

S/C Mode transition from Launch to Sun Acquisition
 File: H_CRP_DHS_3058.xls
 Author: cmevi-hp



Procedure Summary

Objectives

This procedure describes the steps needed to force the S/C transition from Launch mode to Sun Acquisition mode if it is not performed automatically by the separation sequence.

Summary of Constraints

The S/C mode is changed through ASW TCs(8,4,110,1/2) thus the status of the ASW function "Mode Management" has to be "running" even if it cannot be verified.

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

HRD3058

Referenced Displays

ANDs GRDs SLDs

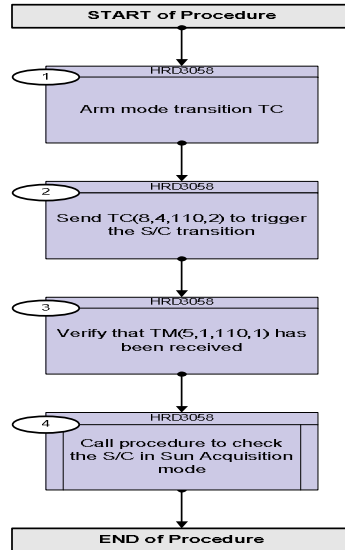
Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
12/11/08	2	1	Created	cmevi-hp	

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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 :HRD3058 (S/C from LM to SAM)				
TimeTag Type: N Sub Schedule ID: □				
1		Arm mode transition TC		Next Step: 2
		Execute Telecommand ModeManArmTrans_SunAcq TC Control Flags : Subsch. ID : 10 Det. descr. : Mode Manag. Arm Trans. to Sun Acquisition Mode TC(8,4,110,1)	DC02G170	
		GBM IL DSE --Y -- ---		
2		Send TC(8,4,110,2) to trigger the S/C transition		Next Step: 3
		Execute Telecommand ModeManFireTrans_SunAcq TC Control Flags : Subsch. ID : 10 Det. descr. : Mode Manag. Fire Trans. to Sun Acquisition Mode TC(8,4,110,2)	DC07G170	
		GBM IL DSE --Y -- ---		
3		Verify that TM(5,1,110,1) has been received		Next Step: 4
		WARNING: downlink of TM(5,1) is disable by default, thus the following packet can be acquired only if it previously enabled.		
		This event will be sent when the new S/C mode has been reached.		
		Verify Packet Reception CdmuAsw Event 5-1 New Mode Reached Packet Details:	D_EvRp_080	
		APID: 16 Type: 5 Subtype: 1 PI1: 28161 PI2: 0		
		Verify Packet Telemetry (Pkt = D_EvRp_080) TM5xEventID DEZSJ170 = NewModeReached		(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080) SID DE010170 = 0 <dec>		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Telemetry (Pkt = D_EvRp_080) ModeId DE142170	= SunAcquisition	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080) EventSeqCounter DE069170		(None)
4		<i>Call procedure to check the S/C in Sun Acquisition mode</i>		Next Step: END
		Execute procedure H_FCP_DHS_4002.		
End of Procedure				