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



Procedure Summary

Objectives

This procedure describes the steps needed to perform the S/C transition from Earth Acquisition mode to Sun Acquisition mode.

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".

Spacecraft Configuration
Start of Procedure
n/a
n/a
End of Procedure
n/a
Reference File(s)
Input Command Sequences
and the second descent
Output Command Sequences HRD3061
нкрэрет
Referenced Displays
ANDS GRDS SLDS
ZAZAI999

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
	2	1	Created	cmevi-hp	

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 3.0

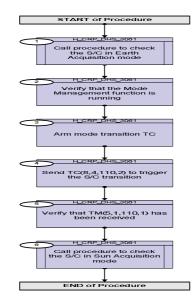
 Issue Date:
 13/04/10

 S/C Mode transition from Earth Acquisition to Sun Acquisition
 HERSCHEL

 File: H_CRP_DHS_3061.xls
 HERSCHEL

 Author: cmevi-hp
 PLANCK

Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch				
		Beginning of Procedure						
TC Seq. Name :HRD3061 (S/C from EAM to SAM)								
		TimeTag Type: N Sub Schedule ID:						
1		Call procedure to check the S/C in Earth Acquisition mode		Next Step: 2				
		Execute procedure H_FCP_DHS_4004.						
2		Verify that the Mode Management function is running		Next Step: 3				
		Verify Telemetry ModeSts DEH21170	= Running	AND=ZAZAI999				
3		Arm mode transition TC		Next Step: 4				
		Execute Telecommand ModeManArmTrans_SunAcq	DC02G170					
			DC02G170					
		TC Control Flags : GBM IL DSE Y Subsch. ID : 10 Det. descr. : Mode Manag. Arm Trans. to Sun Acquisition Mode TC(8,4,110,1)						
				Next Step:				
4		Send TC(8,4,110,2) to trigger the S/C transition		5				
		Execute Telecommand ModeManFireTrans_SunAcq TC Control Flags : GBM IL DSE Y	DC07G170					
		Subsch. ID : 10 Det. descr. : Mode Manag. Fire Trans. to Sun Acquisition Mode TC(8,4,110,2)						
				Next Step:				
5		Verify that TM(5,1,110,1) has been received		6				
		<u>WARNING:</u> 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.						

S/C Mode transition from Earth Acquisition to Sun Acquisition File: H_CRP_DHS_3061.xls Author: cmevi-hp



Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception CdmuAsw Event 5-1 New Mode Reached Packet Details: APID: Type: Subtype: PI1: PI2:	D_EvRp_080 16 5 1 28161 0	
		Verify Packet Telemetry (Pkt = D_EvRp_080)		
		TM5xEventID DEZSJ170	= NewModeReached	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080)		
		SID DE010170	= 0 <dec></dec>	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080)		
		ModeId DE142170	= SunAcquisition	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080)		
		EventSeqCounter DE069170		(None)
6		Call procedure to check the S/C in Sun Acquisition mode		Next Step: END
		Execute procedure H_FCP_DHS_4002.		
		End of Procedure		