



## Scope

Outline description of the sequence and procedures to be used during the SPIRE Warm Unit (WU) Checkout Procedure *before* integration with the Herschel EQM Payload Module at EADS Astrium in Ottobrun. The WU is the SPIRE Warm Electronics, which essentially consists of the DPU, DRCU and the power bench. The WU will be tested via the Central Checkout System (CCS) but without the SPIRE FPU or the FPU simulator. The pre-requisites for the test are briefly described followed by a table setting out the steps in the test sequence; the names of the procedures to be executed from CCS and the references to any manual procedures required; and the estimated duration of each part of the test.

## Change notes

## Applicable Documents

AD1 SPIRE Functional Test Specification - SPIRE-RAL-DOC-001652, Issue 1.3D, 16/02/2005

## Reference Documents

## Prerequisites for the Short Functional Test

- The SPIRE WU, consisting of the SPIRE Warm Electronics is not integrated in any way with the FPU.

## Instrument EGSE (I-EGSE) set up:

- SPIRE MIB installed on SCOS machine.
- SPIRE build of the HCSS and QLA installed
- CCS is up and running
- Scripts for the tests are available to the CCS

## Prerequisites for data analysis

- SCOS is running on I-EGSE
- QLA scripts ready for display of data and FITS output on I-EGSE

## Warm Unit Switch On sequence:

Step	Description	Procedure Name	Estimated Duration/minutes
1	Switch on DPU and boot	CCS-SPIRE-DPU-ON  Manual switch on of the DPU followed by execution of the boot up procedure	5
2	Switch on the DRCU	CCS-SPIRE-DRCU-ON  Manual switch on of the DRCU followed by start of periodic House Keeping telemetry generation	5



# SPIRE Technical Note

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SPIRE Warm Unit Checkout Procedure  
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## Outline Test sequence:

Step	Description	Procedure Name	Estimated Duration/minutes
1	SCU Science Packet Generation Check	CCS-FUNC-SCU-01	5
2	SCU Science data check	CCS-FUNC-SCU-02	5
3	SCU Test pattern test	CCS-FUNC-SCU-08	5
4	DCU Science Packet generation check	CCS-FUNC-DCU-01	5
5	DCU Science data check	CCS-FUNC-DCU-02	5
6	DCU Test pattern test	CCS-FUNC-DCU-03	5
7	DCU Photometer and Spectrometer LIAs switch on. (Only one procedure as the QM1 DRCU switches on both sets of LIAs)	CCS-FUNC-DCU-04-PS <b>May require manual intervention to reset the over current limiter on the SPIRE DRCU Power Bench</b>	10