

Dump and interpretation of Unit in Use table
 File: H_FCP_DHS_3013.xls
 Author: S. Manganelli



Procedure Summary

Objectives

The purpose of this procedure is to acquire the Unit in use table containing all the units information needed for nominal operation and FDIR operation.
 The UIU is used by the CDMU ASW in conjunction with service 12 to handle levels 1 to 3 failures.

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

Referenced Displays

ANDs	GRDs	SLDs
ZAZAM999		(None)
ZAZAL999		
ZAZAN999		
ZAZAO999		

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
15/11/07		1	Created	cmevi-hp	
16/01/08	1	2	Batch update of TC flags	S. Manganelli	
03/09/08		3	DB updates following OBSW 3_6 (OBCP parameters added but still not included in any packet)	S. Manganelli	

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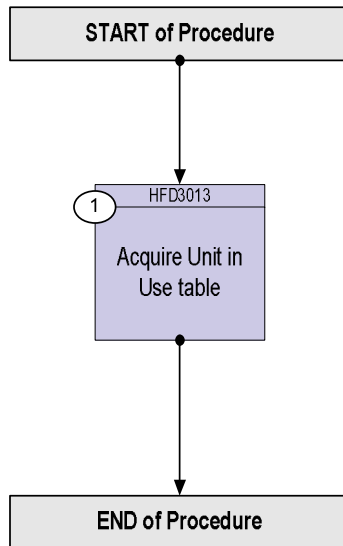


01/12/08		4	Procedure updated according to latest version received from industry on 24/10/2008	cmevi-hp	
12/01/09	2	5	Updated following OBSW 3_8	S. Manganelli	

