



Minutes of Meeting

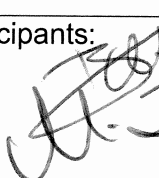
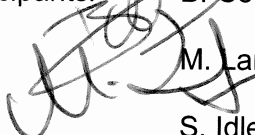

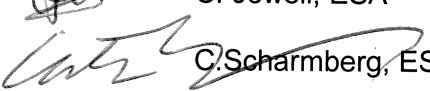
Date: 10.04.08

Herschel

Doc.-No.: HP-2-ASED-MN-1528

Meeting place: ESTEC	Chairman: Langfermann
Date/Time: 10.01.08 13:30	Secretary: Langfermann
Agenda dated:	Close of Meeting: 10.04.08 17:00

Subject: Cryo conditions for FPU testing in He-I

Participants:  B. Collaudin, TASF  M. Langfermann, ASED S. Idler ASED  C. Jewell, ESA  C. Scharnberg, ESA PACS, SPIRE, HIFI (partly)	Additional Distribution: ESA TAS-F PACS SPIRE HIFI
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 Brief-Minutes (except following sheets)

 Summary of Results of Sheets 2 till

Conclusion:

The requirements for thermal environment have been agreed for FPU testing in He-I together with instrument's responsible.



Reference	Results	Remarks
	<p>1. SFT's, EMC part 1 and S/C IST in He-I No constraint for He-I conditions from any FPU if temperatures are in the following range Level 0 (HTT upper bulkhead, T107): 4.2 – 6.5 K (4.2 – 7K at L0 I/F) Level 1 (vent line, T231 – 237): 4.2 – 15 K Level 2 (OBP, T254 T207): 5 – 30 K Level 3 (Spire J-FET, T246 T247): 5 - 50 K No constraint on thermal shield and CVV Cryo cover: 220 -260 K Temperatures might drift in the above range during test. S/C vertical and no movement during test.</p> <p>2. HIFI Diplexer tuning (part of SPT) No constraint for He-I conditions from HIFI if temperatures are in the following range Level 0 (HIFI I/F, T228): 4.2 – 5 K Level 1 (vent line, T231 – 237): 4.2 – 10 K Level 2 (OBP, T254 T207): 5 – 20 K Level 3: N/A No constraint on thermal shield and CVV Cryo cover: 220 -260 K Stability: 2 K/h on L2, 0.5 K/h on L1 and 0.2 K/h on L0. S/C vertical and no movement during test.</p> <p>3. PACS mechanism tuning No constraint for He-I conditions from PACS if temperatures are in the following range Level 0 (HTT upper bulkhead, T107): 4.2 – 15 K Level 1 (vent line, T231 – 237): <8.5 K Level 2 (OBP, T254 T207): 5 – 20 K</p>	



Reference	Results	Remarks
	<p>Level 3: N/A No constraint on thermal shield and CVV Cryo cover: 220 -260 K Stability: goal is L1 and 0.5 K per 8h on L0. To be clarified with PACS S/C 20° +y (+/- 1°) down and no movement during test.</p> <p>4. SMEC test for SPIRE No constraint for He-I conditions from SPIRE if temperatures are in the following range Level 0 (HTT upper bulkhead, T107): 4.2 – 6.5 K Level 1 (vent line, T231 – 237): 4.2 – 15 K Level 2 (OBP, T254 T207): 5 – 30 K Level 3: N/A No constraint on thermal shield and CVV Cryo cover: 220 -260 K Stability: 2 K/h on L1 only S/C tilted by 90° (+/- 0.5°) -Y downwards, Y axis vertical (+/- 0.5°) and no movement or mechanical activities during test.</p> <p>ASED proposes to perform a pre-test in order to verify I/F temperatures for both the HIFI diplexer and PACS mechanism tuning requirements but in vertical position only. But pre-test for SMEC.</p>	



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Reference	Results	Remarks



Action Items List

No.:	Description:	Due Date	Originator Comp./Pers.	Actionee Comp./Pers.	Source	Completion