

Switch ON HCS of HPS6
 File: H_CRP_TCS_06H1.xls
 Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to switch ON a selected Heater Control Switch (HCS) of HPS6.

The location units of the HCSs belonging to HPS6 are the following:

- HCS1: Decontamination 7
- HCS2: RWA 4
- HCS3: RWA 1
- HCS4: RWA 3
- HCS5: FHWEV
- HCS6: RWA 2

Nominally the temperature control, and therefore the HCSs ON/OFF commanding, is managed by the CDMU ASW and it is driven through the Thermal Control Table (TCT).

Summary of Constraints

The selected HCS is switched ON through ASW TC(8,4,112,5); thus the status of the ASW function "PCDU Management" has to be "running".

Spacecraft Configuration

Start of Procedure

CDMU in default configuration;
 HPS6 ON;
 HCS OFF.

End of Procedure

CDMU in default configuration;
 HPS6 ON;
 HCS switched ON.

Reference File(s)

Input Command Sequences

Output Command Sequences

HRT06H1

Referenced Displays

ANDs	GRDs	SLDs
WAHT1584		
ZAD32999		

Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
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Status : Version 1 - Unchanged
 Last Checkin: 16/02/09

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16/02/09

2.1

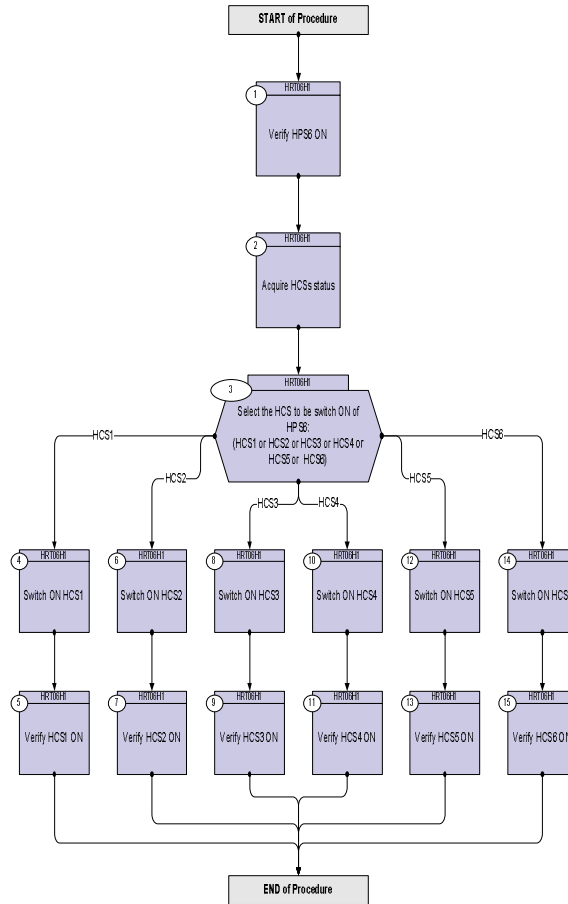
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name : HRT06H1 (Switch ON HCS HPS6)				
TimeTag Type: N				
Sub Schedule ID:				
□				
1		Verify HPS6 ON		Next Step: 2
		Verify Telemetry GRP6_HPS_STS WM42G565 = ON		AND=WAHT1584
2		Acquire HCSs status		Next Step: 3
		Verify Telemetry Decon7_G6H1_S WM41A565		AND=WAHT1584
		Verify Telemetry RWA4_G6H2_S WM41B565		AND=WAHT1584
		Verify Telemetry RWA1_G6H3_S WM41C565		AND=WAHT1584
		Verify Telemetry RWA3_G6H4_S WM41D565		AND=WAHT1584
		Verify Telemetry FHWIV_G6H5_S WM41E565		AND=WAHT1584
		Verify Telemetry RWA2_G6H6_S WM41F565		AND=WAHT1584
3		Select the HCS to be switch ON of HPS6: (HCS1 or HCS2 or HCS3 or HCS4 or HCS5 or HCS6)		Next Step: HCS1 4 HCS2 6 HCS3 8 HCS4 10 HCS5 12 HCS6 14
4		Switch ON HCS1		Next Step: 5
		Execute Telecommand SwOn_Decont_7_G6H1 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On Decontamination 7 Group 6 HCS 1	DCC49170	
		GBM IL DSE --Y -- --		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
5		Verify HCS1 ON		Next Step: END
		Verify Telemetry Decon7_G6H1_S WM41A565	= ON	AND=WAHT1584
6		Switch ON HCS2		Next Step: 7
		Execute Telecommand SwOn_RWA4_G6H2 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On RWA 4 Group 6 HCS 2	DCC50170	
7		Verify HCS2 ON		Next Step: END
		Verify Telemetry RWA4_G6H2_S WM41B565	= ON	AND=ZAD32999
8		Switch ON HCS3		Next Step: 9
		Execute Telecommand SwOn_RWA1_G6H3 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On RWA 1 Group 6 HCS 3	DCC51170	
9		Verify HCS3 ON		Next Step: END
		Verify Telemetry RWA1_G6H3_S WM41C565	= ON	AND=WAHT1584
10		Switch ON HCS4		Next Step: 11
		Execute Telecommand SwOn_RWA3_G6H4 TC Control Flags : GBM IL DSE --Y -- --- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On RWA 3 Group 6 HCS 4	DCC52170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
11		Verify HCS4 ON		Next Step: END
		Verify Telemetry RWA3_G6H4_S WM41D565	= ON	AND=WAHT1584
12		Switch ON HCS5		Next Step: 13
		Execute Telecommand SwOn_FHWEV_G6H5 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On FHWEV Group 6 HCS 5	DCC53170 GBM IL DSE --Y -- --	
13		Verify HCS5 ON		Next Step: END
		Verify Telemetry FHWIV_G6H5_S WM41E565	= ON	AND=WAHT1584
14		Switch ON HCS6		Next Step: 15
		Execute Telecommand SwOn_RWA2 G6H6 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On RWA 2 Group 6 HCS 6	DCC54170 GBM IL DSE --Y -- --	
15		Verify HCS6 ON		Next Step: END
		Verify Telemetry RWA2_G6H6_S WM41F565	= ON	AND=WAHT1584
End of Procedure				