

Check Launch mode configuration
 File: H_FCP_DHS_4007.xls
 Author: S. Manganelli



Procedure Summary

Objectives

This procedure describes the steps needed to check the S/C status in Launch mode.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

n/a

End of Procedure

n/a

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD4007

Referenced Displays

ANDs	GRDs	SLDs
ZAZAI999		(None)
ZAZAB999		

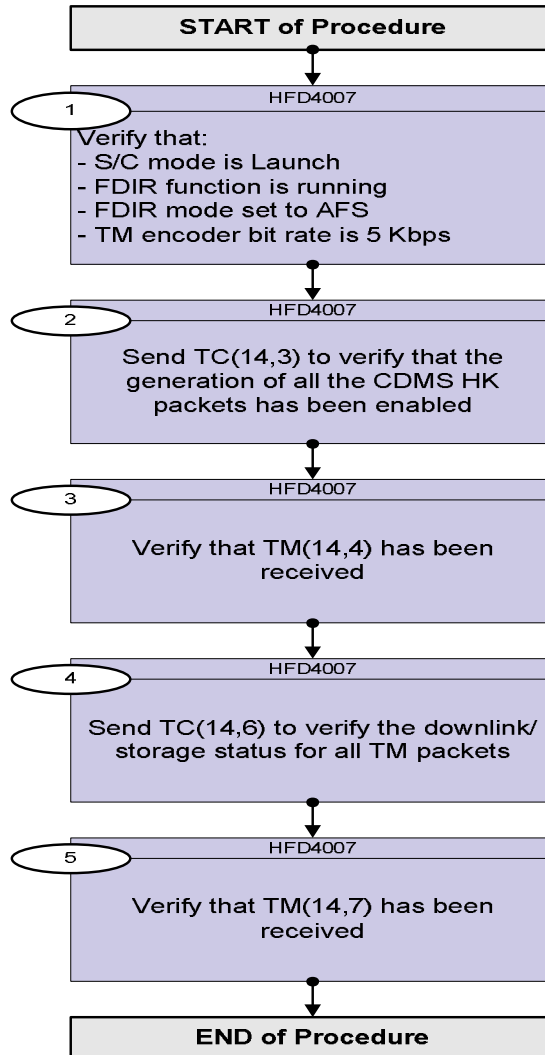
Configuration Control Information

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

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
<p><i>TC Seq. Name :HFD4007 (Check Launch mode)</i></p> <p><i>TimeTag Type:</i> <i>Sub Schedule ID:</i></p> <p style="text-align: center;">□</p>				
1		<p><i>Verify that:</i></p> <ul style="list-style-type: none"> - S/C mode is Launch - FDIR function is running - FDIR mode set to AFS - TM encoder bit rate is 5 Kbps 		Next Step: 2
		<p>Verify Telemetry</p> <p>CurrentMode DEL34170</p>	= LaunchMode	AND=ZAZAI999
		<p>Verify Telemetry</p> <p>FdirSts DEG23170</p>	= Running	AND=ZAZAI999
		<p>Verify Telemetry</p> <p>FdirMode DE81D170</p>	= AFS	AND=ZAZAI999
		<p>Verify Telemetry</p> <p>TME_BITRATE DEMRF160</p>	= 5 Kbps	AND=ZAZAB999
2		<p><i>Send TC(14,3) to verify that the generation of all the CDMS HK packets has been enabled</i></p>		Next Step: 3
		<p>When this request is received, the enabled telemetry source packet of the CDMU are determined and a report (14,4) is generated.</p>		
		<p>Execute Telecommand</p> <p style="text-align: center;">ReportEnabledTm</p> <p><i>TC Control Flags :</i></p> <p style="text-align: center;">GBM IL DSE --Y -- --</p> <p><i>Subsch. ID : 10</i> <i>Det. descr. : Report Enabled Telemetry Packets</i></p>	DC904180	
3		<p><i>Verify that TM(14,4) has been received</i></p>		Next Step: 4
		<p>The following CDMS HK have to be enabled:</p> <ul style="list-style-type: none"> - ID 0x0 (High Rate), - ID 0x8 (Low Rate), - ID 0x40 (P1), - ID 0x41 (P4), - ID 0x42 (P64), - ID 0x43 (P128). 		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Packet Reception TM Packet Generation Status Report Packet Details: APID: 16 Type: 14 Subtype: 4 PI1: PI2:	TMpktGenRep	
		Verify Telemetry N DE140180		(None)
		The following 3 parameters are repeated N times		
		Verify Telemetry Type DE141180		(None)
		Verify Telemetry Sub-Type DE142180		(None)
		Verify Telemetry Packet-ID DE143180		(None)
4		Send TC(14,6) to verify the downlink/storage status for all TM packets		Next Step: 5
		When CDMU receives this request, the real time down-linking and SSMM storage status are determined for all telemetry packet {Application ID, Type, Sub-Type} and a report (14,7) is generated.		
		Execute Telecommand RepDownlinkTMStorage TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : Report Telemetry Packets Down-linking/ Storage Status	DC141160	
5		Verify that TM(14,7) has been received		Next Step: END
		Verify Packet Reception Telemetry Packets DownLinking-Storage Status Report Packet Details: APID: 16 Type: 14 Subtype: 7 PI1: PI2:	(14,7)-1400	
		Verify Telemetry N DE042160		(None)
		The following 5 parameters are repeated N times		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry APID DE047160		(None)
		Verify Telemetry Type DE043160		(None)
		Verify Telemetry Sub-Type DE046160		(None)
		Verify Telemetry Transmit_Flag DE048160		(None)
		Verify Telemetry Storage_Flag DE049160		(None)
End of Procedure				