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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 :HFD3013 (Acquire UIU table)				
TimeTag Type: Sub Schedule ID: □				
1		Acquire Unit in Use table		Next Step: END
		The configuration of the units contained in the Unit in use table can be read from the data pool through the following ASW parameters (part of "Low Rate" Essential HK).		
		HPS 1/18 and 2/17 (DID_ASW_HPS_1_18_2_17_STS)		
		Verify Telemetry Hps17FailSts DEG68170		AND=ZAZAM999
		Verify Telemetry Hps17FuncSts DEG69170		(None)
		Verify Telemetry Hps17LogSts DEG70170		(None)
		Verify Telemetry Hps17Use DEG71170		(None)
		Verify Telemetry Hps2FailSts DEG80170		(None)
		Verify Telemetry Hps2FuncSts DEG81170		(None)
		Verify Telemetry Hps2LogSts DEG82170		(None)
		Verify Telemetry Hps2Use DEG83170		(None)
		Verify Telemetry Hps18FailSts DEG72170		(None)
		Verify Telemetry Hps18FuncSts DEG73170		(None)
		Verify Telemetry Hps18LogSts DEG74170		(None)
		Verify Telemetry Hps18Use DEG75170		(None)
		Verify Telemetry Hps1FailSts DEG76170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps1FuncSts DEG77170		(None)
		Verify Telemetry Hps1LogSts DEG78170		(None)
		Verify Telemetry Hps1Use DEG79170		(None)
		HPS 3/16 and 4/15 (DID_ASW_HPS_3_16_4_15_STS)		
		Verify Telemetry Hps15FailSts DEG60170		AND=ZAZAM999
		Verify Telemetry Hps15FuncSts DEG61170		(None)
		Verify Telemetry Hps15LogSts DEG62170		(None)
		Verify Telemetry Hps15Use DEG63170		(None)
		Verify Telemetry Hps4FailSts DEG88170		(None)
		Verify Telemetry Hps4FuncSts DEG89170		(None)
		Verify Telemetry Hps4LogSts DEG90170		(None)
		Verify Telemetry Hps4Use DEG91170		(None)
		Verify Telemetry Hps16FailSts DEG64170		(None)
		Verify Telemetry Hps16FuncSts DEG65170		(None)
		Verify Telemetry Hps16LogSts DEG66170		(None)
		Verify Telemetry Hps16Use DEG67170		(None)
		Verify Telemetry Hps3FailSts DEG84170		(None)
		Verify Telemetry Hps3FuncSts DEG85170		(None)
		Verify Telemetry Hps3LogSts DEG86170		(None)
		Verify Telemetry Hps3Use DEG87170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HPS 5/14 and 6/13 (DID_ASW_HPS_5_14_6_13_STS)		
		Verify Telemetry Hps13FailSts DEG52170		AND=ZAZAM999
		Verify Telemetry Hps13FuncSts DEG53170		(None)
		Verify Telemetry Hps13LogSts DEG54170		(None)
		Verify Telemetry Hps13Use DEG55170		(None)
		Verify Telemetry Hps6FailSts DEG96170		(None)
		Verify Telemetry Hps6FuncSts DEG97170		(None)
		Verify Telemetry Hps6LogSts DEG98170		(None)
		Verify Telemetry Hps6Use DEG99170		(None)
		Verify Telemetry Hps14FailSts DEG56170		(None)
		Verify Telemetry Hps14FuncSts DEG57170		(None)
		Verify Telemetry Hps14LogSts DEG58170		(None)
		Verify Telemetry Hps14Use DEG59170		(None)
		Verify Telemetry Hps5FailSts DEG92170		(None)
		Verify Telemetry Hps5FuncSts DEG93170		(None)
		Verify Telemetry Hps5LogSts DEG94170		(None)
		Verify Telemetry Hps5Use DEG95170		(None)
		HPS 7/12 and 8/11 (DID_ASW_HPS_7_12_8_11_STS)		
		Verify Telemetry Hps11FailSts DEG44170		AND=ZAZAL999
		Verify Telemetry Hps11FuncSts DEG45170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Hps11LogSts DEG46170		(None)
		Verify Telemetry Hps11Use DEG47170		(None)
		Verify Telemetry Hps8FailSts DEH04170		(None)
		Verify Telemetry Hps8FuncSts DEH05170		(None)
		Verify Telemetry Hps8LogSts DEH06170		(None)
		Verify Telemetry Hps8Use DEH07170		(None)
		Verify Telemetry Hps12FailSts DEG48170		(None)
		Verify Telemetry Hps12FuncSts DEG49170		(None)
		Verify Telemetry Hps12LogSts DEG50170		(None)
		Verify Telemetry Hps12Use DEG51170		(None)
		Verify Telemetry Hps7FailSts DEH00170		(None)
		Verify Telemetry Hps7FuncSts DEH01170		(None)
		Verify Telemetry Hps7LogSts DEH02170		(None)
		Verify Telemetry Hps7Use DEH03170		(None)
		HPS 9/10 and Survival Register (DID_ASW_HPS_9_10_SURVEG_STS)		
		Verify Telemetry SurvReg2FailSts DEL00170		AND=ZAZAM999
		Verify Telemetry SurvReg2FuncSts DEL01170		(None)
		Verify Telemetry SurvReg2LogSts DEL02170		(None)
		Verify Telemetry SurvReg2Use DEL03170		(None)
		Verify Telemetry SurvReg1FailSts DEH96170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry SurvReg1FuncSts DEH97170		(None)
		Verify Telemetry SurvReg1LogSts DEH98170		(None)
		Verify Telemetry SurvReg1Use DEH99170		(None)
		Verify Telemetry Hps10FailSts DEG40170		(None)
		Verify Telemetry Hps10FuncSts DEG41170		(None)
		Verify Telemetry Hps10LogSts DEG42170		(None)
		Verify Telemetry Hps10Use DEG43170		(None)
		Verify Telemetry Hps9FailSts DEH08170		(None)
		Verify Telemetry Hps9FuncSts DEH09170		(None)
		Verify Telemetry Hps9LogSts DEH10170		(None)
		Verify Telemetry Hps9Use DEH11170		(None)
		RFDN switches 1/2/3/4 (DID_ASW_RFDN_STS)		
		Verify Telemetry Rfdn4FailSts DEH60170		AND=ZAZAM999
		Verify Telemetry Rfdn4FuncSts DEH61170		(None)
		Verify Telemetry Rfdn4LogSts DEH62170		(None)
		Verify Telemetry Rfdn4Use DEH63170		(None)
		Verify Telemetry Rfdn3FailSts DEH56170		(None)
		Verify Telemetry Rfdn3FuncSts DEH57170		(None)
		Verify Telemetry Rfdn3LogSts DEH58170		(None)
		Verify Telemetry Rfdn3Use DEH59170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Rfdn2FailSts DEH52170		(None)
		Verify Telemetry Rfdn2FuncSts DEH53170		(None)
		Verify Telemetry Rfdn2LogSts DEH54170		(None)
		Verify Telemetry Rfdn2Use DEH55170		(None)
		Verify Telemetry Rfdn1FailSts DEH48170		(None)
		Verify Telemetry Rfdn1FuncSts DEH49170		(None)
		Verify Telemetry Rfdn1LogSts DEH50170		(None)
		Verify Telemetry Rfdn1Use DEH51170		(None)
		MTL buffer A/B and SGM A/B (DID_ASW_MTL_SGM_STS)		
		Verify Telemetry Sgm2FailSts DEH76170		AND=ZAZAM999
		Verify Telemetry Sgm2FuncSts DEH77170		(None)
