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DE / FROM: Ph. MARTIN

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Cc: E. HOELZLE,

Cc: P. RIDEAU, B. COLLAUDIN, G. LUND,
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 D. DE CHAMBURE; G. PILBRATT
MPE-GARCHING - PACS
 N. GEIS

Objet / Subject: H-PLM Alignment Requirements for PACS

- Ref.: 1. H-P-ASPI-MN-2299 dated 02-03/12/02 "PACS interface meeting"
 2. H-P-ASPI-LT-2003 dated 18/10/02 " Optical Performance Sensitivity to a 5000ppm launcher contamination"

Dear Albrecht and Hans

As you know, the current self emission budget is higher than what was asked by the instruments.

In order us to have a better understanding of the situation, and alsor to fulfil an instrument need (cf. ref 1, AI4), we kindly ask you to build and maintain in the frame of the Herschel Optical System Working Group 3 kinds of budgets:

- The first kind shall show, for each contributor, the maximum foreseen emission onto the detectors (consider maximum temperature and emissivity), as well as the total sum
- The second shall show, for each contributor, the minimum foreseen emission onto the detectors (consider minimum temperature and emissivity.) as well as the total sum
- The third kind shall show, for each contributor, the typical knowledge accuracy of the emission contribution, as well as the total sum

The units shall be comprehensive: W/m2/µm for example.

Nota:

For end-of-life contamination, you shall consider the following hypotheses:

	Worst case	Best case	Knowledge accuracy
Obscuration ratio/self emission	7200ppm/0.8	1500ppm/0.2	-0/+5300ppm/0.8

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Concerning the telescope emission, we kindly ask ESA to give us their feeling on best case emissivity and emissivity knowledge of the telescope optical coating.
 This closes action AI4 of ref 1

Best regards
 Philippe Martin