

Switch OFF HCS of HPS8  
 File: H\_CRP\_TCS\_08H0.xls  
 Author: E. Picallo



## Procedure Summary

### Objectives

This procedure describes the steps needed to switch OFF a selected Heater Control Switch (HCS) of HPS8.

The location units of the HCSs belonging to HPS8 are the following:

- HCS1: FHHRV
- HCS2: FCV C3A
- HCS3: RCS piping
- HCS4: STR 2 baffle
- HCS5: RCS piping
- HCS6: FHLCU

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 OFF through ASW TC(8,4,112,3); thus the status of the ASW function "PCDU Management" has to be "running".

### Spacecraft Configuration

#### Start of Procedure

CDMU in default configuration;  
 HPS8 ON;  
 HCS ON.

#### End of Procedure

CDMU in default configuration;  
 HPS8 ON;  
 HCS switched OFF.

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HRT08H0

### Referenced Displays

ANDs      GRDs      SLDs  
 WAHT2584

### Configuration Control Information

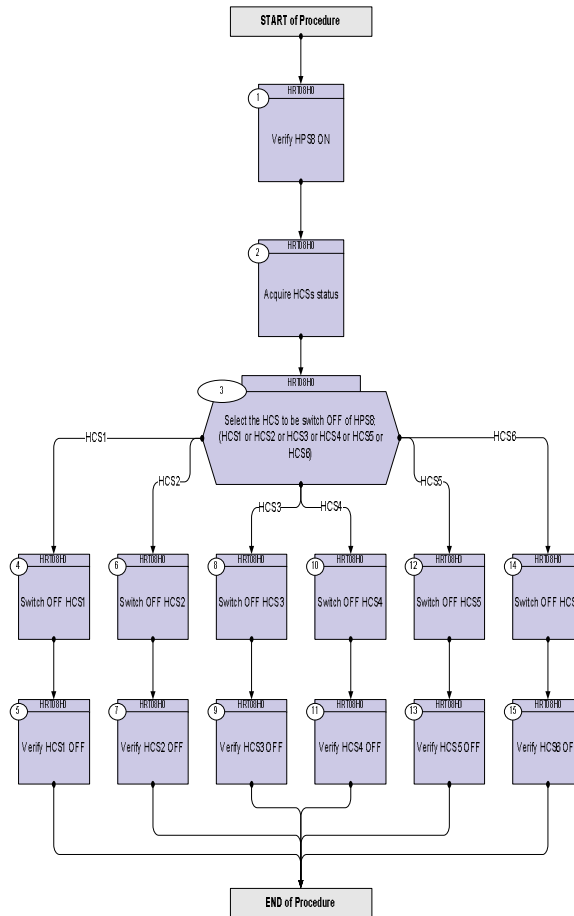
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16/02/09	2.1	1	Created	E. Picallo	

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## Procedure Flowchart Overview



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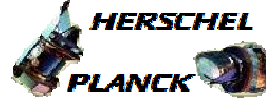
Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<b>Beginning of Procedure</b>				
TC Seq. Name : HRT08H0 (Switch OFF HCS HPS8)				
TimeTag Type: N Sub Schedule ID:  □				
1		Verify HPS8 ON		Next Step: 2
		Verify Telemetry GRP8_HPS_STS WM52G565 = ON		AND=WAHT2584
2		Acquire HCSs status		Next Step: 3
		Verify Telemetry FHHRV_G8H1_S WM51A565		AND=WAHT2584
		Verify Telemetry FcvC3A_G8H2_S WM51B565		AND=WAHT2584
		Verify Telemetry RCSpipG8H3_S WM51C565		AND=WAHT2584
		Verify Telemetry STR2baffG8H4_S WM51D565		AND=WAHT2584
		Verify Telemetry RCSpipG8H5_S WM51E565		AND=WAHT2584
		Verify Telemetry FHLCU_G8H6_S WM51F565		AND=WAHT2584
3		Select the HCS to be switch OFF of HPS8: (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 OFF HCS1		Next Step: 5
		Execute Telecommand SwOff_FHHRV_G8H1  TC Control Flags : GBM IL DSE --Y -- --  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off FHHRV Group 8 HCS 1	DCD87170	

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
5		Verify HCS1 OFF		Next Step: END
		Verify Telemetry FHHRV_G8H1_S WM51A565	= OFF	AND=WAHT2584
6		Switch OFF HCS2		Next Step: 7
		Execute Telecommand SwOff_FCV_C3A_G8H2 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off FCV C3A Group 8 HCS 2	DCD88170	
		GBM IL DSE --Y -- ---		
7		Verify HCS2 OFF		Next Step: END
		Verify Telemetry FcvC3A_G8H2_S WM51B565	= OFF	AND=WAHT2584
8		Switch OFF HCS3		Next Step: 9
		Execute Telecommand SwOff_RCSpip_G8H3 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off RCS piping Group 8 HCS 3	DCD89170	
		GBM IL DSE --Y -- ---		
9		Verify HCS3 OFF		Next Step: END
		Verify Telemetry RCSpipG8H3_S WM51C565	= OFF	AND=WAHT2584
10		Switch OFF HCS4		Next Step: 11
		Execute Telecommand SwOff_STR2baffle_G8H4 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off STR2 baffle Group 8 HCS 4	DCD90170	
		GBM IL DSE --Y -- ---		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
11		Verify HCS4 OFF		Next Step: END
		Verify Telemetry STR2baffG8H4_S WM51D565	= OFF	AND=WAHT2584
12		Switch OFF HCS5		Next Step: 13
		Execute Telecommand SwOff_RCSpip_G8H5  TC Control Flags : GBM IL DSE --Y -- --  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off RCS piping Group 8 HCS 5	DCD91170	
13		Verify HCS5 OFF		Next Step: END
		Verify Telemetry RCSpipG8H5_S WM51E565	= OFF	AND=WAHT2584
14		Switch OFF HCS6		Next Step: 15
		Execute Telecommand SwOff_FHLCU_G8H6  TC Control Flags : GBM IL DSE --Y -- --  Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,3) switch Off FHLCU Group 8 HCS 6	DCD92170	
15		Verify HCS6 OFF		Next Step: END
		Verify Telemetry FHLCU_G8H6_S WM51F565	= OFF	AND=WAHT2584
<b>End of Procedure</b>				