		Verify Telemetry Sgm2LogSts DEH78170		(None)
		Verify Telemetry Sgm2Use DEH79170		(None)
		Verify Telemetry Sgm1FailSts DEH72170		(None)
		Verify Telemetry Sgm1FuncSts DEH73170		(None)
		Verify Telemetry Sgm1LogSts DEH74170		(None)
		Verify Telemetry Sgm1Use DEH75170		(None)
		Verify Telemetry Mtl2FailSts DEH92170		(None)
		Verify Telemetry Mtl2FuncSts DEH93170		(None)
		Verify Telemetry Mtl2LogSts DEH94170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Mtl2Use DEH95170		(None)
		Verify Telemetry Mtl1FailSts DEH88170		(None)
		Verify Telemetry Mtl1FuncSts DEH89170		(None)
		Verify Telemetry Mtl1LogSts DEH90170		(None)
		Verify Telemetry Mtl1Use DEH91170		(None)
		TTR TM A/B and CPDU A/B (DID_ASW_TTR_CPDU_STS)		
		Verify Telemetry Cpdu2FailSts DEG12170		AND=ZAZAN999
		Verify Telemetry Cpdu2FuncSts DEG13170		(None)
		Verify Telemetry Cpdu2LogSts DEG14170		(None)
		Verify Telemetry Cpdu2Use DEG15170		(None)
		Verify Telemetry Cpdu1FailSts DEG08170		(None)
		Verify Telemetry Cpdu1FuncSts DEG09170		(None)
		Verify Telemetry Cpdu1LogSts DEG10170		(None)
		Verify Telemetry Cpdu1Use DEG11170		(None)
		Verify Telemetry Ttr2FailSts DEL13170		(None)
		Verify Telemetry Ttr2FuncSts DEL14170		(None)
		Verify Telemetry Ttr2LogSts DEL15170		(None)
		Verify Telemetry Ttr2Use DEL16170		(None)
		Verify Telemetry Ttr1FailSts DEL09170		(None)
		Verify Telemetry Ttr1FuncSts DEL10170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TtrlLogSts DEL11170		(None)
		Verify Telemetry TtrlUse DEL12170		(None)
		XPND 1/2 Transmitter and TWT Assembly 1/2 (DID_ASW_XPND_TWT_LCL_STS)		
		Verify Telemetry Twta2FailSts DEL22170		AND=ZAZAN999
		Verify Telemetry Twta2FuncSts DEL23170		(None)
		Verify Telemetry Twta2LogSts DEL24170		(None)
		Verify Telemetry Twta2Use DEL25170		(None)
		Verify Telemetry TwtalFailSts DEL18170		(None)
		Verify Telemetry TwtalFuncSts DEL19170		(None)
		Verify Telemetry TwtalLogSts DEL20170		(None)
		Verify Telemetry TwtalUse DEL21170		(None)
		Verify Telemetry XpndTx2FailSts DEL30170		(None)
		Verify Telemetry XpndTx2FuncSts DEL31170		(None)
		Verify Telemetry XpndTx2LogSts DEL32170		(None)
		Verify Telemetry XpndTx2Use DEL33170		(None)
		Verify Telemetry XpndTx1FailSts DEL26170		(None)
		Verify Telemetry XpndTx1FuncSts DEL27170		(None)
		Verify Telemetry XpndTx1LogSts DEL28170		(None)
		Verify Telemetry XpndTx1Use DEL29170		(None)
		EPC 1/2 and TWT Amplifier 1/2 (DID_ASW_EPC_TWT_AMP_STS)		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry TwtAmp2FailSts DEH16170		AND=ZAZAN999
		Verify Telemetry TwtAmp2FuncSts DEH17170		(None)
		Verify Telemetry TwtAmp2LogSts DEH18170		(None)
		Verify Telemetry TwtAmp2Use DEH19170		(None)
		Verify Telemetry TwtAmp1FailSts DEH12170		(None)
		Verify Telemetry TwtAmp1FuncSts DEH13170		(None)
		Verify Telemetry TwtAmp1LogSts DEH14170		(None)
		Verify Telemetry TwtAmp1Use DEH15170		(None)
		Verify Telemetry Epc2FailSts DEG28170		(None)
		Verify Telemetry Epc2FuncSts DEG29170		(None)
		Verify Telemetry Epc2LogSts DEG30170		(None)
		Verify Telemetry Epc2Use DEG31170		(None)
		Verify Telemetry Epc1FailSts DEG24170		(None)
		Verify Telemetry Epc1FuncSts DEG25170		(None)
		Verify Telemetry Epc1LogSts DEG26170		(None)
		Verify Telemetry Epc1Use DEG27170		(None)
		OBCP buffer A/B and XPND 1/2 RX (DID_ASW_OBCP_RX_STS)		
		Verify Telemetry XpndRx2FailSts DEL63170		AND=ZAZAN999
		Verify Telemetry XpndRx2FuncSts DEL62170		(None)
		Verify Telemetry XpndRx2LogSts DEL61170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry XpndRx2Use DEL60170		(None)
		Verify Telemetry XpndRx1FailSts DEL59170		(None)
		Verify Telemetry XpndRx1FuncSts DEL58170		(None)
		Verify Telemetry XpndRx1LogSts DEL57170		(None)
		Verify Telemetry XpndRx1Use DEL56170		(None)
		Verify Telemetry Obcp2FailSts DEH68170		(None)
		Verify Telemetry Obcp2FuncSts DEH69170		(None)
		Verify Telemetry Obcp2LogSts DEH70170		(None)
		Verify Telemetry Obcp2Use DEH71170		(None)
		Verify Telemetry Obcp1FailSts DEH64170		(None)
		Verify Telemetry Obcp1FuncSts DEH65170		(None)
		Verify Telemetry Obcp1LogSts DEH66170		(None)
		Verify Telemetry Obcp1Use DEH67170		(None)
		PACS DPU and CCU (DID_ASW_PACS_DPU_CCU_STS)		
		Verify Telemetry CcuBFuncSts DEL96171		AND=ZAZA0999
		Verify Telemetry CcuAFuncSts DEL97171		(None)
		Verify Telemetry PacsDpuFuncSts DEL50171		(None)
		HIFI WOV and HIFI HRV (DID_ASW_HIFI_WOV_HRV_STS)		
		Verify Telemetry HifiHrvFuncSts DEL41171		AND=ZAZA0999
		Verify Telemetry HifiWovFuncSts DEL49171		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HIFI WEV and HIFI WOH (DID_ASW_HIFI_WEV_WOH_STS)		
		Verify Telemetry HifiWohFuncSts DEL40171		AND=ZAZA0999
		Verify Telemetry HifiWevFuncSts DEL53171		(None)
		HIFI WEH and HIFI HRH (DID_ASW_HIFI_WEH_HRH_STS)		
		Verify Telemetry HifiHrhFuncSts DEL46171		AND=ZAZA0999
		Verify Telemetry HifiWehFuncSts DEL48171		(None)
		HIFI LCU and HIFI IFV (DID_ASW_HIFI_LCU_IFV_STS)		
		Verify Telemetry HifiIfvFuncSts DEL39171		AND=ZAZA0999
		Verify Telemetry HifiLcuFuncSts DEL55171		(None)
		HIFI LSU and CRS2 (DID_ASW_HIFI_LSU_CRIS2_STS)		
		Verify Telemetry Crs2HFuncSts DEN69171		AND=ZAZA0999
		Verify Telemetry HifiLsuFuncSts DEL42171		(None)
		PACS BOLC and PACS DEC (DID_ASW_PACS_BOLC_DEC_STS)		
		Verify Telemetry PacsDec1FuncSts DEL44171		AND=ZAZA0999
		Verify Telemetry PacsBolc1FuncSt DEL54171		(None)
		GYRO and CRS1 (DID_ASW_GYRO_CRIS1_STS)		
		Verify Telemetry Gyro1FuncSts DEH38171		AND=ZAZA0999
		Verify Telemetry Crs1HFuncSts DEN68171		(None)
		PCDU TMTC A/B and STR 1/2 (DID_ASW_PCDU_STR_STS)		
		Verify Telemetry Str2FuncSts DEG00170		AND=ZAZA0999

