

Subject: Re: Weekly Suspension Meeting June 24th 2003

To All:

Our fearless telecon leader, Janeen, is still ill. I hope she recovers soon.

I thought today it might be good to status efforts to resolve open questions with regard to firming up the quad requirements, design and program plan, in advance of next week's visit by Justin and Caroline to MIT and CIT. To that end, I sketched below the principal elements as I see them -- no doubt others will find some additional points. This might serve as a frame work for our discussions next week, though I'm open to other suggestions.

quad sus design paper:

<http://www.ligo.caltech.edu/docs/P/P020001-A/P020001-A.pdf>

sus (quad) conceptual design:

<http://www.ligo.caltech.edu/docs/T/T010103-01.pdf>

- quad design updates from Norna, Calum, et. al.?
- quad structure design, modal analysis and mass properties estimate (Calum, Janeen)
- quad performance with reduced mass chain (Norna)
- eddy current damping design and mass properties estimate
- tablecloth design and mass properties estimate
- catcher design and mass properties estimate
- others?

cavity optics sus requirements:

<http://www.ligo.caltech.edu/docs/T/T010007-01/T010007-01.pdf>

- lacks sufficient definition of interface requirements:
 - system layout derived requirements or potential impacts on FM/TM, ITM/phase plate, etc. (Coyne)
 - alignment references (mechanical and optical) (Coyne)
- lacks sufficient definition of functional requirements or features (i.e. non-performance requirements), in particular:
 - position & angle adjustment requirement from the system level (range, precision) (Coyne)

Derived requirements and design specification for the quad?

- a document in preparation by UG for RAL & UB in particular?

sus universal requirements:

<http://www.ligo.caltech.edu/docs/T/T000053-01.pdf>

- needs work (Coyne, Janeen)

schedule:

latest which must be compared with the UK team's schedule & funding profile:

M020121-E2 (not yet posted in the DCC)

Interface Control:

- define how it is done in LIGO (Coyne) and show examples

Dennis

At 03:14 PM 6/23/2003 -0700, ctorrie wrote:

Dear All,

Unless you hear differently I think it is safe to assume we have a meeting tomorrow.
Tuesday, June 24th, at 9am Pacific/Noon Eastern/5pm UK.

<http://www.ligo.caltech.edu/SUS.html>

Also at this point I will assume that AT&T know about it and that the instructions are the same as usual: -

Glasgow people will be called at 44 141 330 5880

Justin will be called at 44 123 544 5297

US callers dial 1 888-422-7101, participant code 433 950, host code 927 161

Please send or bring agenda items prior to the meeting.

Last weeks notes are at: -

http://www.ligo.caltech.edu/~ctorrie/SUS_MEETING/MEETING_NOTES/SUS_Notes_17JUNE2003.pdf
