of Sequence					
End of Procedure					