

Switch ON HCS of HPS16
 File: H_CRP_TCS_16H1.xls
 Author: E. Picallo



Procedure Summary

Objectives

This procedure describes the steps needed to switch ON a selected Heater Control Switch (HCS) of HPS16.

The location units of the HCSs belonging to HPS16 are the following:

- HCS1: FBOLC
- HCS2: CRS 1
- HCS3: FPMECDEC
- HCS4: RCS piping
- HCS5: CCU/HSDCU/HSFCU
- HCS6: GYRO

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;
 HPS16 ON;
 HCS OFF.

End of Procedure

CDMU in default configuration;
 HPS16 ON;
 HCS switched ON.

Reference File(s)

Input Command Sequences

Output Command Sequences

HRT16H1

Referenced Displays

ANDs GRDs SLDs
 WAHT3584

Configuration Control Information

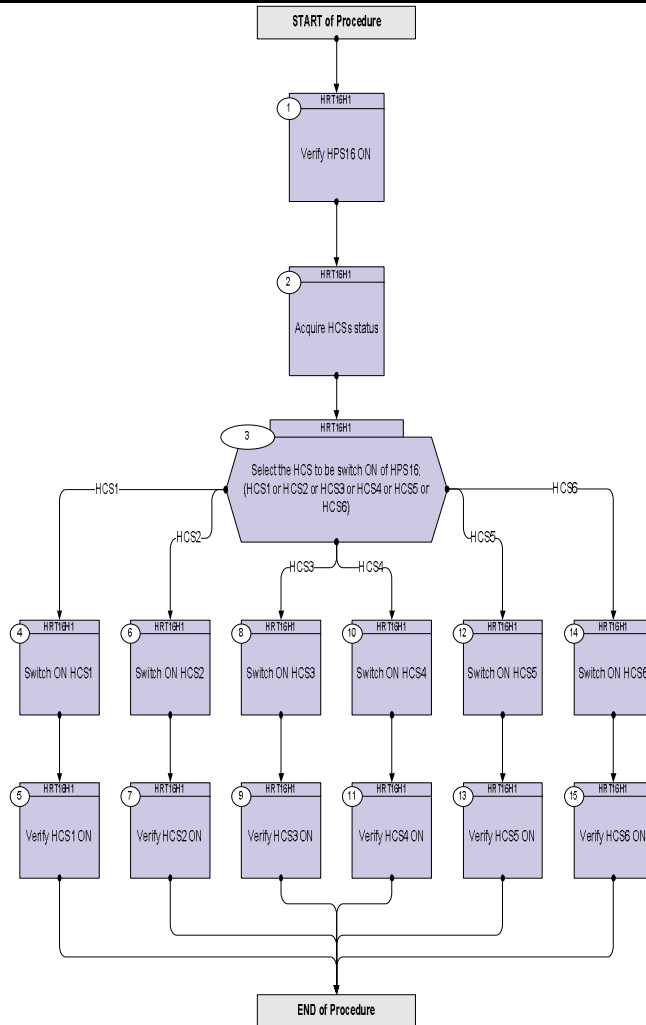
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Procedure Flowchart Overview



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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
Beginning of Procedure				
TC Seq. Name :HRT16H1 (Switch ON HCS HPS16)				
TimeTag Type: N				
Sub Schedule ID:				
□				
1		Verify HPS16 ON		Next Step: 2
		Verify Telemetry GRP16_HPS_STS WM92G565 = ON		AND=WAHT3584
2		Acquire HCSs status		Next Step: 3
		Verify Telemetry FPBOLC_G16H1_S WM91A565		AND=WAHT3584
		Verify Telemetry CRS1_G16H2_S WM91B565		AND=WAHT3584
		Verify Telemetry FPMECDEC_G16H3s WM91C565		AND=WAHT3584
		Verify Telemetry RCSpipG16H4_S WM91D565		AND=WAHT3584
		Verify Telemetry CcuHdhf_G16H5_S WM91E565		AND=WAHT3584
		Verify Telemetry GYRO_G16H6_S WM91F565		AND=WAHT3584
3		Select the HCS to be switch ON of HPS16: (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_FPBOLC_G16H1 TC Control Flags : Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On FPBOLC Group 16 HCS 1	DCD09170 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 FPBOLC_G16H1_S WM91A565	= ON	AND=WAHT3584
6		Switch ON HCS2		Next Step: 7
		Execute Telecommand SwOn_CRS1_G16H2 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On CRS1 Group 16 HCS 2	DCD10170	
7		Verify HCS2 ON		Next Step: END
		Verify Telemetry CRS1_G16H2_S WM91B565	= ON	AND=WAHT3584
8		Switch ON HCS3		Next Step: 9
		Execute Telecommand SwOn_FPMECDEC_G16H3 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On FPMECDEC Group 16 HCS 3	DCD11170	
9		Verify HCS3 ON		Next Step: END
		Verify Telemetry FPMECDEC_G16H3s WM91C565	= ON	AND=WAHT3584
10		Switch ON HCS4		Next Step: 11
		Execute Telecommand SwOn_RCSpip_G16H4 TC Control Flags : GBM IL DSE --Y -- -- Subsch. ID : 10 Det. descr. : PCDU:TC(8,4,112,5) switch On RCS piping Group 16 HCS 4	DCD12170	

