

## SPIRE-ALC-COM-001633

---

**From:** Bernard.Collaudin@space.alcatel.fr  
**Sent:** 24 April 2003 14:59  
**To:** ohb@mpe.mpg.de; pacs@mpe.mpg.de; C.K.Wafelbakker@sron.nl; HIFI-Prof@sron.nl; E.C.Sawyer@rl.ac.uk; J.A.Long@rl.ac.uk; charra@ias.fr; valerie.demuyt@ias.u-psud.fr; butler@tesre.bo.cnr.it; taddei@tesre.bo.cnr.it  
**Cc:** Jean-Philippe.Chambelland@space.alcatel.fr; Guy.Dobrovik@space.alcatel.fr; Ludovic.Ouchet@space.alcatel.fr; Pascal.Rideau@space.alcatel.fr; gerald.crone@esa.int; Claudi.damasio@esa.int  
**Subject:** Instruments warm units dissipation, BOL - EOL / Thermal control

This mail ref: H-P-ASP-LT-3047

Sir,

In order to verify the design of the Herschel & Planck SVM Thermal control, we would need to identify if the dissipations of the instruments warm units is significantly different between Beginning of life and End of Life.

Currently only End of Life Power consumption & Power dissipations are identified in IID-B (as worst case for power demand).

1: Could you inform us about the difference of the instrument warm units dissipation between Beginning of life & End of life (%or W). (reference is PDR version of IID-B)

2: if the difference (EOL-BOL)/EOL is larger than 10%, we would need a detailed EOL power dissipation budget, to be included in IID-B, to verify the thermal control et BOL. Can you provide tjis information.

Thank you.

Bernard

note: LFI shall include also the sorption cooler.

Bernard COLLAUDIN- Herschel Planck Instruments interfaces

- Alcatel Space - Space Camp - V04-113 - 100, Bd du midi, BP 99 - 06156

Cannes la Bocca Cedex- France

Tel:+(33)(0) 4 92 92 30 21

Fax: +(33)(0) 4 92 92 30 10

Mob: +(33)(0)6 18

42 78 35

email: bernard.collaudin@space.alcatel.fr

ALCATEL SPACE