LOU Baffle Parameters Update
File: H_CRP_SYS_LOUP.xls
Author: E. Picallo

# Procedure Summary

## Objectives

The objective of this procedure is to update the parameters of
the Herschel LOU Baffle decontamination:
- Temperature thresholds,
- Heater configuration.

## Summary of Constraints

## Spacecraft Configuration

**Start of Procedure**

**End of Procedure**

LOU Baffle parameters updated

## Reference File(s)

**Input Command Sequences**

**Output Command Sequences**

HRYLOUP1
HRYLOUP2

## Referenced Displays

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

## Configuration Control Information

| DATE | FOP ISSUE | VERSION | MODIFICATION DESCRIPTION | AUTHOR | SPR REF |
|---|---|---|---|---|---|
| 04/08/08 | 1 | 1 | Created | E. Picallo | |
| 08/01/09 | 2 | 2 | CDMU ASW V3.8 and BSW V2.4 alignment<br>LOU baffle thresholds refrence updated to [220,230]K according to H-P-2-ASP-ID-1418 issue 4 | E. Picallo | |

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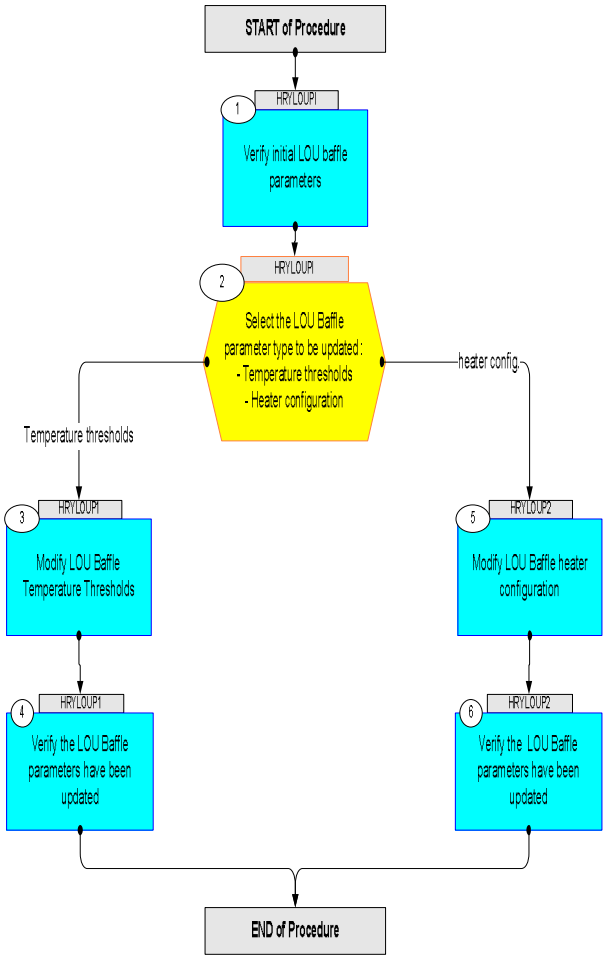
# Procedure Flowchart Overview



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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|---|---|---|---|---|---|
| | | **Beginning of Procedure** | | | |
| | HRYLOUPI | *TC Seq. Name :* HRYLOUPI ( LOU Parameter Update )<br>LOU Baffle Parameters Update<br><br>*TimeTag Type: N*<br>*Sub Schedule ID:* | | | |
| 1 | | Verify initial LOU baffle parameters | | Next Step: 2 | |
| | | **Call Procedure to report LOU Baffle Management function** | | | |
| | | H_FCP_SYS_LOUS Lou Baffle Management Status Report | | | |
| 2 | | Select the LOU Baffle parameter type to be updated :<br>- Temperature thresholds<br>- Heater configuration<br><br>type: [Switch] | | Next Step: Temperature thresholds 3 heater config. 5 | |
| | | End of Sequence | | | |
| | HRYLOUP1 | *TC Seq. Name :* HRYLOUP1 ( LOU Temp update )<br>LOU Baffle Temperature Tresholds update<br><br>*TimeTag Type: N*<br>*Sub Schedule ID:*<br><br>*Formal Parameter List :*<br>LouBafLowThr_C LouLoThr=<br>LouBafHiThr_C LouHiThr=<br>= | | | |
| 3 | | Modify LOU Baffle Temperature Thresholds | | Next Step: 4 | |
| | | Execute Telecommand<br>**ModifLouBaffleParams**<br><br>*Command Parameter(s) :*<br>**ModLouBafHeatCf** **DH156170**<br>**ModLouBafLowThr** **DH157170**<br>**ModLouBafHiThr** **DH158170**<br>**LouBafHeatCnfId** **DH159170**<br>**LouBafLowThr_C** **DH160170**<br>**LouBafHiThr_C** **DH161170**<br><br>*TC Control Flags :*<br>**GBM IL DSE**<br>**--Y -- ---**<br>*Subsch. ID : 10* | **DCP05170**<br><br>**No**<br>**Yes** (Def)<br>**Yes** (Def)<br>**LCL_59_61** (Def)<br>**LouLoThr**<br>**LouHiThr** | **TC** | |
| | | Det. descr. : TEMPLATE Modify Lou Baffle parameters<br>TC(8,4,118,3) | | | |
| | | **The default LOU baffle heating thresholds are:**<br>**Low Threshold: 220K = -53.15 C= 0x2120 RAW = 8480 RAW**<br>**High Threshold: 230K = -43.15C = 0x2270 RAW = 8816 RAW**<br><br>Note:The 12-bit acquired raw value is left aligned and stored into data-pool as a 16-bit data. | | | |

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| Step No. | Time | Activity/Remarks | TC/TLM | Display/ Branch | AIT Comment |
|---|---|---|---|---|---|
| 4 | | Verify the LOU Baffle parameters have been updated | | Next Step: END | |
| | | H_FCP_SYS_LOUS Lou Baffle Management Status Report | | | |
| | | | | | |
| | | End of Sequence | | | |
| | HRYLOUP2 | *TC Seq. Name :* HRYLOUP2 ( LOU heater update )<br>LOU Baffle heaters configuration update<br><br>*TimeTag Type: N*<br>*Sub Schedule ID:*<br><br>*Formal Parameter List :*<br>LouBafHeatCnfId LouHtr=<br>= | | | |
| 5 | | Modify LOU Baffle heater configuration | | Next Step: 6 | |
| | | Execute Telecommand **ModifLouBaffleParams**<br><br>*Command Parameter(s) :*<br>**ModLouBafHeatCf DH156170**<br>**ModLouBafLowThr DH157170**<br>**ModLouBafHiThr DH158170**<br>**LouBafHeatCnfId DH159170**<br>**LouBafLowThr_C DH160170**<br>**LouBafHiThr_C DH161170**<br><br>*TC Control Flags :*<br>**GBM IL DSE**<br>**--Y -- ---**<br>*Subsch. ID : 10* | **DCP05170**<br><br>**Yes** (Def)<br>**No**<br>**No**<br>**LouHtr**<br>**-53.15 degC**<br>**-43.15 degC** | **TC** | |
| | | Det. descr. : TEMPLATE Modify Lou Baffle parameters<br>TC(8,4,118,3) | | | |
| | | | | | |
| 6 | | Verify the LOU Baffle parameters have been updated | | Next Step: END | |
| | | H_FCP_SYS_LOUS Lou Baffle Management Status Report | | | |
| | | | | | |
| | | End of Sequence | | | |
| | | **End of Procedure** | | | |