Alignment of TTC configuration File: H_CRP_TTC_60RB.xls Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to change the reached TTC configuration after the recovery performed on-board by the ASW when no Ground contact has been established for a time greater than 60 hours.

Summary of Constraints

Since it is not possible to have in the Unit In Use table a cross configuration of XPND and TWTA from the point of view of "Nominal"/"Redundant" status, to keep active the Misssion Timeline it is necessary to re-align the TTC configuration.

XPND TX, XPND RX, TWT assembly, TWT amplifier, and EPC the nominal/redundant configuration status is common. Because they belong to a "superunit", which is the TTC chain, they switch between nominal to redundant as a group.

Note that for ranging purpose, receiver and transmitter used have to be on the same transponder.

Spacecraft Configuration

Start of Procedure

CDMU in default configuration.

End of Procedure

CDMU in default configuration.

Reference File(s)

Input Command Sequences

Output Command Sequences HRR60RB

Referenced Displays

ANDS GRDs

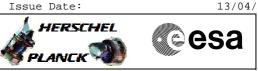
SLDs (None)

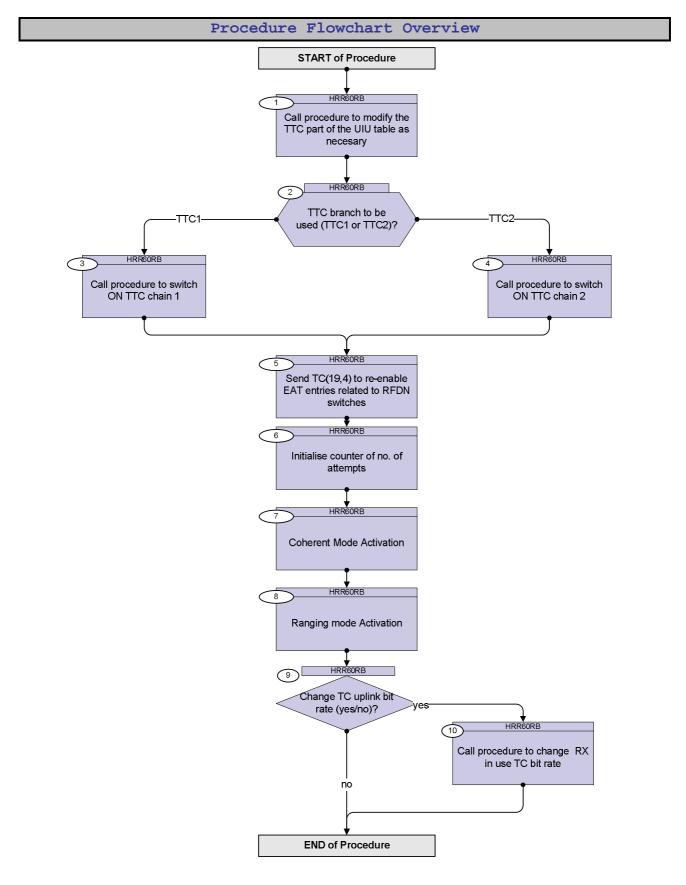
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
05/01/09		1	Created	E. Picallo	
08/01/09		2	CDMU ASW V3.8 and BSW V2.4 alignment	E. Picallo	
09/01/09	2	3	Inittialisation of Ground Loss Recovery Attempt Counter added	E. Picallo	
15/03/09	2.2		TTC chain set nominal / redundant as a group constrain addded Coherent mode and ranging mode activation addded Change TC bit rate added	E. Picallo	

Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0 Issue Date: 13/04/10

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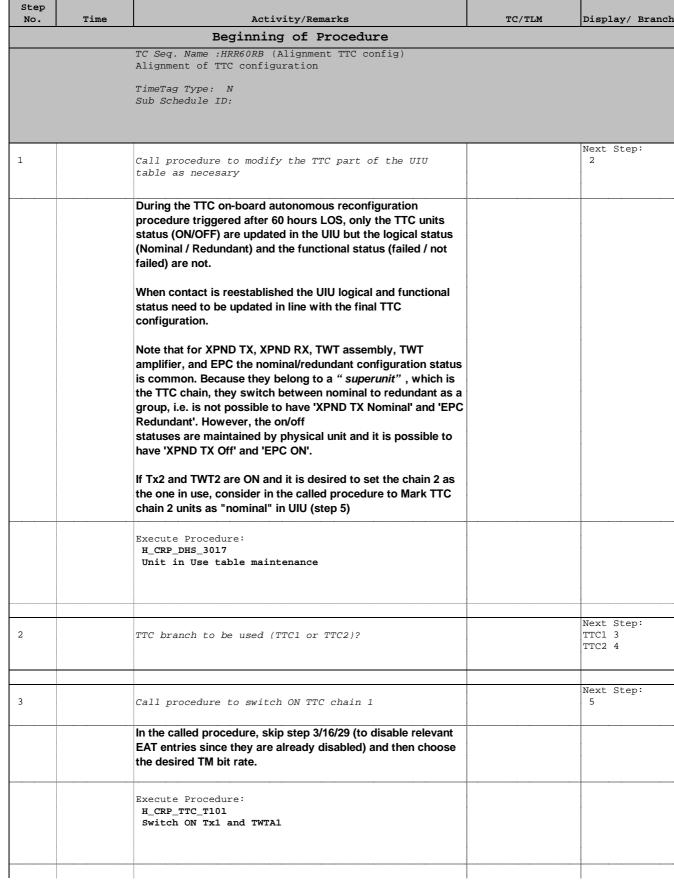
Doc No. :PT-HMOC-OPS-FOP-6001-OPS-OAH Fop Issue : 3.0 Issue Date: 13/04/10

