



**HERSCHEL**

**SPIRE**

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## **DRCU Simulator Detachment from the AVM DPU Procedure**

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21-February-2007	Draft 0.1		First version emailed as word doc attachment without document number during AVM test at Astrium, Friedrichshafen.
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## 1 Scope of Document

This procedure is relevant to the EGSE set-up at Astrium, Friedrichshafen on 23.02.07. The disconnection of the DRCU Simulator PC and its harnesses from the AVM DPU is described.

## 2 Applicable Documents

AD1 Astrium Warm Unit Integration Test Procedure, HP-2-ASED-TP-0142 Issue 1.0.

## 3 ESD Safety

All relevant Astrium ESD Safety measures are to be taken when touching the DPU and it's cables to the Spacecraft and later DRCU Simulator.

## 4 Set-Up Description

- If the AVM DPU is connected to the DRCU via the connectors labelled J7, J8 and J9 by cables labelled CH1, CH2 and CH3, and it needs to be detached, carry out the following steps:
- J1 is connected to the Spacecraft power and is not touched (or changed in any way). J2 and J3 are connected to the Spacecraft via Mil bus cables and are not touched (or changed in any way).
- The spacecraft needs to be switched off.
- The DRCU Simulator PC and it's monitor's power supply cables are grounded using a MITU 4000 Isolating Transformer.
- When confirmation is given that the spacecraft is off,
  - Shutdown the DRCU Simulator PC,
  - switch off the Monitor,
  - switch off the transformer.
- Remove the power supply cables to the DRCU Simulator PC, Monitor and MITU 4000 Isolating Transformer.
- Disconnect the 3 cables from the DRCU Simulator PC to J7, J8 and J9 on the AVM DPU.
- If appropriate, re-connect the cables between the AVM DPU and the Spacecraft as per the set-up procedure prior to 21.02.2007.
- Pack the DRCU PC, Monitor, Harnesses and peripherals into it's transportation case in appropriate cleanroom bagging materials. (Lumalloy for the PC and Monitor). Or leave on a table in the cleanroom with a Lumalloy cover if repeating the tests soon.

End of detachment procedure.