

S/C self transition to Earth Acquisition  
 File: H\_CRP\_DHS\_3067.xls  
 Author: cmevi-hp



## Procedure Summary

### Objectives

This procedure describes the steps needed to perform the S/C self transition to Earth 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

#### End of Procedure

n/a

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HRD3067

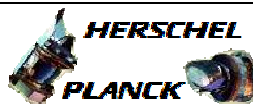
### Referenced Displays

ANDs      GRDs      SLDs  
 ZAZAI999

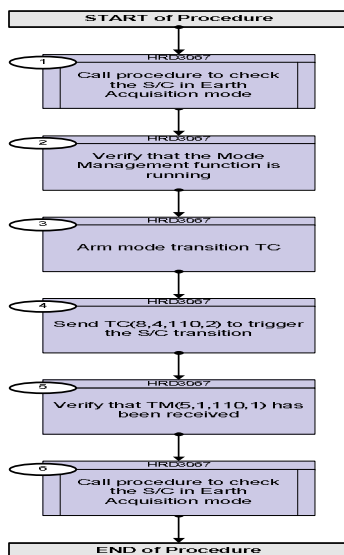
### Configuration Control Information

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
<b>Beginning of Procedure</b>				
TC Seq. Name :HRD3067 (S/C self tra to EAM)				
TimeTag Type: N Sub Schedule ID:  □				
1		Call procedure to check the S/C in Earth Acquisition mode		Next Step: 2
		<b>Execute procedure H_FCP_DHS_4004.</b>		
2		Verify that the Mode Management function is running		Next Step: 3
		Verify Telemetry  <b>ModeSts                      DEH21170</b>	<b>= Running</b>	AND=ZAZAI999
3		Arm mode transition TC		Next Step: 4
		Execute Telecommand  <b>ModeManArmTrans_EaAcq</b>	<b>DC04G170</b>	
		TC Control Flags :  <b>GBM IL DSE --Y -- ---</b>		
		Subsch. ID : 10 Det. descr. : Mode Manag. Arm Trans. to Earth Acquisition Mode TC(8,4,110,1)		
4		Send TC(8,4,110,2) to trigger the S/C transition		Next Step: 5
		Execute Telecommand  <b>ModeManFireTrans_EaAcq</b>	<b>DC09G170</b>	
		TC Control Flags :  <b>GBM IL DSE --Y -- ---</b>		
		Subsch. ID : 10 Det. descr. : Mode Manag. Fire Trans. to Earth Acquisition Mode TC(8,4,110,2)		
5		Verify that TM(5,1,110,1) has been received		Next Step: 6
		<b>WARNING: downlink of TM(5,1) is disable by default, thus the following packet can be acquired only if it previously enabled.</b>		
		<b>This event will be sent when the new S/C mode has been reached.</b>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception <b>CdmuAsw Event 5-1 New Mode Reached</b> Packet Details: <b>APID:</b> 16 <b>Type:</b> 5 <b>Subtype:</b> 1 <b>PI1:</b> 28161 <b>PI2:</b> 0	D_EvRp_080	
		Verify Packet Telemetry (Pkt = D_EvRp_080) <b>TM5xEventID</b> <b>DEZSJ170</b>	= NewModeReached	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080) <b>SID</b> <b>DE010170</b>	= 0 <dec>	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080) <b>ModeId</b> <b>DE142170</b>	= EarthAcquistn	(None)
		Verify Packet Telemetry (Pkt = D_EvRp_080) <b>EventSeqCounter</b> <b>DE069170</b>		(None)
6		Call procedure to check the S/C in Earth Acquisition mode		Next Step: END
		Execute procedure H_FCP_DHS_4004.		
<b>End of Procedure</b>				