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Alignment of TTC configuration File: H_CRP_TTC_60RB.xls Author: E. Picallo



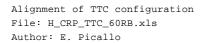
Alignment of TTC configuration File: H_CRP_TTC_60RB.xls Author: E. Picallo



Cesa

Step No.	Time	Activity/Remarks	5	TC/TLM	Display/ Branch
4		Call procedure to switch ON TTC cha	ain 2		Next Step: 5
		In the called procedure, skip step 3/16/29 EAT entries since they are already disab the desired TM bit rate.	•		
		Execute Procedure: H_CRP_TTC_T201 Switch ON TX2 and TWTA2			
5		Send TC(19,4) to re-enable EAT entr RFDN switches	ries related to		Next Step: 6
		When this request is received, the action associated with the corresponding even In the TC(19,4) it is necessary to set the N, number of events to be enabled, in th APID, repeated N times, identifier of the generating this event report, in this case (CDMU). Event ID, repeated N times, identifier of enabled, in this case equal to 0x9200 (SV 0x9201 (SW1 position failure), 0x9202 (S 0x9203 (SW2 position failure), 0x9204 (S 0x9205 (SW3 position failure), 0x9206 (S 0x9207 (SW4 position failure).	t shall be enabled. following parameters: is case equal to 8. Application Process e always equal to 16 the event to be N1 position failure), W2 position failure), W3 position failure),		
		Execute Telecommand Command Parameter(s) : N_Repetition APID_for_EAT_TC EventId APID_for_EAT_TC EventId APID_for_EAT_TC EventId APID_for_EAT_TC EventId APID_for_EAT_TC EventId APID_for_EAT_TC EventId	EnableActions DH041170 DH236170 DH146170 DH146170 DH146170 DH236170 DH146170 DH236170 DH146170 DH236170 DH146170 DH146170	DCT84170 8 <dec> CDMS (Def) 9200 <hex> CDMS (Def) 9201 <hex> CDMS (Def) 9202 <hex> CDMS (Def) 9203 <hex> CDMS (Def) 9203 <hex> CDMS (Def) 9204 <hex></hex></hex></hex></hex></hex></hex></dec>	

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APID_for_EAT_TC DH236170 EventId CDMS (Def) 9205 chex> CDMS (Def) 9205 chex> CDMS (Def) 9206 chex> CDMS (Def) 9206 chex> CDMS (Def) 9206 chex> CDMS (Def) 9206 chex> CDMS (Def) 9207 chex> TC Control Flags : Subsch. ID : 10 Det. descr. : TEMPLATE Enable Actions TC(19,4) CDMS (Def) 9207 chex> 5.1 Check the Event Action Table Verify in the report that EATentries related to RFDN SWs and TTC related entries are enabled. Execute Telecommand TC Control Flags : Subsch. ID : 10 Det. descr. : TEMPLATE Report The contents of the event/action table TC(19,6) DCT86170	Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
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Alignment of TTC configuration File: H_CRP_TTC_60RB.xls Author: E. Picallo



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Execute Telecommand ResGroundLossRecAttCnt	DCN1C170	
		TC Control Flags : Y	DENICI70	
		Subsch. ID : 10 Det. descr. : Reset Ground Loss Recovery Attempt Counter TC(8,4,116,27)		
6.3		Verify Ground Loss Recovery Attempt Counter		
		Verify Telemetry GndLossCtr DEA58170	= 0 <dec></dec>	(None)
7		Coherent Mode Activation		Next Step: 8
		Execute Procedure: H_FCP_TTC_TUCM Transponder in use Coherent Mode Activation/Deactivation		
				Next Step:
8		Ranging mode Activation		9
		Execute Procedure: H_FCP_TTC_TURM Transponder in use Ranging Activation/Deactivation		
9		Change TC uplink bit rate (yes/no)?		Next Step: yes 10 no END
1.0				Next Step:
10		Call procedure to change RX in use TC bit rate		END
		Execute Procedure: H_FCP_TTC_RUBR Select RX in use TC bit rate		
			·	