

SPIRE-RAL-COM-001870

From: Swinyard, BM (Bruce)
Sent: 24 October 2003 10:39
To: 'Hoelzle, Edgar ED171'; Horst ED516 Faas (E-mail)
Cc: 'Carsten.Scharmberg@esa.int'; 'Daniel.de.Chambure@esa.int'; Delderfield, J (John) ; Sawyer, EC (Eric) ; Long, JA (Judy) ; Richards, AG (Tony)
Subject: Re Drawing HP-2-ASED-ID-0063-02

Hi Edgar and Horst,
I got a fax asking us to review this drawing (consider this a fax in reply!)

First I have to apologise as I realise that the heights of the baffles have moved around somewhat compared to when we did the first analysis of the beam shape and clearances (referenced as SPIRE-RAL-NOT-001242 on the drawing). The values we used are clearly given in the note and are taken from an e-mail from Edgar in March 2002 (reproduced below). If we have been officially informed that the baffles have moved compared to these values I must have missed the importance and we did not re-do the analysis.

O.k. that said I have a couple of concerns about the drawing as shown.

- i) The diameters of the circular apertures are not shown - are they still 280 mm?
- ii) Did ASED re-compute the beam sizes for the different height baffles compared to the values given in the original RAL note? If so how? And can we see the analysis, if not then the dimensions will be wrong.

If you can confirm the diameter of the circular aperture we will redo the analysis to ensure the beam clearance is correct but this will take a couple of weeks to get done.

Regards Bruce

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Previous message

From: Richards, AG (Tony)
Sent: 24 October 2003 09:43
To: Swinyard, BM (Bruce)
Subject: FW: Axial positions for footprint analysis

> -----Original Message-----
> From: Hoelzle, Edgar ED171 [mailto:Edgar.Hoelzle@astrium-space.com]
> Sent: 18 March 2002 15:49
> To: 'A.G.Richards@rl.ac.uk'; 'C.K.Wafelbakker@sron.nl';
> 'ngeis@mpe.mpg.de'
> Cc: 'Daniel.de.Chambure@esa.int';
> 'Philippe.P.Martin@space.alcatel.fr';
> TOULEMONT, Yves
> Subject: Axial positions for footprint analysis
>
>
> Dear colleagues,
>
> please find enclosed the axial positions of various HPLM
> elements for your
> footprint analysis: With the optical bench
> mounting plane used as reference, in a sequence top - down
> the values are:
>
> M2 vertex: X = 2839.998 mm
>
> M1 vertex: X = 1252.0 mm
>
> CVV aperture: X = 729.0 mm, Dia 280.0 mm
>
> Heat shield 3: X = 603.61 mm, Dia = 280 mm
>
> Heat shield 2: X = 571.61 mm, Dia = 280 mm
>
> Heat shield 1: X = 536.61 mm, Dia = 280 mm
>
> Instrument shield: X = 505.81 mm, Dia = 2.80 mm
>
> Telescope focus X = 202.0 mm
>
> Opt. bench mountg. plane: X = 0.0 mm
>
>
> Should any inconsistencies arise, please notify us immediately.
>
> With this mail we close action item No. 8 of the Alignment
> Meeting held on
> March 11th, 2002 at ESTEC.
> Formal close-out by fax will follow by end of this week.
>
> I have to ask Yves Toulemont to check the telescope parameters and
> eventually correct these should they have been changed recently:
> Separation M1 - M2 vertices: 1587.998 mm
> separation M1 vertex - focus: 1050 mm
>
>

> Best regards
>
> Edgar Hoelzle
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>
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