EADS astrium

Minutes of Meeting

Herschel

Date:	10.04.08		
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.Scharmberg, 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 environmant have been agreed for FPU testing in He-I together with instrument's responsible.

Reference	Results	Remarks
	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. **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. **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	

Reference	Results	Remarks
	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. **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.** 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.	

Reference	Results	Remarks

Action Items List

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