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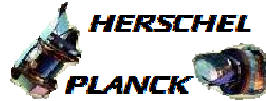
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		Verify Telemetry Str1FuncSts DEG01170		(None)
		Verify Telemetry Pcdu2FuncSts DEG02170		(None)
		Verify Telemetry Pcdu2FailSts DEN05170		(None)
		Verify Telemetry Pcdu2LogSts DEN04170		(None)
		Verify Telemetry Pcdu2Use DEN03170		(None)
		Verify Telemetry PcdulFailSts DEN02170		(None)
		Verify Telemetry PcdulFuncSts DEG03170		(None)
		Verify Telemetry PcdulLogSts DEN01170		(None)
		Verify Telemetry PcdulUse DEN00170		(None)
		RW1 and RW2 (DID_ASW_RW1_RW2_STS)		
		Verify Telemetry Rw2FuncSts DEL37171		AND=ZAZA0999
		Verify Telemetry Rw1FuncSts DEL38171		(None)
		RW3 and RW4 (DID_ASW_RW3_RW4_STS)		
		Verify Telemetry Rw4FuncSts DEG33171		AND=ZAZA0999
		Verify Telemetry Rw3FuncSts DEL36171		(None)
		The following parameters are part of "TCS Diagnostic HK".		
		HGPS1 and HGPS2 (DID_ASW_HGPS1_HGPS2_STS)		
		Verify Telemetry Hgps1FuncSts DEN74170		AND=ZAZA0999
		Verify Telemetry Hgps2FuncSts DEN75170		(None)
		HGPS3 and HGPS4 (DID_ASW_HGPS3_HGPS4_STS)		

