

Report OBCP management function
 File: H_FCP_DHS_3047.xls
 Author: S. Manganelli



Procedure Summary

Objectives

The ASW function "OBCP Management" is responsible of executing the loaded Procedures.

This procedure describes the steps needed to acquire the status of the function (0xFF for running idle or 0x00 for stopped).

Moreover in the TM packet are also reported the following information:

- N, number of OBCP threads;
- Repeated N times:
 - OBCP thread Index;
 - OBCP status;
 - Procedure ID;
 - Current step.

Summary of Constraints

n/a

Spacecraft Configuration

Start of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
 - TM Encoder/OBT A or B active (nominally A)
 - RM A and B enabled
 - MM A and B ON

End of Procedure

- CDMU in default configuration, that is:
- PM A or B ON (nominally A)
 - TM Encoder/OBT A or B active (nominally A)
 - RM A and B enabled
 - MM A and B ON

Reference File(s)

Input Command Sequences

Output Command Sequences

HFD3047

Referenced Displays

ANDs	GRDs	SLDs
ZAZ3U999		(None)

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
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Status : Version 3 - Unchanged
 Last Checkin: 11/12/08

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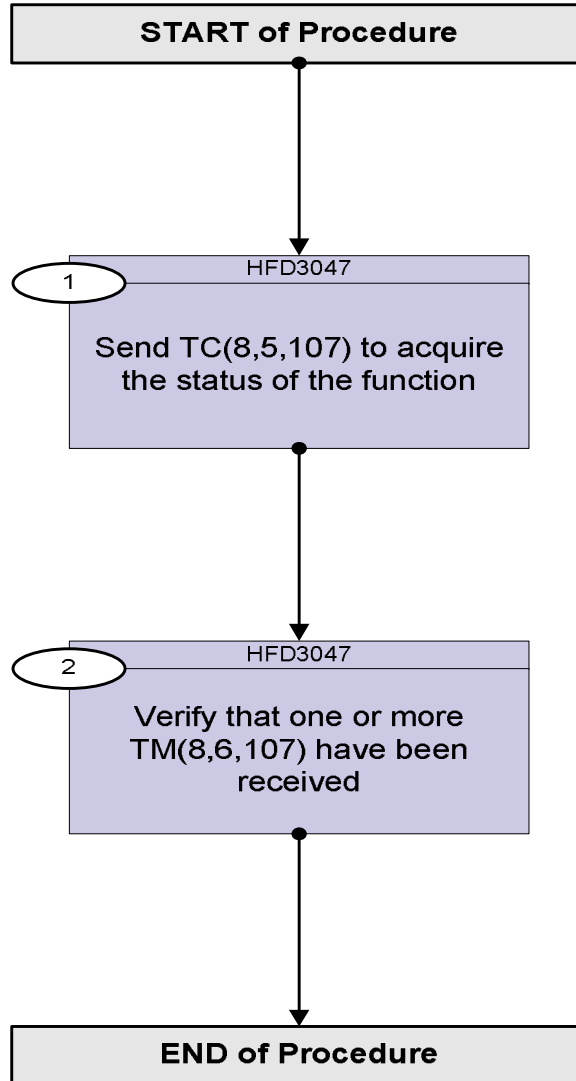


05/11/07		1	Created	cmevi-hp	
10/06/08	1	2	TC Flag and Seq Properly changed	S. Manganelli	
11/12/08	2	3	Checked against OBSW 3_6_2	S. Manganelli	

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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HFD3047 (Report OBCP mgmt fun)				
TimeTag Type: N Sub Schedule ID: □				
1		Send TC(8,5,107) to acquire the status of the function		Next Step: 2
		Report OBCP Management Status telecommand is used for requiring the status of the function as a telemetry packet. Default status of the function: "stopped".		
		Execute Telecommand ReportObcpManagSts TC Control Flags : Subsch. ID : 10 Det. descr. : Report Obcp Management Status, TC(8,5,107) GBM IL DSE --Y -- --	DCN05170	
2		Verify that one or more TM(8,6,107) have been received		Next Step: END
		WARNING: it is not possible to know a priori the number of TM packets that will be sent.		
		Only one of the following two types of TM packets will be received		
		- If the function is started:		
		Verify Packet Reception TM 8-6-107 OBCP Management Status Report - Running Idle Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 27647 PI2: 0	ObcpMngRun	
		- If the function is stopped:		
		Verify Packet Reception TM 8-6-107 OBCP Management Status Report - Stopped Packet Details: APID: 16 Type: 8 Subtype: 6 PI1: 27392 PI2: 0	ObcpMngStop	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Each TM packet contains the following parameters:		
		Verify Telemetry Function_ID DE008170	= OBCPManag	AND=ZAZ3U999
		Verify Telemetry ObcpManActivId DE305170		(None)
		or		
		Verify Telemetry ObcpManActivId DE305170		(None)
		Verify Telemetry SID DE010170	= 0 <dec>	(None)
		Verify Telemetry N_Repetition DE014170		(None)
		Parameters repeated N times:		
		Verify Telemetry OclThrdIndex DE302170		(None)
		Verify Telemetry ObcpStatus DE303170		(None)
		WARNING: if the value of the previous parameter is zero (OBCP status = stopped) the value of the following 2 parameters is not meaningful.		
		Verify Telemetry ProcedureID DE293170		(None)
		Verify Telemetry ObcpStepNr DE304170		(None)
End of Procedure				