

Set EoC level  
 File: H\_CRP\_EPS\_EOC.xls  
 Author: E. Picallo



## Procedure Summary

### Objectives

This procedure describes the steps needed to switch between the two levels (High and Low) of the battery End of Charge (EoC) value, respectively 25.4V and 24.11V.

### Summary of Constraints

The battery EoC level is high by default.

The EoC threshold change allows possibility to select proper end of charge value depending on the Battery temperature.

The EoC value is changed through ASW TCs(8,4,112,3/5); thus the status of the ASW function "PCDU Management" has to be "running".

### Spacecraft Configuration

#### Start of Procedure

CDMU in default configuration;  
 EoC set to high or low value.

#### End of Procedure

CDMU in default configuration;  
 EoC value updated.

### Reference File(s)

#### Input Command Sequences

#### Output Command Sequences

HRWEOC1  
 HRWEOC2

### Referenced Displays

**ANDs**      **GRDs**      **SLDs**  
 ZAZ7H999

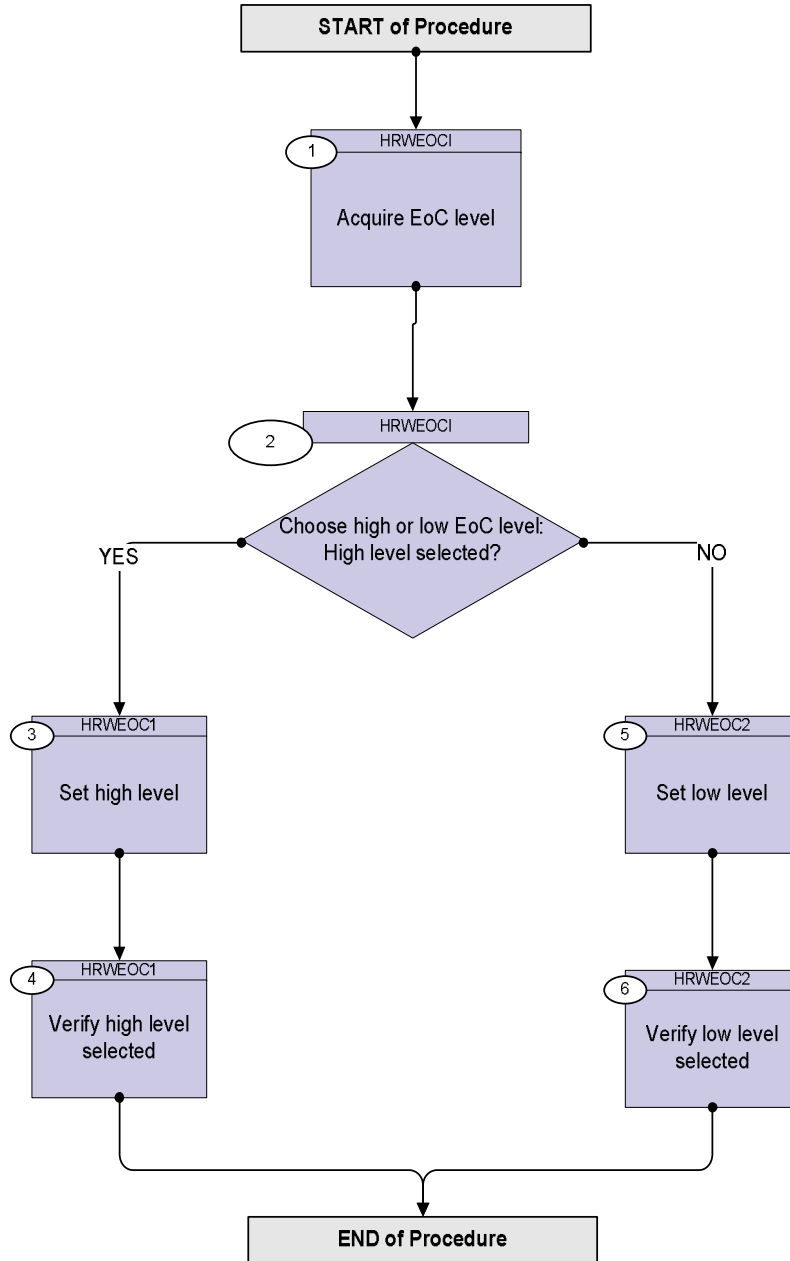
### Configuration Control Information

DATE	FOP ISSUE	VERSION	MODIFICATION DESCRIPTION	AUTHOR	SPR REF
23/07/08	1	1	Created	E. Picallo	
09/01/09	2	2	Display mode update	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 : HRWEOCI (Set EoC level) Set EoC level  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>				
1		Acquire EoC level		Next Step: 2
		<b>Two different EoC voltages levels can be programmed: High (25.4 V) and Low (24.11 V)</b>  <b>The default value is High EoC level</b>		
		Verify Battery end of charge level Telemetry EoC_Level_STS                          WMT1D565		AND=ZAZ7H999
2		Choose high or low EoC level: High level selected?		Next Step: YES 3 NO 5
TC Seq. Name : HRWEOCI (EoC High level)  TimeTag Type: N Sub Schedule ID:  <input type="checkbox"/>				
3		Set high level		Next Step: 4
		Execute Telecommand OffPCDU_LowBCREoC  TC Control Flags : GBM IL DSE --Y -- --  Subsch. ID : 10 Det. descr. : PCDU: TC(8,4,112,3) switch Low_BCR_EoC_Level off	DC80B170	
4		Verify high level selected		Next Step: END
		Verify Telemetry EoC_Level_STS                                  WMT1D565	= High (25.4V)	AND=ZAZ7H999
		<b>Battery end of charge (V<sub>EoC</sub>) high levels:</b> <b>BCR3 25.40 V</b> <b>BCR2 25.32 V</b> <b>BCR1 25.23 V</b>		

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Step No.	Time	Activity/Remarks	TC/TLM	Display/ Branch
<p><i>TC Seq. Name :HRWEOC2 (EoC Low level)</i></p> <p><i>TimeTag Type: N</i>  <i>Sub Schedule ID:</i></p> <p>□</p>				
5		Set low level		Next Step: 6
		Execute Telecommand <p style="text-align: right;"><b>OnPCDU_LowBCREoC</b></p> <p><i>TC Control Flags :</i></p> <p style="text-align: right;"><b>GBM IL DSE</b>  <b>--Y -- --</b></p> <p><i>Subsch. ID : 10</i>  <i>Det. descr. : PCDU: TC(8,4,112,5) switch</i>  <i>Low_BCR_EoC_Level on</i></p>	DC80D170	
6		Verify low level selected		Next Step: END
		Verify Telemetry <p style="text-align: right;"><b>EoC_Level_STS</b>                      <b>WMT1D565</b></p>	= Low (24.11V)	AND=ZAZ7H999
		<b>Battery end of charge (V<sub>EoC</sub>) Low levels:</b> <b>BCR3 24.11 V</b> <b>BCR2 24.02 V</b> <b>BCR1 23.91 V</b>		
<b>End of Procedure</b>				