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		Verify Telemetry Hgps3FuncSts DEN76170		AND=ZAZA0999
		Verify Telemetry Hgps4FuncSts DEN77170		(None)
		HGPS5 and HGPS6 (DID_ASW_HGPS5_HGPS6_STS)		
		Verify Telemetry Hgps5FuncSts DEN78170		AND=ZAZA0999
		Verify Telemetry Hgps6FuncSts DEN79170		(None)
		HGPS7 and HGPS8 (DID_ASW_HGPS7_HGPS8_STS)		
		Verify Telemetry Hgps7FuncSts DEN80170		AND=ZAZA0999
		Verify Telemetry Hgps8FuncSts DEN81170		(None)
		HGPS9 and HGPS10 (DID_ASW_HGPS9_HGPS10_STS)		
		Verify Telemetry Hgps9FuncSts DEN82170		AND=ZAZA0999
		Verify Telemetry Hgps10FuncSts DEN83170		(None)
		HGPS11 and HGPS12 (DID_ASW_HGPS11_HGPS12_STS)		
		Verify Telemetry Hgps11FuncSts DEN84170		AND=ZAZA0999
		Verify Telemetry Hgps12FuncSts DEN85170		(None)
		HGPS13 and HGPS14 (DID_ASW_HGPS13_HGPS14_STS)		
		Verify Telemetry Hgps13FuncSts DEN86170		AND=ZAZA0999
		Verify Telemetry Hgps14FuncSts DEN87170		(None)
		HGPS15 and HGPS16 (DID_ASW_HGPS15_HGPS16_STS)		
		Verify Telemetry Hgps15FuncSts DEN88170		AND=ZAZA0999
		Verify Telemetry Hgps16FuncSts DEN89170		(None)

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
		HGPS17 and HGPS18 (DID_ASW_HGPS17_HGPS18_STS)		
		Verify Telemetry Hgps17FuncSts DEN90170		AND=ZAZA0999
		Verify Telemetry Hgps18FuncSts DEN91170		(None)
End of Procedure				