

Long, JA (Judy)

From: King, KJ (Ken)
Sent: 16 July 2001 08:27
To: Long, JA (Judy)
Subject: FW: Urgent: Consultation needed on Herschel instrument vibration levels

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-----Original Message-----

From: Matt Griffin [mailto:Matt.Griffin@astro.cf.ac.uk]
Sent: 13 July 2001 18:24
To: Thomas Passvogel; Bernard Collaudin
Cc: Gary Parks; Gerald Lilienthal; Jamie Bock; Berend Winter; Bruce Swinyard; Eric Sawyer; Ken King
Subject: Urgent: Consultation needed on Herschel instrument vibration levels

Hello Thomas, Bernard,

I would like to consult with you as a matter of urgency on the question of the random vibration loads applying to the Herschel FPU. This has come up as a major issue in connection with the design and qualification of the SPIRE bolometer array units. We are now faced with a dilemma in that working to the existing figures will inevitably lead to substantial cost and schedule impacts. Very quick clarification is needed on this to avoid a major schedule slip and further potential funding complications arising from a NASA review of the detector programme at the end of this month. This is an issue that we must address on a timescale much shorter than what is consistent with Alcatel's initial mechanical analysis of the system (results of which will not be available until around September/October, I understand).

I suspect that this general problem is not unique to SPIRE, and that the other instrument teams already or will soon find themselves in a similar situation. So in the interest of the mission overall, I believe we should all try to address it with the highest priority.

I propose the following course of action:

- * SPIRE will compile a briefing note on the issue, outlining the technical analysis and the programmatic/schedule implications - to be available by Tuesday.
- * A Videocon (RAL/JPL/ESA/Alcatel) to be arranged as soon as possible afterwards to discuss the issue and work towards an acceptable solution. Should that be problematic to arrange, then we would propose a meeting at ESTEC as soon as it can be arranged.

I will try to call you on Monday in any case to fill you in on some more details.

Cheers,

Matt

I have moved to Cardiff University: see below for new contact details

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